

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

Rasp Mine 2022 Independent Environmental Audit Report

**Broken Hill Operations Pty Ltd, Rasp Mine
Broken Hill, NSW**

Project Approval 07_0018 (Mod 9)

7th – 11th March 2022



Prepared for
**NSW Government
Department of Planning and Environment**

Report Version

Version	Date	Prepared by
Final Report	1 June 2022	Kurt Hammerschmid B.App.Sc. (Chem), M.Sc., MEIANZ Lead / Principal Auditor Integrated Environmental Systems Pty Ltd PO Box 662 Paddington NSW 2021 Adam Jones B.Ec. LLB, B.Com, GradCertEnv Lawyer Suite 503, 9-13 Bronte Road Bondi Junction NSW 2022

Document History

Version	Date	Description
First Draft	11 May 2022	Draft Report for BHOP's review
Second Draft	25 May 2022	Draft Report incorporating BHOP's feedback and BHOP's draft responses in Table 2
Final Report	1 June 2022	Final Report including BHOP's final responses in Table 2

Cover page photos, left to right: Kintore Pit (7 March 2022), ROM Pad (9 March 2022), TSF2 Embankment 2 (9 March 2022)

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Issued by:  (Kurt Hammerschmid)

Date: 1 June 2022

Independent Audit Certification Form	
Development Name	Rasp Mine
Development Consent No.	Consolidated version of Project Approval 07_0018 (Mod 9) as approved on 23 December 2021 by the delegate of the NSW Minister for Planning
Description of Development	Mining for minerals and related activities
Development Address	130 Eyre Street, Broken Hill NSW 2880
Operator	Broken Hill Operations Pty Ltd
Operator Address	130 Eyre Street, Broken Hill NSW 2880
Independent Audit	
Title of Audit Report	Rasp Mine 2022 Independent Environmental Audit Report
<p><i>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:</i></p> <ul style="list-style-type: none"> • <i>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;</i> • <i>The findings of the audit are reported truthfully, accurately and completely;</i> • <i>I have exercised due diligence and professional judgement in conducting the audit;</i> • <i>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> • <i>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> • <i>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);</i> • <i>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> • <i>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.</i> <p>Note:</p> <p>a) <i>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.</i></p> <p>b) <i>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).</i></p>	
Signature	
Name of Lead / Principal Auditor	Kurt Hammerschmid (Lead / Principal Auditor)
Address	PO Box 662, Paddington NSW 2021
Email Address	hammer@cdi.com.au
Date	1 June 2022

Independent Environmental Audit – Scope and Limitations

The scope of this independent environmental audit was limited to reviewing how the Proponent (Broken Hill Operations Pty Ltd, a wholly-owned subsidiary of CBH Resources Limited) at its Rasp Mine operations (located at 130 Eyre Street, Broken Hill NSW 2880) is maintaining environmental compliance against applicable conditions specified in:

- the consolidated version of Project Approval 07_0018 (Mod 9) as approved on 23 December 2021 (under the former Part 3A of the Environmental Planning and Assessment Act 1979, which continues as an approval of a transitional Part 3A project under Schedule 6A of that Act) by the delegate of the NSW Minister for Planning ('Project Approval' or 'PA');
- Environment Protection Licence Number 12559 as at 4 October 2019 ('EPL'); and
- Consolidated Mining Lease Number 7 as renewed on 17 January 2007 ('CML7').

The period covered by this independent environmental audit ('audit period') is from 16 February 2019 (the day after the last day of on-site attendance referred to in the previous audit report of 9 March 2016) to 11 March 2022 (the last day of the on-site component of this audit).

Unless otherwise indicated, in this audit report a reference to 'Broken Hill Operations', 'BHOP Rasp Mine', 'BHOP', 'CBH Resources Limited', 'CBH Resources' or 'CBH', is a reference to the Proponent.

This independent environmental audit was conducted by: a) direct verification of compliance against relevant conditions in the field (except underground operations); and b) 'sampling' a range of the documents, records and monitoring data associated with the mine and related activities. The nature of sampling during any form of compliance audit is such that it may not necessarily identify everything that the operation is, or is not doing, in relation to an individual condition of the Project Approval, EPL or CML7.

This independent environmental audit and associated audit report was commissioned by CBH Resources to directly meet conditions 7 and 8 in Schedule 4 of the Project Approval. No other warranty, expressed or implied, is made as to the professional advice indicated in this report. Note that it may not contain sufficient information for the purposes of other parties or for other uses.

The content of this report applies only to matters which were available to and/or evident to the Auditors at the time of this Independent Environmental Audit and within the scope of the audit. The status of environmental compliance can change in a limited time, which may be important if the report is used after any protracted delay.

The content of this report is based on the observations made during field inspections (excluding underground operations) and the associated documents and records reviewed, that were provided by BHOP during the audit. Field inspection locations were both targeted in accordance with relevant conditions (of the Project Approval, EPL and CML7) and also selected at random by the Auditors to ensure that a representative sample of field activities could be inspected/audited against relevant conditions.

Environmental compliance audits such as this independent environment audit are typically based on the selective testing of the information and data being examined. Non-compliances may exist and not be detected. An environmental compliance audit is not designed to identify and detect all instances of non-compliance against the Project Approval, EPL and CML7 conditions, as it is not performed continuously throughout the audit period. The findings and comments expressed in this audit report have been formed and are based on the above limitations.

No analytical samples were collected during this audit to verify any former or current monitoring programs in place or data collected.

This audit report does not, and does not purport to, give legal advice on the actual or potential liabilities of the operation, or draw conclusions as to whether any particular circumstances constitute a breach of relevant legislation. Only qualified legal practitioners who are retained to provide legal advice can provide this advice.

Broken Hill Operations Pty Ltd, Rasp Mine – Independent Environmental Audit – Details

Operation Audited:	Broken Hill Operations Pty Ltd (BHOP), Rasp Mine, Broken Hill NSW 2880
Dates of Auditors' on-site attendance:	7 th – 11 th March 2022 (5 days)
BHOP Audit Contact:	Devon Roberts – Senior Environmental Advisor
Lead Auditor:	Kurt Hammerschmid B.App.Sc. (Chem), M.Sc., MEIANZ Lead / Principal Auditor Integrated Environmental Systems Pty Ltd PO Box 662, Paddington NSW 2021
Auditor:	Adam Jones B.Ec. LLB, B.Com, GradCertEnv Lawyer Suite 503, 9-13 Bronte Road, Bondi Junction NSW 2022
Scope of the Audit:	<ol style="list-style-type: none"> The scope of the audit was to conduct an independent environmental audit and provide a subsequent report of findings as required by Project Approval Schedule 4, conditions 7 and 8. The scope of the audit included all relevant conditions (but excluding Definitions and Appendices unless otherwise specified in this report) specified in Project Approval Number 07_0018 (Mod 9) (approved by the delegate of the NSW Minister for Planning on 23 December 2021), Environment Protection Licence Number 12559 as at 4 October 2019 (issued by the NSW Environment Protection Authority), and Consolidated Mining Lease Number 7 as renewed on 17 January 2007. This audit was limited to the site of the BHOP Rasp Mine at 130 Eyre Street, Broken Hill NSW 2880. The audit period for this audit was from 16 February 2019 (the day after the last day of on-site attendance at the previous audit) to 11 March 2022 (the last day of on-site attendance at this audit).
BHOP personnel interviewed during the Audit:	<ul style="list-style-type: none"> Giorgio Dall'Armi – General Manager Joel Sulicich – Manager Health, Safety, Environment and Training Carlos Vanegas – Manager Metallurgy Eamonn Dare – Technical Services Superintendent Devon Roberts – Senior Environmental Advisor Jacinta Clark – Environmental Graduate Jack Picton – Emergency Services Officer Stewart Collins – Reliability Specialist
BHOP personnel in attendance at Opening Meeting with Auditors on 7th March 2022:	<ul style="list-style-type: none"> Giorgio Dall'Armi – General Manager Joel Sulicich – Manager Health, Safety, Environment and Training Carlos Vanegas – Manager Metallurgy Devon Roberts – Senior Environmental Advisor Jacinta Clark – Environmental Graduate
BHOP personnel in attendance at Closing Meeting with Auditors on 11th March 2022:	<ul style="list-style-type: none"> Giorgio Dall'Armi – General Manager Jordan Allan – Mine Manager Joel Sulicich – Manager Health, Safety, Environment and Training Carlos Vanegas – Manager Metallurgy Eamonn Dare – Technical Services Superintendent Devon Roberts – Senior Environmental Advisor Jacinta Clark – Environmental Graduate

<p>BHOP Rasp Mine Operational Areas visited/inspected between 7th and 11th March 2022 (underground operations were not inspected):</p>	<ul style="list-style-type: none"> • Selected water use and storage facilities in water management system (including Process Water Pond, S22 Dam; S8, S9 and S17 water storage facilities; S49 Ryan Street Dam) • Light vehicle and heavy vehicle washbays • Main workshop and surrounding area • Bulk surface fuel storage facilities • Crusher enclosure • Crusher Baghouse • Enclosed conveyors and transfer points • Workshop (including maintenance planning office) • Mill/processing plant • Concentrate container loading shed • Rail loadout area • Concentrate container storage area • TSF1 and TSF2 (including TSF2 Embankment 2) • TSF2 spillway • Waste rock dump • ROM pad • Concrete batching plant • Kintore Pit and decline • Carparks and B Double Truck Waiting Area • Holten Drive access gate area • Representative HVAS units, TEOM units and dust deposition gauges • On-site meteorological (weather) station • Representative noise and blast vibration monitors
<p>Mill/processing plant operational status during field inspections on 7th, 9th and 10th March 2022:</p>	<p>7th March 2022 – operational (i.e. in production) 9th and 10th March 2022 – not operational (i.e. not in production)</p>
<p>Weather conditions during field inspections on 7th, 9th and 10th March 2022:</p>	<p>Generally sunny, mild and calm</p>

Executive Summary

Overview

This environmental compliance audit of BHOP's Rasp Mine in Broken Hill was conducted by the Auditors with an on-site attendance over 5 days from 7th to 11th March 2022. BHOP provided requested additional information after the on-site attendance to assist the auditors in preparing this audit report.

The scope of this independent environmental audit was limited to BHOP's Rasp Mine site for the audit period from 16 February 2019 to 11 March 2022.

This audit included all relevant conditions (but excluding definitions and appendices unless otherwise specified in this report) specified in:

- the consolidated version of Project Approval 07_0018 (Mod 9) as approved on 23 December 2021 (under the former Part 3A of the Environmental Planning and Assessment Act 1979, which continues as an approval of a transitional Part 3A project under Schedule 6A of that Act) by the delegate of the NSW Minister for Planning ('Project Approval' or 'PA');
- Environment Protection Licence Number 12559 as at 4 October 2019, issued by the NSW Environment Protection Authority ('EPL'); and
- Consolidated Mining Lease Number 7 as renewed on 17 January 2007 ('CML7').

This audit did not include any legislative or regulatory requirements other than the conditions of the Project Approval, EPL and CML7.

The conduct of this audit included the sighting of environmental and operational documentation, records, monitoring data, operating and field conditions relating to the operation of the BHOP Rasp Mine, and interviewing relevant BHOP environmental and operational personnel.

From the original Project Approval dated 31 January 2011 until 11 March 2022, there were eight approved Modifications to the Project Approval, and one modification (Mod 6) which was under assessment, being:

- Mod 1 (March 2012) – Ventilation Shaft;
- Mod 2 (August 2014) – 24 Hour Primary Crusher;
- Mod 3 (March 2015) – Block 7 Extension;
- Mod 4 (September 2017) – Tailings Storage Facility;
- Mod 5 (November 2018) – Cement Silo and Warehouse Extension;
- Mod 6 – New Tailing Storage Facility – under assessment (i.e. not determined as of 11 March 2022);
- Mod 7 (July 2019) – Additional Crushing and Screening;
- Mod 8 (April 2021) – Underground Mining Extension; and
- Mod 9 (December 2021) – Extension of Underground Exploration.

The delegate of the NSW Minister for Planning approved BHOP's Mod 6 application on 16 March 2022, which post-dates the audit period of 16 February 2019 to 11 March 2022. Hence, the Mod 6 amendments to the Project Approval were not within the scope of this audit.

Context

This audit report is the fourth independent environmental audit report completed at the BHOP Rasp Mine and submitted to the NSW Department of Planning and Environment ('DPE') under Project Approval 07_0018 to demonstrate the operation's existing level of statutory environmental compliance.

This independent environmental audit is intended to satisfy Project Approval Schedule 4, conditions 7 and 8.

This independent environmental audit essentially targeted and audited completed work and on-site field practices associated with the BHOP Rasp Mine within the last three years (i.e. since the completion of the previous on-site independent environmental audit by Integrated Environmental Systems Pty Ltd in February 2019).

The Auditors' assessment of BHOP's compliance against the conditions of the Project Approval excluded BHOP's Mod 6 application, which had not been determined as of 11 March 2022 (the end of the audit period).

The nominee of the Secretary of the DPE endorsed the appointment of the audit team (specifically, the Lead Auditor, Kurt Hammerschmid) by letter of 10 December 2021. The DPE's letter of 10 December 2021 is reproduced in Appendix 1 of this audit report.

On BHOP's request, the nominee of the Secretary of the DPE granted an extension of time to conduct the audit (beyond the required three-yearly interval between independent environmental audits) until 7 March 2022. The DPE's letter of 18 January 2022 is reproduced in Appendix 1 of this audit report.

On BHOP's request, the nominee of the Secretary of the DPE granted an extension of time (as permitted under Project Approval Schedule 4, condition 8) until 6 June 2022, for BHOP to submit this audit report and BHOP's response to recommendations for the Rasp Mine. The DPE's letter of 22 March 2022 is reproduced in Appendix 1 of this audit report.

Consultation letters were sent to the key agencies and other stakeholders prior to the Auditors' on-site attendance. The consultation letters and responses received are reproduced in Appendix 2 of this audit report. The Auditors have considered these responses from the agencies and other stakeholders in conducting the audit and preparing this audit report.

A discussion of actions taken by BHOP in response to the previous independent environmental audit in February 2019 is presented in Appendix 3 of this audit report.

A discussion of incidents and complaints, and BHOP's performance in relation to response and management of these incidents and complaints, is presented in Appendix 4 of this audit report.

Overall Findings

The overall findings of this independent environmental audit of the BHOP Rasp Mine in March 2022 are as follows:

- It is the Lead Auditor's opinion that at the time of this March 2022 audit, BHOP has implemented all reasonable and feasible measures to prevent and/or minimise material harm to the environment that may result from the construction, operation or rehabilitation of the project.
- BHOP does not utilise a ISO14001 Environmental Management System or an Integrated Management System, but relies on an Environmental Management Strategy which provides a suitable level of context for the formal system(s) and processes utilised by the operation.
- No extensive systemic (i.e. widespread) issues of environmental concern were observed during field inspections conducted during this March 2022 audit.
- The environmental performance and operational control demonstrated by BHOP Rasp Mine in the field was observed to be maintained to a high standard across most areas of the operation during this March 2022 audit.
- A total of 174 conditions across the Project Approval, EPL and CML7 were audited. As recorded in Table 1 of this audit report, this audit identified 125 'compliant' findings, 3 'not verified' findings, 29 'non-compliant' findings (consisting of 29 'low' risk level, 0 'medium' risk level, 0 'high' risk level), 7 'administrative non-compliance' findings, 4 'not triggered' findings, and 6 'notes'.
- BHOP's level of compliance with the applicable conditions (i.e. all conditions except those which were 'not triggered') in each instrument was as follows:
 - BHOP was compliant with 46 of the 67 applicable Project Approval conditions;
 - BHOP was compliant with 55 of the 75 applicable EPL conditions;
 - BHOP was compliant with 24 of the 28 applicable CML7 conditions.
- This audit report includes 123 observations. Observations are provided for BHOP's consideration to improve levels of compliance and enable continual improvement to be demonstrated in statutory compliance, environmental management and environmental practices across the operation. BHOP is encouraged to review all observations as recorded in Table 2 of this audit report.

Audit Findings – Non-Compliances

The non-compliances identified during this March 2022 audit are set out below and are also described in Table 2 of this audit report. Coloured text in the condition title indicates the relevant Modification to the Project Approval, as noted immediately above Table 2.

Project Approval 07_0018 (Mod 9) as at 23 December 2021

Schedule 2 – Condition 2 – Terms of Approval – Non-compliant (low risk) – On 29 April 2020, BHOP received an official caution from the DPE for failing to carry out the project in general accordance with the relevant EA (“Rasp Mine Environmental Assessment Modification 4, Concrete Batching Plant Blackwood Pit TSF2 Extension dated April 2017”), by using fill material with a lead concentration higher than 0.5% when constructing the TSF2 Embankments.

Schedule 2 – Condition 8 – Structural Adequacy – Administrative non-compliance – During this March 2022 audit, BHOP was unable to provide documented evidence (e.g. an occupation certificate or a statement from a private certifier) that the following structures were constructed in accordance with relevant requirements of the Building Code of Australia: a) Concrete Batching Plant; b) Cement Silo; and c) Warehouse Extension.

Schedule 2 – Condition 10 – Operation of Plant and Equipment – Non-compliant (low risk) – On infrequent occasions during the audit period, plant and equipment used on site was not maintained or operated in accordance with paragraphs (a) and (b) of this condition, including:

- (a) Torn filter bags in the Crusher Baghouse had not been detected prior to scheduled point source air emissions testing by Assured Environmental on 9 December 2020 (refer to section 8 in the 2020 AEMR and section 10 of the 2020-2021 Annual Review).
- (b) Failure to monitor a blast at V2 Hire Yard on 19 April 2019 due to operator error in initiating the recording function on the spare blast monitor (refer to section 8 in the 2019 AEMR and section 10 of the 2019-2020 Annual Review).

Schedule 3 – Condition 3 – Air Quality and Greenhouse Gas – Air Quality Criteria – Non-compliant (low risk) – As noted in section 3.3.2 of BHOP’s Annual Environmental Management Reports (AEMRs):

- “There were fourteen occasions where the monitoring location exceeded the depositional dust level of 4 g/m²/month limit” (2019 AEMR);
- “There were fifteen occasions where the monitoring location exceeded the depositional dust level of 4 g/m²/month limit” (2020 AEMR); and
- “There were three occasions where the monitoring location exceeded the depositional dust level of 4 g/m²/month limit” (2021 AEMR).

Schedule 3 – Condition 4 – Air Quality and Greenhouse Gas – Air Quality Criteria – Non-compliant (low risk) – In respect of quarterly air emissions testing conducted at the Crusher Baghouse (EPL2) on 9 December 2020, there were exceedances of the discharge criteria in Table 5 of this condition, for both TSP and Type 1 and 2 substances.

Schedule 3 – Condition 11 – Air Quality and Greenhouse Gas – Air Quality Management Plan – Non-compliant (low risk) – As of March 2022:

- BHOP has not implemented some aspects of the Air Quality Management Plan (AQMP) issued on 25 June 2019, including:
 - the water spray system on TSF2 was not installed and tested by the intended date of 31 March 2021 referred to in section 10.5.1 of the AQMP – it is acknowledged that achieving this installation and testing date was dependent on construction of the TSF2 Embankments being completed by the end of October 2019 when in fact, completion occurred on 8 July 2021; and
 - there is no functional water spray system on the ROM Pad – Table B1 in the AQMP includes the following control action for ‘ROM Stockpile Wind Erosion’: “Water sprays will be mounted on the ROM stockpile wind breaks and directed at stockpiles and haul truck dumping areas.”
- The content of the AQMP does not satisfy the following requirements in paragraphs (e), (k) and (l) of this condition:
 - (e) The AQMP does not describe procedures to review and refine the reactive management triggers for wind speed and dust concentrations;
 - (k) There are no protocols in the AQMP for regular maintenance of plant and equipment to minimise the potential for elevated dust generation, leaks and fugitive emissions; and
 - (l) There is no contingency plan in the AQMP should an incident, upset or other initiating factor lead to elevated dust impacts, whether above normal operating conditions or above environmental performance goals/limits.

Schedule 3 – Condition 14 – Lead Awareness and Public Health – Updated Human Health Risk Assessment – Administrative non-compliance – During this March 2022 audit, BHOP was unable to provide evidence of compliance against paragraphs (a) and (c) of this condition as follows:

- (a) BHOP was unable to provide evidence that the preparer of the 2020 HHRA report; Tarah Hagen, MSc, DABT, RACTRA, was endorsed by the Secretary as a suitably qualified expert; and
- (c) BHOP was unable to provide evidence that the HHRA report had been submitted to the Secretary, EPA and Western NSW Local Health District within one month of its completion.

Schedule 3 – Condition 18 – Noise and Vibration – Blasting Limits – Non-compliant (low risk) – During the audit period, BHOP exceeded the allowable 5% above 3mm/s limit (for ground vibration) of the total number of blasts over a 12 month period at Block 7 (V5 blast monitor).

Schedule 3 – Condition 21 – Soil and Water – Non-compliant (low risk) – On 10 March 2022, minor seepage was observed from the S49 Ryan Street Dam adjacent to and across the site boundary.

Schedule 3 – Condition 23 – Soil and Water – Water Management Plan – Non-compliant (low risk) – In relation to paragraph (c) of this condition:

- The June 2019 Site Water Management Plan (SWMP) does not include the required baseline data on surface water flows and quality in creeks and other waterbodies that could potentially be affected by the project. Section 3.3 presents local temperature and rainfall data, but does not relate this data to the potential quantity or quality of surface water flows at the two off-site monitoring locations (i.e. upstream of Acacia Creek, and within Stephens Creek) referred to in section 8.2 (EPL monitoring points 35 and 36). It is noted that section 12.5 of the previous SWMP (Golder Associates, dated 30 April 2012, report number 097626108-007-R-Rev11) states that “catchment water quality is expected to contain concentrations of lead and other heavy metals above the conventional water quality guideline limits...”.
- The SWMP does not include surface water and stream health impact assessment criteria including trigger levels for investigating any potentially adverse surface water impacts. Section 8.4 describes contingency measures (pumping to lower the water level in Horwood Dam) if the measured water quality in Horwood Dam is considered to be a risk to the receiving environment (such as the downstream creek and Stephens Creek Reservoir), and section 10 includes a surface water quality TARP, with trigger levels referable to groundwater water quality results in August 2011 at Shaft 7. However, sections 8.4 and 10 do not define impact assessment criteria at the two off-site monitoring locations referred to in section 8.2; and
- The SWMP does not identify whether there are potential impacts of surface water flows from the site, on off-site water users, and if potential impacts are identified, include a program to monitor and assess those potential impacts. It is noted that Section 12.1 of the previous Site Water Management Plan (dated 30 April 2012, Golder Associates, report number 097626108-007-R-Rev11) stated: “It is predicted that overflows during extreme rainfall events greater than the 1 in 100 year storm event, will not directly affect the hydrology of the local catchment.”

Schedule 3 – Condition 32 – Waste – Non-compliant (low risk) – As of March 2022, although most waste products are segregated at source, BHOP has not developed a formal program to proactively review, identify and implement additional programs to minimise waste going to landfill and the volume of waste being recycled.

Schedule 3 – Condition 33 – Waste – Non-compliant (low risk) – In relation to paragraphs (d) and (e) of this condition, as of March 2022:

- (d) The Waste Management Plan does not describe and justify the proposed strategy for disposing of mineral waste material.
- (e) As of March 2022, there was insufficient evidence that BHOP has implemented ‘all’ of the measures described in section 3.6 (Monitoring) and section 3.7 (Audits) of the Waste Management Plan. For example:
 - there was no evidence of development of a comprehensive waste inventory (fifth dot point in section 3.6); and
 - there was no evidence of waste management inspections (section 3.7) being documented and retained on file.

Schedule 3 – Condition 33 – Waste – Non-compliant (low risk) – In relation to the management of mineral waste, the Waste Management Plan does not include:

- (a) a long-term waste management strategy; or
- (b) an action plan for the implementation of the key measures proposed to achieve the strategy.

Schedule 3 – Condition 34A – Rehabilitation – Rehabilitation Strategy – Non-compliant (low risk) – As of March 2022, BHOP had not submitted a Rehabilitation Strategy to the DPE for approval (the deadline for submission was 30 June 2018).

Schedule 3 – Condition 35 – Rehabilitation – Rehabilitation Management Plan – Non-compliant (low risk) – As of March 2022, BHOP has not developed a Rehabilitation Management Plan as required by this condition.

Schedule 4 – Condition 2 – Environmental Management – Management Plan Requirements – Non-compliant (low risk) – In relation to paragraphs (a), (e) and (f) of this condition:

- (a) Not all of the relevant Environmental Management Plans (EMPs) include detailed baseline data. It was noted that the Air Quality Management Plan includes baseline air quality monitoring data, and section 7.2 of the Site Water Management Plan (SWMP) includes baseline data of groundwater quality.
- (e) Not all of the EMPs include a contingency plan (or any reference to a contingency plan) to manage any unpredicted impacts and their consequences. It was noted that sections 7.1 and 7.2 of the Community Lead Management Plan identify 'contingency' measures where air quality trends indicate an increase in lead emissions which can be attributed to the Rasp Mine, and sections 8.4 and 11.3.3 of the SWMP include details of contingency measures in relation to water quality in Horwood Dam, and unacceptable impacts to groundwater, respectively.
- (f) None of the EMPs include information relating to programs to investigate and implement ways to improve the environmental performance of the project over time.

Schedule 4 – Condition 4 – Environmental Management – Revision of Strategies, Plans & Programs – Non-compliant (low risk) – During the audit period, there were several instances of BHOP not complying with the 'within three months' requirement in this condition. Document control information (i.e. version history) in each of these strategies, plans and programs does not indicate whether the document was reviewed after each scenario in paragraphs (a) to (d) of this condition.

Schedule 4 – Condition 5A – Reporting – Non-Compliance Notification – Non-compliant (low risk) – In relation to the exceedances of blasting limits for Block 7 production blasts, there was no evidence that BHOP has notified the DPE of a 'non-compliance' as defined in the Project Approval, within seven days of becoming aware of these exceedances.

Schedule 4 – Condition 9 – Access to Information – Administrative non-compliance – The following documents which this condition requires to be on the CBH website, were not on the CBH website as of March 2022:

- Blasting Monitoring Program Management Plan (BHO-PLN-ENV-006);
- Technical Blasting Management Plan (BHO-PLN-MIN-002);
- Conservation Management Plan, which had not been formally issued as of March 2022; and
- Rehabilitation Management Plan, which had not been formally issued as of March 2022.

Environment Protection Licence Number 12559 as at 4 October 2019

Limit Conditions – Pollution of waters – Condition L1.1 – Non-compliant (low risk) – On 10 March 2022, minor seepage was observed from the S49 Ryan Street Dam adjacent to and across the site boundary.

Limit Conditions – Concentration Limits – Condition L2.1 – Non-compliant (low risk) – In respect of quarterly air emissions testing conducted at the Crusher Baghouse (EPL ID 2) on 9 December 2020, BHOP reported exceedances of the discharge criteria in the relevant tables of this condition, for both TSP and Type 1 and 2 substances.

Limit Conditions – Blasting – Condition L5.2 – Non-compliant (low risk) – During the audit period, BHOP exceeded the allowable 5% above 3mm/s limit (for ground vibration) of the total number of blasts over a 12 month period at Block 7 (V5 blast monitor).

Limit Conditions – Other limit conditions – Condition L8.1 – Non-compliant (low risk) – During this March 2022 audit, BHOP was unable to provide evidence that all stormwater and other surface water holding ponds identified in the Site Water Management Plan (e.g. S44 and S49) have been designed, constructed and maintained to accommodate the stormwater runoff generated in a 100 year (24 hour) Average Recurrence Interval rain event, as defined in this condition.

Operating Conditions – Maintenance of plant and equipment – Condition O2.1 – Non-compliant (low risk) – On infrequent occasions during the audit period, plant and equipment used on site was not maintained or operated in accordance with paragraphs a) and b) of this condition, including:

- a) Torn filter bags in the Crusher Baghouse had not been detected prior to scheduled point source air emissions testing by Assured Environmental on 9 December 2020 (refer to section 8 in the 2020 AEMR and section 10 of the 2020-2021 Annual Review).
- b) Failure to monitor a blast at V2 Hire Yard on 19 April 2019 due to operator error in initiating the recording function on the spare blast monitor (refer to section 8 in the 2019 AEMR and section 10 of the 2019-2020 Annual Review).

Operating Conditions – Dust – Condition O3.3 – Non-compliant (low risk) – As of March 2022, BHOP is unable to ‘immediately’ suppress dust from TSF2, as a water spray system or an alternative ‘immediate’ dust control measure has not been installed.

Operating Conditions – Dust – Condition O3.4 – Non-compliant (low risk) – The use of a mobile crusher (as occurred during the audit period) is not authorised under the EPL. The EPL defines that the crushing of “extracted material” (inclusive of rock fill material from underground) must only occur inside the existing crusher enclosure.

Operating Conditions – Processes and management – Condition O4.1 – Non-compliant (low risk) – As of March 2022, BHOP does not have a documented inspection, surveying or preventative maintenance schedule (e.g. in Pronto) to ensure that sedimentation does not reduce the capacity of surface water storage ponds by more than 10% of their design capacity.

Monitoring and Recording Conditions – Requirement to monitor concentration of pollutants discharged – Condition M2.1 – Non-compliant (low risk) – On infrequent occasions during the audit period, BHOP did not monitor at the frequency as required by the relevant tables within this condition.

Monitoring and Recording Conditions – Requirement to monitor concentration of pollutants discharged – Condition M2.2 – Non-compliant (low risk) – During the 2021 Annual Return reporting period (2 November 2020 to 1 November 2021), BHOP did not satisfy the required monthly frequency as defined in the third table within this condition for collecting groundwater samples at EPL monitoring points 53 and 54, due to the relevant pump not being operational/running.

Monitoring and Recording Conditions – Blasting – Condition M7.1 – Non-compliant (low risk) – On 19 April 2019, BHOP failed to monitor a blast at V2 Hire Yard due to operator error in initiating the recording function on the spare blast monitor (refer to section 8 in the 2019 AEMR and section 10 of the 2019-2020 Annual Review).

Reporting Conditions – Annual return documents – Condition R1.8 – Administrative non-compliance – In BHOP’s November 2020 and November 2021 Annual Returns, section H was not signed and dated by either a BHOP Director or BHOP’s Secretary.

Reporting Conditions – Annual return documents – Condition R1.9 – Administrative non-compliance – During the audit period, BHOP has not consistently supplied the EPA with Quarterly Blast Reports at the required quarterly frequency.

Consolidated Mining Lease Number 7 as renewed on 17 January 2007

Notice to Landholders – Condition 1 – Administrative non-compliance – During this March 2022 audit, BHOP was unable to provide evidence of written notification to landholders of the leased land or of a published notice in a newspaper circulating in the lease area.

Mining, Rehabilitation, Environmental Management Process (MREMP) – Mining Operations Plan – Condition 2 – Administrative non-compliance – In relation to paragraph (b) of this condition, the current Mining Operations Plan (1 October 2021 to 30 September 2023) does not identify how the Rasp Mine will be managed to allow mine closure, due to an apparent lack of agreement with relevant agencies regarding end land use.

Reports – Condition 7 – Non-compliant (low risk) – During this March 2022 audit:

- BHOP was unable to provide evidence that exploration reports for 2018-2019 and 2019-2020 were prepared and provided to the DPE within the required 28 day period; and
- the 2020-2021 exploration report (which was not sighted) was provided to the DPE on 16 November 2021 (i.e. 11 days late).

Exploratory Drilling – Condition 15 – Non-compliant (low risk) – During this March 2022 audit, BHOP was unable to provide evidence of having given the minimum 28 days’ prior notification of surface exploratory drilling to the Resources Regulator.

Compliance Assessment Criteria

The compliance status for each condition of the Project Approval, EPL and CML7 was assessed in accordance with the following criteria in section 4.1 of the NSW Government's *Independent Audit Guideline (Post-approval requirements for State significant developments October 2015)*.

Assessment	Criteria
Compliant	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit.
Not verified	Where the auditor has not been able to collect sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit. In the absence of sufficient verification the auditor may in some instances be able to verify by other means (visual inspection, personal communication, etc.) that a requirement has been met. In such a situation, the requirement should still be assessed as not verified. However, the auditor could note in the report that they have no reasons to believe that the operation is non-compliant with that requirement.
Non-compliant	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent of one or more specific elements of the regulatory approval have not been complied with within the scope of the audit.
Administrative non-compliance	A technical non-compliance with a regulatory approval that would not impact on performance and that is considered minor in nature (e.g. report submitted but not on the due date, failed monitor or late monitoring session). This would not apply to performance-related aspects (e.g. exceedance of a noise limit) or where a requirement had not been met at all (e.g. noise management plan not prepared and submitted for approval).
Not triggered	A regulatory approval requirement has an activation or timing trigger that had not been met at the time of the audit inspection, therefore a determination of compliance could not be made.
Observation	Observations are recorded where the audit identified issues of concern which do not strictly relate to the scope of the audit or assessment of compliance. Further observations are considered to be indicators of potential non-compliances or areas where performance may be improved.
Note	A statement or fact, where no assessment of compliance is required.

Risk levels for Assessed Non-Compliances

Risk levels for assessed non-compliances were identified in accordance with the following risk levels in section 4.1 of the NSW Government's *Independent Audit Guideline (Post-approval requirements for State significant developments October 2015)*.

Risk level	Colour code	Description
High		Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence.
Medium		Non-compliance with: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> potential for moderate environmental consequences, but is unlikely to occur; or potential for low environmental consequences, but is likely to occur.
Administrative non-compliance		Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions).

Summary of Compliance Status

Table 1 below summarises the findings identified in this March 2022 audit against the conditions of the Project Approval, EPL and CML7.

Table 1: BHOP Rasp Mine – Summary of Compliance Status as identified in the March 2022 Independent Environmental Audit

Condition and Audit Finding	Compliant	Not verified	Non-compliant Risk level			Administrative non-compliance	Not triggered (as at March 2022)	Note	Observation
			High	Medium	Low				
Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions (12 conditions)	8	-	-	-	2	1	-	1	16
Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions (45 conditions)	32	1	-	-	11	1	-	1	55
Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing (11 conditions)	6	-	-	-	3	1	1	-	14
Environment Protection Licence Number 12559 (77 conditions)	55	2	-	-	11	2	2	4	30
Consolidated Mining Lease Number 7 (29 conditions)	24	-	-	-	2	2	1	-	8
Total (174 Conditions)	125	3	-	-	29	7	4	6	123

Details of Compliance Status

Table 2 (which commences on the following page) provides detailed information regarding the findings identified in this March 2022 audit against the conditions of the Project Approval, EPL and CML7. Observations are provided for BHOP's consideration to improve levels of compliance and enable continual improvement to be demonstrated in statutory compliance, environmental management and environmental practices across the operation. 'Auditor's Notes' are for the relevant authority's consideration.

The Auditors' assessment of BHOP's compliance against the conditions of the Project Approval excluded BHOP's Mod 6 application, which had not been determined as of 11 March 2022 (the end of the audit period). The Mod 6 application was subsequently approved on 16 March 2022.

In relation to the Project Approval conditions as reproduced in the first column of Table 2 below:

- Black type represents the original Project Approval of 31 January 2011;
- Red type represents the March 2012 Modification (Mod 1 – Ventilation Shaft);
- Blue type represents the August 2014 Modification (Mod 2 – 24 Hour Primary Crusher);
- Green type represents the March 2015 Modification (Mod 3 – Block 7 Extension);
- Purple type represents the September 2017 Modification (Mod 4 – Tailings Storage Facility);
- Dark blue type represents the November 2018 Modification (Mod 5 – Cement Silo and Warehouse Extension);
- Orange type represents the July 2019 Modification (Mod 7 – Additional Crushing and Screening);
- Brown type represents the April 2021 Modification (Mod 8 – Underground Mining Extension);
- Pink type represents the December 2021 Modification (Mod 9 – Extension of Underground Exploration).

Table 2: BHOP Rasp Mine – Details of Compliance Status as identified in the March 2022 Independent Environmental Audit

Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 2 – Condition 1 – Obligation to Minimise Harm to the Environment</p> <p>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.</p>	<p>Compliant</p> <p>2 Observations</p>	<p>It is the Lead Auditor’s opinion that as of March 2022, BHOP has implemented all reasonable and feasible measures to prevent and/or minimise material harm to the environment that may result from the construction, operation or rehabilitation of the project.</p> <p>During the audit period, BHOP has established and implemented a range of measures (for example, an Environmental Management Strategy, the Pronto asset management and preventative maintenance system, Construction Environmental Management Plans, environmental monitoring procedures) to prevent and/or minimise any material harm to the environment that may result from the construction, operation or rehabilitation of the project.</p> <p><u>Construction Environment Management Plans</u></p> <p>An example of the measures implemented by BHOP to minimise any material harm to the environment is the completion of an internal audit against construction activities under the Construction Environment Management Plan (CEMP) – TSF2 Embankment (revision no. 6, dated 15 June 2020, Doc ID: BHO-PLN-ENV-012).</p> <p>The CEMP-TSF2 EMB internal audit was completed from October 2019-February 2022, and an audit report issued in February 2020, with a detailed audit table showing compliance status against relevant environmental management IDs in the CEMP-TSF2 EMB.</p> <p>The CEMP-EMB2 audit report:</p> <ul style="list-style-type: none"> identified 45 compliances, one non-compliance (refer to audit finding for Project Approval Schedule 2, condition 2 in this audit report) and 6 partial non-compliances against environmental management controls in the CEMP-TSF2 EMB; and actions taken by BHOP in response to the identified partial non-compliances. <p>Observation No. 1 – To enable significant environmental risks to be proactively determined and addressed to minimise material harm, BHOP could review and update the existing site Environmental Risk Register that was last revised in 2010. BHOP’s existing health and safety risk assessment could potentially be used as a template.</p>	<p>Ob 1 – To be actioned.</p> <p>Ob 2 – To be actioned.</p>

Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p><u>Environmental monitoring</u></p> <p>During this March 2022 audit, the Auditors sighted environmental monitoring procedures, including:</p> <ul style="list-style-type: none"> • Dust Deposition Gauge Monitoring Procedure (BHO-PRO-ENV-001), Revision No. 1, issued on 10 March 2015; • High Volume Air Sample Monitoring Procedure (BHO-PRO-ENV-002), Revision No. 2, issued on 29 August 2015; • Tapered Element Oscillating Microbalance (TEOM) Monitoring Procedure (BHO-PRO-ENV-010) – not document controlled; • Blast Monitoring – Spare/Field Unit Set-Up Procedure (BHO-PRO-ENV-016), Revision No. 1, issued on 29 April 2019; • Surface Placement of Material Testing Procedure (BHO-PRO-ENV-036), Revision No. 3, issued on 12 September 2019. <p>The Auditors sighted a selection of environmental monitoring data/records as identified in this audit report.</p> <p>Observation No. 2 – BHOP should review, update as required, and reissue: a) the Dust Deposition Gauge Monitoring Procedure; b) the High Volume Air Sample Monitoring Procedure; and c) the Tapered Element Oscillating Microbalance (TEOM) Monitoring Procedure.</p> <p><u>Consultation with agencies</u></p> <p>Agencies were invited to comment on key issues within the scope of this March 2022 audit. In relation to the agencies which responded to the consultation letters (refer to Appendix 2 of this audit report):</p> <ul style="list-style-type: none"> • The Auditors considered the DPE’s email of 23 February 2022 when assessing compliance against relevant Project Approval conditions. For example, the audit finding for Project Approval Schedule 2, condition 2, identifies the isolated non-compliance against a relevant EA requirement. • The Auditors considered the Resources Regulator’s letter of 16 March 2022 when assessing compliance against relevant CML7 conditions, including CML7 condition 2. • The Auditors considered the response from TfNSW (email of 17 March 2022) when assessing compliance against Project Approval Schedule 3, conditions 20A and 28A. 	

Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<ul style="list-style-type: none"> In relation to the Biodiversity and Conservation Division’s letter of 4 March 2022, it was noted that Mod 6 was approved on 16 March 2022 (i.e. after the audit period). It was noted that section 2.7.4 of BHOP’s Modification 6 Report dated August 2021, states: “The mine shafts were considered to be unsuitable roosting habitat for bats as their steel capped roofs provide limited or no access and updraught of airflow containing highly sulphurous fumes was noted at some shafts (Greg Richards and Associates Pty Ltd, 2001). There are a few openings from historic underground workings within Kintore Pit however there is no current access to undertake any assessment for their potential as fauna habitat. During mining operations there have not been any sightings of fauna entering or leaving these areas or within the Pit.” 	
<p>Schedule 2 – Condition 2 – Terms of Approval</p> <p>The Proponent must carry out the project:</p> <p>(a) generally in accordance with the EA; and</p> <p>(b) in accordance with the conditions of this approval.</p> <p><i>Note: The general layout of the project is shown in Appendix 2.</i></p>	<p>Non-compliant (low risk)</p>	<p>In field inspections during this March 2022 audit, there was evidence that BHOP is carrying out the project in accordance this condition. However, on one occasion during the audit period, BHOP received an official caution from the DPE.</p> <p>The official caution related to earthworks carried out between 12 July 2019 and 7 August 2019, for the TSF2 Embankment works. BHOP self-reported the incident by submitting an incident report to the DPE on 1 October 2019.</p> <p>The official caution letter of 29 April 2020 stated:</p> <p>“The Department has determined that BHOP breached Section 4.2 (b) of the Act by carrying out development works on Embankment 2 of TSF2 Blackwood Pit that was not in accordance with the Environmental Assessment (Rasp Mine Environmental Assessment Modification 4, Concrete Batching Plant Blackwood Pit TSF2 Extension, dated April 2017, and Response to Submissions, dated June 2017), specifically that BHOP utilised material;</p> <ul style="list-style-type: none"> that had a lead content in excess of the upper limit (0.5%) permitted by the Environmental Assessment; and that was from an area not approved under the Environmental Assessment.” 	<p>NC – Corrective actions implemented at the time of incident.</p>

Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>The official caution letter of 29 April 2020 also stated:</p> <p>“In reaching this decision, the Department has considered the particulars of the breach set out above and the following matters:</p> <ol style="list-style-type: none"> 1. There was no evidence of increased lead impacts on the environment or the amenity of the nearby residents resulting from the breach; 2. No complaints were received in relation to the breach; 3. Whilst there was no evidence of actual harm to health and safety, there was a potential for harm to public health; and 4. BHOP undertook appropriate dust suppression, reported the breach to the Department and other relevant regulators, arranged further air quality modelling, reviewed dust monitoring data, reviewed its management procedures, and cooperated with the investigation.” <p>Non-compliant (low risk) – On 29 April 2020, BHOP received an official caution from the DPE for failing to carry out the project in general accordance with the relevant EA (“Rasp Mine Environmental Assessment Modification 4, Concrete Batching Plant Blackwood Pit TSF2 Extension dated April 2017”), by using fill material with a lead concentration higher than 0.5% when constructing the TSF2 Embankments.</p> 	
<p>Schedule 2 – Condition 3 – Terms of Approval</p> <p>If there is any inconsistency between the documents listed in condition 2 above, the most recent document in the relevant condition shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.</p>	Note	<p>The potential for inconsistency between the documents listed in condition 2 of this Schedule, and the prevailing nature of the conditions of the Project Approval, is acknowledged by relevant BHOP personnel.</p>	
<p>Schedule 2 – Condition 4 – Terms of Approval</p> <p>The Proponent shall comply with any reasonable requirement/s of the Secretary arising from the Department’s assessment of:</p>	Compliant	<p>Relevant BHOP personnel were aware of and understood this condition.</p>	

Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
(a) any reports, strategies, plans, programs, reviews, audits, or correspondence that are submitted in accordance with the conditions of this approval; and (b) the implementation of any actions or measures contained in these documents.		During the audit period, the DPE assessed and approved BHOP's Mod 7, Mod 8 and Mod 9 applications. The DPE's assessment reports (with recommendations for approval of the Mod 7, Mod 8 and Mod 9 applications) did not impose any requirements other than the proposed conditions of approval which were subsequently included in the Project Approval.	
<p>Schedule 2 – Condition 5 – Limits on Approval – Mining Operations</p> <p>The Proponent may carry out mining operations on site until 31 December 2026.</p> <p><i>Note to Condition 5: Under this approval, the Proponent is required to rehabilitate the site and carry out additional undertakings to the satisfaction of the Secretary. Consequently, this approval will continue to apply in all respects - other than the right to conduct mining operations - until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.</i></p>	Compliant Observation	<p>The end date of 31 December 2026 is acknowledged in section 2 of the current Rasp Mine Mining Operations Plan (MOP) dated 31 August 2021 (version: V1), covering the period from 1 October 2021 to 30 September 2023.</p> <p>It was stated that the MOP will be replaced by a Rehabilitation Management Plan (under development by external consultant, EMM, as of March 2022) by 2 July 2022, which is when new rehabilitation conditions under the <i>Mining Act 1992</i> will take effect for large mines in NSW.</p> <p>Relevant BHOP personnel were aware of and understood the current end date of 31 December 2026 for mining operations.</p> <p>Observation No. 3 – BHOP should ensure the issued Rehabilitation Management Plan includes the current mining operations end date.</p>	Ob 3 – To be actioned.
<p>Schedule 2 – Condition 6 – Limits on Approval – Production</p> <p>The Proponent shall not extract more than 750,000 tonnes of ore per annum, or more than 8,450,000 tonnes of ore over the life of the project.</p>	Compliant Observation	<p>As noted in BHOP's Annual Environmental Management Reports (AEMRs) for 2019, 2020 and 2021 (Table 2-2 – Ore and Waste Summary for the Reporting Period), the "Ore Tonnes Mined: Dry Tonnes" on a calendar year basis were:</p> <ul style="list-style-type: none"> • 2019 – 649,902 tonnes; • 2020 – 552,398 tonnes; • 2021 – 459,684 tonnes. <p>Table 4-1 (Production Summary – Cumulative) in BHOP's Annual Review of 2020-2021, records cumulative production of ore as of 31 April 2021 (the end of the reporting period), as 5,603,718 tonnes. It was noted that Table 4-1 does not expressly refer to "tonnes".</p>	Ob 4 – To be actioned.

Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Observation No. 4 – For consistency with the use of “extract” in this condition, BHOP’s Annual Environmental Management Reports could be revised to: a) replace the “approved to produce” reference in the Introduction with “approved to extract”; and b) include a footnote to Table 2-2 (Ore and Waste Summary for the Reporting Period) to define “ore tonnes mined” as “extraction”.</p>	
<p>Schedule 2 – Condition 7 – Limits on Approval – Transport</p> <p>Until ore processing facilities have been constructed and commissioned on the site, the Proponent is permitted to transport crushed ore by road to the Endeavour Mine, or such other location approved by the Secretary, for processing. Following commissioning of the ore processing facilities, the Proponent shall only transport zinc and lead concentrates from the site by rail, except in an emergency situation and with the prior written approval of the Secretary.</p>	<p>Compliant</p>	<p>It was stated that during the audit period, there was no emergency situation which required lead and zinc concentrates to be transported from the site by a form of transport other than by rail.</p> <p>It was stated that during the audit period, BHOP has only used rail for the transportation of zinc and lead concentrates, with:</p> <ul style="list-style-type: none"> zinc concentrate being transported by rail to the Shiploader in Newcastle, NSW; and lead concentrate (including silver) being transported by rail to Nystar at Port Pirie, South Australia. 	
<p>Schedule 2 – Condition 8 – Structural Adequacy</p> <p>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.</p> <p><i>Notes to Condition 8:</i></p> <ul style="list-style-type: none"> Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; and Part 8 of the EP&A Regulation sets out the requirements for the certification of the project. 	<p>Administrative non-compliance</p> <p>Observation</p>	<p>According to section 5.1 in BHOP’s 2019, 2020 and 2021 AEMRs, no buildings were constructed on CML7 during the relevant period. Refer to observation below.</p> <p>It was stated that although the Warehouse Extension was commissioned during this audit period (in 2019), the extension is not referred to in the 2019 AEMR because it is not located within the CML7 boundary.</p> <p>Administrative non-compliance – During this March 2022 audit, BHOP was unable to provide documented evidence (e.g. an occupation certificate or a statement from a private certifier) that the following structures were constructed in accordance with relevant requirements of the Building Code of Australia: a) Concrete Batching Plant; b) Cement Silo; and c) Warehouse Extension.</p> <p>Observation No. 5 – Section 5.1 of the 2021 Annual Environmental Management Report incorrectly states that no buildings were constructed on CML7 in “2020”; this reference should be “2021”.</p>	<p>ANC – BHOP to attempt to source occupation certificate.</p> <p>Ob 5 – Corrected.</p>

Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 2 – Condition 9 – Demolition</p> <p>The Proponent shall ensure that all demolition work is carried out in accordance with <i>Australian Standard AS 2601-2001: The Demolition of Structures</i>, or its latest version.</p>	<p>Compliant</p>	<p>It was stated that during the audit period, no on-site structures were demolished.</p> <p>It was stated that if any demolition work is to occur, BHOP would ensure that the work is carried out in accordance with this condition.</p> <p>On 18 September 2019, a limited quantity of asbestos which was scattered on ground throughout Block 5 (old shaft) was removed by a licensed contractor, John Franklin (Licence No. AD212122). The Auditors sighted a Clearance Certificate signed by John Franklin, dated 18 September 2019.</p>	
<p>Schedule 2 – Condition 10 – Operation of Plant and Equipment</p> <p>The Proponent shall ensure that all the plant and equipment used on site, or to transport materials to and from the site, is:</p> <p>(a) maintained in a proper and efficient condition; and</p> <p>(b) operated in a proper and efficient manner.</p>	<p>Non-compliant (low risk)</p> <p>11 Observations</p>	<p>In assessing compliance against this condition, the Auditors considered the plant and equipment ‘failure to operate’ or ‘not operate as intended’, which BHOP could have potentially prevented.</p> <p>For example, the blast monitor at location V2 malfunctioned during the long weekend of 17 April 2019. As the monitor is located in a business premises, it could not be accessed, and a spare monitor was set up at the boundary. The spare monitor was not initiated correctly and failed to monitor a production blast at that location.</p> <p>By contrast, the software fault in the Silver Tank HVAS units (EPL monitoring points 10 and 11) on 2 January 2020, which prevented those units from monitoring on that day, could not have reasonably been prevented by BHOP and is not considered to be a non-compliance against this condition.</p> <p>Non-compliant (low risk) – On infrequent occasions during the audit period, some items of plant and equipment used on site were not maintained or operated in accordance with paragraphs (a) and (b) of this condition, including:</p> <p>(a) Torn filter bags in the Crusher Baghouse had not been detected prior to scheduled point source air emissions testing by Assured Environmental on 9 December 2020 (refer to section 8 in the 2020 AEMR and section 10 of the 2020-2021 Annual Review).</p> <p>(b) Failure to monitor a blast at V2 Hire Yard on 19 April 2019 due to operator error in initiating the recording function on the spare blast monitor (refer to section 8 in the 2019 AEMR and section 10 of the 2019-2020 Annual Review).</p>	<p>NC – BHOP has since employed a fixed plant maintenance planner.</p> <p>Ob 6 – To be investigated.</p> <p>Ob 7 – To be investigated.</p> <p>Ob 8 – To be actioned.</p> <p>Ob 9 – To be actioned.</p> <p>Ob 10 – To be reviewed.</p> <p>Ob 11 – To be actioned.</p> <p>Ob 12 – To be considered.</p> <p>Ob 13 – To be actioned.</p> <p>Ob 14 – To be actioned.</p> <p>Ob 15 – To be considered.</p> <p>Ob 16 – To be considered.</p>

Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p><u>Paragraph (a): Maintenance of plant and equipment</u></p> <p>BHOP utilises the Pronto software system to define its plant and equipment assets, and for maintenance planning and scheduling.</p> <p>In relation to paragraph (a) of this condition, records which were sighted in this March 2022 audit included:</p> <ul style="list-style-type: none"> • maintenance records (a history of scheduled services and unscheduled repairs) held in the Pronto system (including assigned work priorities from ‘1’ to ‘5’, with ‘1’ being immediate, ‘2’ within 24 hours, ‘3’ within 7 days, ‘4’ within 4 weeks and ‘5’ during shutdown). Sample work orders were viewed, including: <ul style="list-style-type: none"> ○ work order 0236738 completed 20 December 2019, priority ‘1’ for “air supply getting stuck on”, valve replacements of two valves; ○ the BHOP-owned Isuzu water trucks (Pronto items WT-03 and WT-04) – are inspected at two week intervals for ‘safety and functional’; ○ the washbay at the entrance to the mining area of the site (Pronto item RINFR-TW) – the most recent work order for raw water filter and clean was on 14 January 2019, work order 0194161, PM task no. 420261); and ○ PM task no. 6000001 for a monthly electrical service of TEOM1 (most recently on 12 March 2022) and TEOM2 (most recently on 10 November 2020) – these are the only environmental assets existing in Pronto under the ‘Environmental’ parent classification. <p>Observation No. 6 – BHOP could investigate why the most recent record in Pronto for ‘raw water filter and clean’ of the washbay at the entrance to the mining area of the site was on 14 January 2019 (i.e. more than 3 years prior to March 2022).</p> <p>Observation No. 7 – BHOP could investigate why the most recent record in Pronto for the monthly electrical service of TEOM2 was on 10 November 2020 (i.e. more than 15 months prior to March 2022).</p>	

Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>It was stated that during the audit period, environmental monitoring equipment has been assigned priority '1' (i.e. immediate) in Pronto. However, during this March 2022 audit, maintenance of the TEOM units (being the only monitoring equipment in Pronto) was observed to have priority '3' (i.e. within 7 days).</p> <p>Observation No. 8 – To facilitate scheduling for maintenance of environmental assets (e.g. monitoring equipment) and assigning priority status for repair and replacement, BHOP could include all relevant environmental assets in Pronto. As of March 2022, the only environmental assets recorded in Pronto were the two TEOM units.</p> <p>Observation No. 9 – To improve the ongoing status of compliance with monitoring requirements of the Project Approval and EPL, the maintenance, repair and replacement of environmental monitoring equipment could be assigned a priority '1' status in Pronto.</p> <p>In a sample of fixed asset records viewed by the Auditor in Pronto, some fixed assets included unassigned or inconsistently entered preventative maintenance (PM) task numbers. These included:</p> <ul style="list-style-type: none"> the Horwood Dam pump (Plant Item 402-PPO03) – no PM task number existed in Pronto for this asset; and the 'Crusher Baghouse' (Plant Item 310-DC-01) replacement of filter bags, PM task no. 600007, work order 0219333 was entered as completed on 24 October 2019 for a 24 month service interval (i.e. a due date of 24 October 2021). An 'unassigned' PM task no. for work order 0273249 was entered on 8 January 2021 for an order of 196 filter bags, which is within the 24 month service interval in PM task no. 600007. Due to the 'unassigned' PM task no. entered on 8 January 2021, PM task no. 600007 was not recorded as completed by the due date. <p>It was noted that torn filter bags were detected after source emissions testing on 9 December 2020, which is around 15 months after the previous filter bags replacement on 24 October 2019. New filter bags were ordered on 8 January 2021.</p>	

Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>At the time of writing this March 2022 audit report, it was unclear whether the date of the order for 196 filter bags (8 January 2021) was correctly entered into Pronto, given that Assured Environmental provided BHOP with the results of the source emissions testing at the Crusher Baghouse three days later, on 11 January 2021.</p> <p>Observation No. 10 – BHOP could review and potentially reduce the existing 24 month service interval between filter bags replacement in the Crusher Baghouse.</p> <p>Observation No. 11 – BHOP should review its data entry processes and confirm that preventative maintenance task numbers for fixed assets (in particular, critical assets such as the Horwood Dam pump and Crusher Baghouse) have been consistently entered into Pronto.</p> 	
		<p>Photo 1 – Pronto task no. 600007, work order 0219333 for filter bags replacement on 24 October 2019 at Crusher Baghouse (9 March 2022)</p>	

Project Approval 07_0018 (Mod 9) Schedule 2 – Administrative Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>The operating manual for the Crusher Baghouse was sighted in the Pronto system (a PDF file in the Pronto item record). However, the applicable operating manuals for the Isuzu water truck and the washbay were not available in the Pronto system, which would require the relevant workshop personnel to look elsewhere for (and potentially not locate) the manufacturer's original instructions if these were required.</p> <p>Observation No. 12 – BHOP could consider implementing a program to scan and include PDF versions of relevant operating manuals with the relevant Pronto items.</p> <p>During this March 2022 audit, the number of spare filter bags (if any) currently held on site for use in the Crusher Baghouse could not be identified in the Pronto system or in hard copy. The Pronto system indicated that the site ordered 196 filter bags on 8 January 2021.</p> <p>Observation No. 13 – For the Crusher Baghouse, BHOP could ensure the Pronto system contains up-to-date information regarding the quantity of spare filter bags in stock.</p> <p>In a field inspection on 9 March 2022, the right side entry roller door to the concentrate loading shed was not fully closed (i.e. an incomplete seal). On this day, the mill was not operational, and concentrate loading was not taking place.</p> <p>Observation No. 14 – BHOP could review the inspection and maintenance schedule for roller door mechanisms in all relevant structures, to ensure the roller doors provide a complete seal when in the fully closed position.</p>	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		 <p>Photo 2 – Concentrate loading shed entry roller door (on right) not providing a complete seal when closed (9 March 2022)</p> <p><u>Paragraph (b): Operation of plant and equipment</u></p> <p>In relation to paragraph (b) of this condition, the Auditors sighted examples of the INX InTuition 'Person Status Report' which recorded the status of competencies (e.g. TRN-001-Rasp Mine Site Induction, PRO-SAF-006 Job Safety Analysis (JSA) Procedure) of a BHOP employee and of an employee of a long-term contractor (Jetcrete).</p> <p>As of March 2022, workshop weekly inspections are completed on a hard copy form.</p> <p>The Auditor sighted completed Workshop Weekly Inspection Records in Pronto (work order no. 0256570 for an inspection completed on 31 May 2020, and work order no. 0289056 for an inspection completed on 1 January 2022). However, in the workshop office, no hard copy inspection form existed for the Pronto-recorded date of 1 January 2022 (with 5 January 2022 being the nearest date of a hard copy inspection form).</p>	

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		<p>It was stated that there is no requirement in Pronto to attach an inspection checklist or refer to a checklist reference number, before recording that an inspection has been completed.</p> <p>Observation No. 15 – BHOP could consider whether completed site inspections (including workshop) could be validated by:</p> <ul style="list-style-type: none"> • using an electronic checklist on a tablet or other device instead of using hard copy checklists; or • requiring hard copy inspection checklists to either be attached or referenced (e.g. by a unique checklist number) in Pronto. <p>Observation No. 16 – Completed hard copy inspection forms could be scanned and entered into Pronto:</p> <ul style="list-style-type: none"> • to facilitate ease of reference in tracking relevant work orders from the date of inspection (as distinct from date of entry into Pronto) to date of completion; and • as a back-up measure in the event that the original completed hard-copy forms are mislaid. 	
<p>Schedule 2 – Condition 11 – Staged Submission of any Strategy, Plan and Program</p> <p>With the approval of the Secretary, the Proponent may submit any strategy, plan or program required by this approval on a progressive basis.</p>	Compliant	<p>During the audit period, BHOP has not requested the Secretary's approval for any strategy, plan or program to be submitted on a progressive basis.</p>	
<p>Schedule 2 – Condition 12 – Surrender of Development Consents</p> <p>Within six months of the commencement of works the subject of this approval, the Proponent shall surrender all existing development consents applying to the site in accordance with sections 75YA and 104A of the EP&A Act.</p>	Compliant	<p>The DPE has not required BHOP to surrender any development consents. As noted in the 2016 and 2019 audit reports:</p> <p>“It was stated that no archive folder of former approvals is currently maintained by the operation.</p> <p>It was stated that BHOP would experience difficulty in surrendering Development Consents/Approvals that have expired.”</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 3 – Condition 1 – Air Quality and Greenhouse Gas – Odour</p> <p>The Proponent shall ensure that no offensive odours are emitted from the site, as defined under the POEO Act.</p>	<p>Compliant</p>	<p>It was stated that during the audit period, no odours were emitted from the site which have been offensive to the local community.</p> <p>During the audit period, BHOP has not received any odour-related complaint from the community.</p> <p>The only source of known localised odours at the operation relates to the use of bulk flotation chemicals (xanthate) within the lead circuit of the processing plant. It was stated that the quantity and scale of use of bulk flotation chemicals is insufficient to enable odours from these chemicals to be detected at the boundary of the site.</p> <p>The ‘NSW Department of Health approved’ dust suppressants (Total Ground Control, and Dustbinder) used on site during the audit period are not known to cause any odours.</p>	
<p>Schedule 3 – Condition 2 – Air Quality and Greenhouse Gas – Greenhouse Gas Emissions</p> <p>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.</p>	<p>Compliant 6 Observations</p>	<p>As of March 2022, BHOP has no formal ongoing program for the improvement of energy efficiency, reduced energy use or greenhouse abatement.</p> <p>It was stated that the primary consumers of energy at the operation include: a) electricity for the process plant; b) electricity for vent fans; and c) diesel consumed by the mining fleet.</p> <p>Electricity utilised by BHOP at the Rasp Mine is sourced from the state electricity network/grid.</p> <p>Greenhouse emissions for the operation are reported in the annual National Pollutant Inventory (NPI) that is submitted to NSW Environment Protection Authority and annual NGERs reports that are submitted to the Commonwealth Government’s Clean Energy Regulator. The Auditors sighted BHOP’s NGERs report for the reporting period 2020-2021, as submitted to the Clean Energy Regulator on 27 October 2021.</p> <p>As of March 2022:</p> <ul style="list-style-type: none"> no formal or informal voluntary greenhouse gas emissions reduction program had been developed or implemented at the Rasp Mine; 	<p>Ob 17 – To be considered.</p> <p>Ob 18 – To be considered.</p> <p>Ob 19 – To be investigated.</p> <p>Ob 20 – To be considered.</p> <p>Ob 21 – To be considered.</p> <p>Ob 22 – To be considered.</p>

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<ul style="list-style-type: none"> no known energy audits have been completed to identify actual and potential reduction programs and opportunities available to BHOP; and the Secretary of the DPE had not prescribed any requirements in relation to minimising the release of greenhouse gas emissions from the Rasp Mine. <p>Observation No. 17 – BHOP could develop and implement a suitable greenhouse gas emissions reduction program, inclusive of formal programs for greenhouse gas reduction and improved energy efficiency.</p> <p>Observation No. 18 – BHOP could calculate ‘unit’ greenhouse gas emissions, as CO₂ per tonne of lead and/or zinc concentrate produced, from commencement of operations to date. This will provide suitable baseline data for any planned energy and emissions reduction program that may be progressed in the future.</p> <p>As of March 2022, it could not be verified what percentage (if any) of BHOP’s energy consumption on site is derived from renewable sources.</p> <p>Observation No. 19 – BHOP could consider the feasibility of reaching an agreement with AGL (i.e. the owner of the Broken Hill Solar Farm and Silverton Wind Farm) to source a specified percentage of energy consumed on site as renewable/green energy.</p> <p>Observation No. 20 – BHOP could consider the feasibility of purchasing and retiring carbon offsets.</p> <p>It is noted that section 10.16 of BHOP’s Air Quality Management Plan states: “To minimise energy consumption and greenhouse gas emissions, the following management measures will be undertaken: ... Efficiency of all new mobile and fixed equipment will be considered during procurement for both diesel and electric powered equipment.”</p> <p>Observation No. 21 – BHOP could consider formalising (i.e. in a CBH/BHOP document) greenhouse gas and energy efficiency criteria (e.g. minimum acceptable criteria) for relevant plant and equipment procurement decisions.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions																									
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response																						
		<p>Observation No. 22 – BHOP could commission an independent energy audit of the project to: a) identify opportunities for reductions in greenhouse gas emissions; b) identify opportunities for improvement in energy efficiency; c) identify opportunities for energy cost savings; and d) provide information to BHOP’s parent company for sustainability reporting purposes.</p>																							
<p>Schedule 3 – Condition 3 – Air Quality and Greenhouse Gas – Air Quality Criteria</p> <p>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 cause an exceedance of the criteria listed in Tables 1, 2 or 3 at any residence on privately-owned land.</p> <p><i>Table 1: Long Term Criteria for Particulate Matter</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>^d Criterion</th> </tr> </thead> <tbody> <tr> <td>Total solid particles (TSP)</td> <td>Annual</td> <td>^a 90 µg/m³</td> </tr> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>Annual</td> <td>^a 25 µg/m³</td> </tr> </tbody> </table> <p><i>Table 2: Short Term Criterion for Particulate Matter</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>^d Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>24 hour</td> <td>^a 50 µg/m³</td> </tr> </tbody> </table> <p><i>Table 3: Long Term Criteria for Deposited Dust</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Maximum Project Contribution</th> <th>Maximum Total Deposited Dust Level</th> </tr> </thead> <tbody> <tr> <td>^c Deposited dust</td> <td>Annual</td> <td>^b 2 g/m²/month</td> <td>^a 4 g/m²/month</td> </tr> </tbody> </table> <p><i>Notes to Tables 1–3:</i></p> <ul style="list-style-type: none"> ^a Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to all other sources); ^b Incremental impact (i.e. incremental increase in concentrations due to the project on its own); ^c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; ^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents, illegal activities or any other activity agreed by the Secretary in consultation with EPA. 	Pollutant	Averaging Period	^d Criterion	Total solid particles (TSP)	Annual	^a 90 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	Annual	^a 25 µg/m ³	Pollutant	Averaging Period	^d Criterion	Particulate matter < 10 µm (PM ₁₀)	24 hour	^a 50 µg/m ³	Pollutant	Averaging Period	Maximum Project Contribution	Maximum Total Deposited Dust Level	^c Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month	<p>Non-compliant (low risk)</p> <p>3 Observations</p> <p>As of March 2022, BHOP’s current Air Quality Management Plan (AQMP) is Revision No. 3, issued on 25 June 2019, Doc ID: BHO-PLN-ENV-001.</p> <p>Section 10 of the AQMP describes air quality management strategies for a range of potential “air emission” sources on site. Refer to Project Approval Schedule 3, condition 5 for examples of BHOP’s dust management practices.</p> <p>Auditor’s Note – The criteria listed in Tables 1, 2 and 3 of this condition are expressed to apply “at any residence on privately-owned land”. BHOP’s four HVAS units and the TEOM1 unit are located on-site. The TEOM2 unit is located off-site but not on privately-owned land on which there is a residence. Of BHOP’s seven dust deposition gauges, only D1 and D6 are located off-site, but not on privately-owned land on which there is a residence.</p> <p><u>High Volume Air Samplers (HVASs)</u></p> <p>As of March 2022, BHOP operates and maintains four HVASs (three HVASs in the previous audit period) to measure ambient air quality at the Rasp Mine:</p> <ul style="list-style-type: none"> HVAS (EPL10) and HVAS1 (EPL11) are located at the Silver Tank, central and to the south of the mine lease; and HVAS2 (EPL12) and HVAS3 (EPL57) are located adjacent to and north of Blackwood Pit (TSF2). <p>HVAS and HVAS3 sample for TSP and lead dust. HVAS3 was installed during the audit period (commissioned on 14 March 2019).</p> <p>HVAS1 and HVAS2 sample for PM₁₀ and lead dust.</p>	<p>NC – Regional dust events contributing to elevated levels.</p> <p>Ob 23 – To be considered.</p> <p>Ob 24 – To be corrected.</p> <p>Ob 25 – To be considered.</p>
Pollutant	Averaging Period	^d Criterion																							
Total solid particles (TSP)	Annual	^a 90 µg/m ³																							
Particulate matter < 10 µm (PM ₁₀)	Annual	^a 25 µg/m ³																							
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^c Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month																						

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>The Auditors viewed selected BHOP Monthly Environment Monitoring Reports to assess selected monitoring results from the HVAS units against Table 1 of this condition.</p> <p>BHOP’s Monthly Environment Monitoring Report for April 2019 stated that:</p> <ul style="list-style-type: none"> • for HVAS, the TSP annual rolling average was 82.14 µg/m³ which is below the TSP 90 µg/m³ annual average criterion; • for HVAS1, the PM₁₀ rolling annual average was 39.6 µg/m³ which is above the PM₁₀ annual average criterion of 25 µg/m³ – commentary in the report noted that the increase in the annual average “would be a result of severe drought and dusty conditions over this period”; • for HVAS2, the PM₁₀ rolling annual average was 39.71 µg/m³ which is above the PM₁₀ annual average criterion of 25 µg/m³ – commentary in the report noted that “calculation of the rolling annual average includes results from days where there were dust storm events”; and • for HVAS3, the TSP rolling annual average was 54.28 µg/m³ which is below the TSP 90 µg/m³ annual average criterion. <p>BHOP’s Monthly Environment Monitoring Report for February 2020 stated that:</p> <ul style="list-style-type: none"> • for HVAS, the TSP annual rolling average was 70.84 µg/m³ which is below the TSP 90 µg/m³ annual average criterion; • for HVAS1, the PM₁₀ rolling annual average was 48.6 µg/m³ which is above the PM₁₀ annual average criterion of 25 µg/m³ – commentary in the report noted that the elevated levels on two dates (1 and 7 February 2020) was: <ul style="list-style-type: none"> ○ for the elevated reading of 221 µg/m³ on 1 February 2020, “likely the result of a regional dust storm”; and ○ for the elevated reading of 89 µg/m³ on 7 February 2020, “not likely to be the result of site activities as the predominant wind direction was from the SE”; 	

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		<ul style="list-style-type: none"> for HVAS2, no samples recorded, as this unit had been decommissioned while TSF2 embankment construction works are undertaken, and noting that a real-time PM₁₀ monitor is in place adjacent to the HVAS2 location; and for HVAS3, no samples recorded, as this unit had been decommissioned while TSF2 embankment construction works are undertaken, and noting that a real-time PM₁₀ monitor is in place adjacent to the HVAS2 location. <p>BHOP’s Monthly Environment Monitoring Report for October 2021 stated that:</p> <ul style="list-style-type: none"> for HVAS, the TSP annual rolling average was 38.18 µg/m³ which is below the TSP 90 µg/m³ annual average criterion; for HVAS1, the PM₁₀ rolling annual average was 12.7 µg/m³ which is below the PM₁₀ annual average criterion of 25 µg/m³; for HVAS2, the PM₁₀ rolling annual average was 14.19 µg/m³ which is below the PM₁₀ annual average criterion of 25 µg/m³, but noted that the annual rolling average was calculated using data from February to October 2021 only due to HVAS2 being reinstalled after 19 months decommissioned; and for HVAS3, the TSP rolling annual average was 31.55 µg/m³ which is below the TSP 90 µg/m³ annual average criterion, but noted that the annual rolling average was calculated using data from February to October 2021 only due to HVAS3 being reinstalled after 19 months decommissioned. <p><u>TEOM Samplers (PM₁₀)</u></p> <p>As of March 2022, BHOP operates and maintains two Tapered Element Oscillating Microbalance (TEOM) sampling units to measure ambient air quality at the Rasp Mine:</p> <ul style="list-style-type: none"> TEOM1 (EPL13) is located off-site within the perimeter fence of Essential Water south of the mine lease; and TEOM2 (EPL14) is located on-site adjacent to Blackwood Pit (TSF2) to the north of the mine lease. 	

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		<p>TEOM1 and TEOM2 operate continuously (samples are logged at 5 minute intervals) and sample for particulate matter less than 10 microns (PM₁₀) in size. A spare TEOM unit exists on site. It was stated that this spare TEOM unit is required to be calibrated when utilised.</p> <p>BHOP has commissioned service provider, Ecotech (part of the ACOEM Group), to provide monthly monitoring and data reporting services for the Broken Hill Site 1 and Site 2 ambient air quality monitoring stations (i.e. TEOM1 and TEOM2 stations for monitoring ambient PM₁₀). Ecotech retains NATA Accreditation No. 14184.</p> <p>The Auditors viewed selected Ecotech Ambient Air Quality Monitoring Validated Reports (for July 2019, September 2020 and December 2021) to assess selected monitoring results from the TEOM units against Table 2 of this condition.</p> <p>The Ecotech Report for July 2019 (Report ID: DAT14879, dated 28 August 2019) showed that:</p> <ul style="list-style-type: none"> • for TEOM1, the PM₁₀ ug/m³ results for each day in July 2019 were below the 50 ug/m³ 24-hour average criterion; and • for TEOM2, no samples recorded, as this unit had been powered off on 19 June 2019 at 10:15 while construction works are completed in the area. <p>The Ecotech Report for September 2020 (Report ID: DAT16303, dated 28 October 2020) showed that:</p> <ul style="list-style-type: none"> • for TEOM1, the PM₁₀ ug/m³ results for each day in September 2020 were below the 50 ug/m³ 24-hour average criterion, with the exception of a 520.2 ug/m³ result on 2 September; and • for TEOM2, no samples recorded, as this unit had been powered off on 19 June 2019 at 10:15 while construction works are completed in the area. <p>BHOP’s Monthly Environment Monitoring Report for September 2020 noted (page 8) that:</p> <p>“There was a dust storm in Broken Hill for much of the day on 2 September and the 24-hour average level for the day [of 9.7 ug/m³] has been calculated without the levels recorded during the dust storm.”</p>	

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		<p>The Ecotech Report for December 2021 (Report ID: DAT17916, dated 28 January 2022) showed that:</p> <ul style="list-style-type: none"> for TEOM1, the PM₁₀ ug/m³ results for each day in December 2021 were below the 50 ug/m³ 24-hour average criterion, with the exception of a 78.0 ug/m³ result on 15 December and a 104.3 ug/m³ result on 19 December; and for TEOM2, the PM₁₀ ug/m³ results for each day in December 2021 were below the 50 ug/m³ 24-hour average criterion, with the exception of a 56.2 ug/m³ result on 9 December and a 187.3 ug/m³ result on 19 December. <p>BHOP’s Monthly Environment Monitoring Report for December 2021 noted (page 10) that:</p> <p>“both units recorded average daily results above 50 µg/m³ on 19 December due to a dust storm. Elevated results at TEOM2 on 9 December and 15 December [note: the elevated result on 15 December should refer to TEOM1] may have been due to dust from both TSF2 and the quarry to the South of TEOM2 as the wind was from the SSW and South respectively.”</p> <p><u>Dust Deposition Sampling</u></p> <p>As of March 2022, BHOP operates and maintains seven dust deposition gauges (D1 to D7) to measure ambient air quality at the Rasp Mine. Gauges D1 and D6 are located off-site, with gauge D1 located near the St Johns training facility north of the Rasp Mine and gauge D6 located in Casuarina Avenue south of the Rasp Mine. Gauges D2 to D5 and D7 are located on the mine lease in various locations. Samples are collected monthly and analysed for total deposited dust and deposited lead dust.</p> <p>The Auditors viewed selected BHOP Monthly Environment Monitoring Reports to assess selected dust deposition monitoring results against Table 3 of this condition.</p> <p>BHOP’s Monthly Environment Monitoring Report for November 2019 noted (page 12) that:</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
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		<ul style="list-style-type: none"> for the off-site D1 gauge, total deposited dust was 2.9 g/m²/month which may be below the “maximum project contribution” of 2 g/m²/month when non-project sources of dust are excluded, and is below the “maximum total deposited dust level” of 4 g/m²/month; and for the off-site D6 gauge, total deposited dust was 13.3 g/m²/month which may be below the “maximum project contribution” of 2 g/m²/month when non-project sources of dust are excluded, but is above the “maximum total deposited dust level” of 4 g/m²/month. <p>The commentary in the Monthly Environment Monitoring Report for November 2019 as to why the result for D6 was recorded as ‘compliant’, is unclear. The Report (pages 12-13) notes that:</p> <p>“Dust results at Casuarina Avenue [which is D6], Block 10, Junction Mine, and Thompsons Shaft were the highest of the dust gauges in November. Lead levels were low in these gauges and wind was predominantly from the South to SW (with a dust storm on 27 November) in November so BHOP is not likely to have contributed significantly to the dust captured in these dust gauges.”</p> <p>Observation No. 23 – BHOP could review section 1.3 (Dust Deposition Sampling) in Monthly Environment Monitoring Reports to ensure that deposited dust data and commentary for each dust deposition gauge is expressed in terms of compliance against the “annual” averaging period specified in Table 3 of this condition.</p> <p>BHOP’s Monthly Environment Monitoring Report for March 2020 noted (page 13) that:</p> <ul style="list-style-type: none"> for the off-site D1 gauge, total deposited dust was 2.0 g/m²/month which is within the “maximum project contribution” of 2 g/m²/month when non-project sources of dust are excluded, and is below the “maximum total deposited dust level” of 4 g/m²/month; and 	

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		<ul style="list-style-type: none"> for the off-site D6 gauge, total deposited dust was 4.5 g/m²/month which may be below the “maximum project contribution” of 2 g/m²/month when non-project sources of dust are excluded, but is above the “maximum total deposited dust level” of 4 g/m²/month. <p>The commentary in the Monthly Environment Monitoring Report for March 2020 as to why the result for D6 was recorded as ‘compliant’, is unclear. The Report (pages 13-14) notes that:</p> <p>“Dust results were elevated for the D2 Block 10 and D6 Casuarina Avenue dust gauges in March. Wind was predominantly from the South with dust storms occurring throughout March. Construction works are being conducted on the Essential Water site where the D2 Block 10 dust gauge is situated. BHOP is not likely to have contributed significantly to the dust captured in these dust gauges.”</p> <p>BHOP’s Monthly Environment Monitoring Report for June 2021 noted (page 12) that:</p> <ul style="list-style-type: none"> for the off-site D1 gauge, total deposited dust was 0.2 g/m²/month which is below the “maximum project contribution” of 2 g/m²/month when non-project sources of dust are excluded, and is below the “maximum total deposited dust level” of 4 g/m²/month; and for the off-site D6 gauge, total deposited dust was 0.9 g/m²/month which is below the “maximum project contribution” of 2 g/m²/month when non-project sources of dust are excluded, and is below the “maximum total deposited dust level” of 4 g/m²/month. <p>The commentary in the Monthly Environment Monitoring Report for June 2021 as to why the result for D1 was recorded as ‘not compliant’ and the result for D6 was recorded as ‘compliant’, is unclear. The Report (page 12) notes that:</p> <p>“The dust levels recorded in Dust Gauges in June 2021 are low compared to the previous months. The highest dust levels were recorded in the D4 Junction Mine gauge. The predominant wind directions for June 2021 was from the NW and SW as shown in the Wind Rose in Section 4.”</p>	

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		<p>The above sampling result for D1 in the Monthly Environment Monitoring Report for June 2021 can be traced back to October 2020, when a deposited dust result of 11.3 g/m²/month was recorded. In BHOP’s Monthly Environment Monitoring Report for October 2020, it was noted (page 10) that:</p> <p>“The dust levels recorded in Dust Gauges in October are elevated [Auditor’s Note – missing word, assumed to be “due”] to high winds and a dust storm which occurred on 4 October. The wind directions for October were mainly from the South and SSW as shown in the Wind Rose in Section 4. The highest dust levels were recorded in the D1 St Johns gauge. The D1 St Johns gauge is north of the site and may have received dust from non-mining related activities.”</p> <p>Non-compliant (low risk) – As noted in section 3.3.2 of BHOP’s Annual Environmental Management Reports (AEMRs):</p> <ul style="list-style-type: none"> • “There were fourteen occasions where the monitoring location exceeded the depositional dust level of 4 g/m²/month limit” (2019 AEMR); • “There were fifteen occasions where the monitoring location exceeded the depositional dust level of 4 g/m²/month limit” (2020 AEMR); and • “There were three occasions where the monitoring location exceeded the depositional dust level of 4 g/m²/month limit” (2021 AEMR). <p>Observation No. 24 – BHOP should review the results table for Dust Deposition Gauges D1 to D7 in BHOP’s Monthly Environment Monitoring Reports. Several reports (e.g. December 2020, March 2021, June 2021, and November 2021) incorrectly indicate a ‘non-compliance’ at D1 against an unspecified g/m²/month limit (i.e. could be either “maximum project level” or “maximum total deposited dust contribution”).</p> <p>Observation No. 25 – To improve the reproducibility and quality control of deposited dust results, BHOP could consider collecting a duplicate sample for deposited dust once per quarter at one location and submitting that sample as a blind sample to the laboratory (i.e. a total of four samples per year).</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions																											
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<p>Schedule 3 – Condition 4 – Air Quality and Greenhouse Gas – Air Quality Criteria</p> <p>The Proponent shall ensure that the project is operated in a manner that does not exceed the criteria listed in Tables 4 and 5.</p> <p><i>Table 4: Discharge Criteria for Point 1 – Ventilation Shaft</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Units of Measure</th> <th>Concentration Limit</th> </tr> </thead> <tbody> <tr> <td>Oxides of nitrogen (as NO₂)</td> <td>Milligrams per cubic metre</td> <td>350</td> </tr> <tr> <td>Total solid particles (TSP)</td> <td>Milligrams per cubic metre</td> <td>20</td> </tr> <tr> <td>^a Type 1 and Type 2 substances</td> <td>Milligrams per cubic metre</td> <td>1</td> </tr> <tr> <td>Volatile organic compounds (as n-propane)</td> <td>Milligrams per cubic metre</td> <td>40</td> </tr> </tbody> </table> <p><i>Table 5: Discharge Criteria for Point 2 – Process Enclosure/ Baghouse Stack</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Units of Measure</th> <th>Concentration Limit</th> </tr> </thead> <tbody> <tr> <td>Total solid particles (TSP)</td> <td>Milligrams per cubic metre</td> <td>20</td> </tr> <tr> <td>^a Type 1 and Type 2 substances</td> <td>Milligrams per cubic metre</td> <td>1</td> </tr> </tbody> </table> <p><i>Notes to Tables 4–5:</i></p> <ul style="list-style-type: none"> ^a Total of Sb, As, Cd, Pb, Hg, Be, Cr, Co, Mn, Ni, Se, Sn and V; and reference conditions for the limits in Tables 4 and 5 are: dry, 273K and 101.3 kPa. 	Pollutant	Units of Measure	Concentration Limit	Oxides of nitrogen (as NO ₂)	Milligrams per cubic metre	350	Total solid particles (TSP)	Milligrams per cubic metre	20	^a Type 1 and Type 2 substances	Milligrams per cubic metre	1	Volatile organic compounds (as n-propane)	Milligrams per cubic metre	40	Pollutant	Units of Measure	Concentration Limit	Total solid particles (TSP)	Milligrams per cubic metre	20	^a Type 1 and Type 2 substances	Milligrams per cubic metre	1	<p>Non-compliant (low risk)</p> <p>2 Observations</p>	<p>During the audit period, point source emissions testing has been conducted at quarterly intervals at the two required locations (i.e. the Ventilation Shaft, and the Process Enclosure/Baghouse Stack) specified in Tables 4 and 5 of this condition.</p> <p>External air quality monitoring service provider, Assured Environmental (NATA Accreditation No. 19703), conducts on-site monitoring of pollutants (i.e. NO₂, TSP, Type 1 and Type 2 substances, and VOCs) listed in Table 4 of this condition.</p> <p>Assured Environmental utilises a NATA accredited laboratory (Envirolab Services, NATA Accreditation No. 2901) for the off-site testing of relevant pollutants (i.e. TSP, and Type 1 and 2 Hazardous Substances) listed in Table 5 of this condition.</p> <p>The key sources of actual and potential point source air emissions from the Rasp Mine site include:</p> <ul style="list-style-type: none"> crusher baghouse in the mill; transfer points on conveyor systems within the mill; concentrate loading shed; and main vent shaft (air emissions from underground ventilation). <p>The Auditors requested and sighted three selected Assured Environmental “Source Emission Monitoring” reports; dated 7 July 2019 for Q2 2019, 24 July 2020 for Q2 2020, and 8 November 2021 for Q3 2021. The test results were reported as follows:</p> <ul style="list-style-type: none"> for Q2 2019 (testing conducted on 28 and 29 May 2019), the results at both monitoring locations did not exceed the criteria in Tables 4 and 5; for Q2 2020 (testing conducted on 16 June 2020), the results at both monitoring locations did not exceed the criteria in Tables 4 and 5; and for Q3 2021 (testing conducted on 12 and 13 October 2021), the results at both monitoring locations did not exceed the criteria in Tables 4 and 5. 	<p>Ob 26 – To be investigated.</p> <p>Ob 27 – To be actioned.</p>
Pollutant	Units of Measure	Concentration Limit																									
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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Process conditions were noted in Table 15 of each of the above reports, as follows: “Development Blast” for RP1 Main Vent Shaft; and “Crusher On” for RP2 Mill Baghouse.</p> <p><u>Ventilation Shaft</u></p> <p>Since Q1 2019, no exceedances have been measured for the ventilation shaft against emission limits for pollutants listed in Table 4 (i.e. as determined quarterly by Assured Environmental).</p> <p>It was stated that stack emissions testing from this source is scheduled after a blast (i.e. as required) to identify any peaks under normal/adverse operating conditions.</p> <p><u>Process Enclosure/Baghouse Stack</u></p> <p>Since Q1 2019, with one exception as noted below, no exceedances have been measured for the process enclosure/baghouse stack (Crusher Baghouse) against emission limits for pollutants listed in Table 5 (i.e. as determined quarterly by Assured Environmental).</p> <p>Point source emissions testing conducted by Assured Environmental on 9 December 2020 at the Crusher Baghouse yielded results which exceeded the discharge criteria in Table 5 of this condition.</p> <p>Non-compliant (low risk) – In respect of quarterly air emissions testing conducted at the Crusher Baghouse (EPL2) on 9 December 2020, there were exceedances of the discharge criteria in Table 5 of this condition, for both TSP and Type 1 and 2 substances.</p> <p>Observation No. 26 – BHOP is encouraged to review current service agreements with external suppliers to verify the status of supply and immediate availability of spare filter bags on site or within Broken Hill.</p> <p>Observation No. 27 – Where point source air emissions have not exceeded the approved discharge criteria limits but have been measured to be within 20% of these limits (i.e. an internal investigation trigger), BHOP should investigate the exceedance to help prevent potential exceedances of discharge criteria in the future.</p>	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 3 – Condition 5 – Air Quality and Greenhouse Gas – Operating Conditions</p> <p>The Proponent shall:</p> <p>(a) implement best practice dust management, including all reasonable and feasible measures to minimise dust emissions, including point source and fugitive emissions;</p> <p>(b) minimise any visible off-site dust generated by the project or the site; and</p> <p>(c) regularly assess real-time air quality monitoring and meteorological forecasting data and relocate, modify and/ or suspend operations to ensure compliance with the relevant conditions of this approval, to the satisfaction of the Secretary.</p>	<p>Compliant</p>	<p>In relation to paragraphs (a) and (b) of this condition, dust management is implemented in accordance with measures and controls defined in BHOP’s Air Quality Management Plan (AQMP), issued on 25 June 2019. Refer to condition 11 of this Schedule regarding the content of the AQMP.</p> <p>Table 7 of the AQMP is an Air Quality Aspects Register, with Particulate Emission Risk Rankings and Management Strategies/Control Actions. Examples of practices implemented by BHOP to comply with paragraphs (a) and (b) of this condition and which are referred to in Table 7 of the AQMP include:</p> <ul style="list-style-type: none"> • use of a chemical dust suppressant on ‘Free Areas’; • concentrate is loaded into sealed containers within an enclosed concentrate shed with roller doors (since 2017, previously rubber curtains); and • crushing is carried out in a permanent full enclosure under negative pressure vented to a baghouse. <p>Section 15 of BHOP’s Air Quality Management Plan (issued on 25 June 2019) defines Trigger Action Response Plans (TARPs) for various aspects inclusive of “Wind Speed”, “Monitor Failure”, “Weather Forecasting”, “Fugitive Dust”, and “Measured Dust (determined to be from TSF)”.</p> <p>In relation to paragraph (c) of this condition, BHOP’s HVAS and TEOM units sample at 5 minute intervals, and are programmed to send email and SMS alerts to relevant BHOP personnel.</p> <p>BHOP also uses DustX (sourced from Kite Weather Intelligence) as a predictive dust management measure.</p> <p>The Auditors sighted DustX Dashboards and Hourly Forecasts from 18 March 2022.</p> <p>BHOP also receives DustX Reports, sent daily via email to the Senior Environmental Advisor, and which identify levels of dust risk (Negligible, Moderate, High, Extreme) according to predicted wind speed for the next 24 hours from 6:00am, and applicable response categories (category 1: Immediate Action, category 2: Watch and Act, category 3: Advice).</p>	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>The Auditors sighted a sample DustX Report email dated 20 April 2020 (5:01am) to BHOP’s Senior Environmental Advisor. This email predicted a “Dust Event 1: from 06AM to 10AM”.</p> <p>Devon Roberts</p> <p>From: KITE Weather Intelligence <kite@athena.katestone.com.au> Sent: Monday, 20 April 2020 5:01 AM To: Devon Roberts Subject: DustX report for: Rasp Mine (CBH)</p> <p>kite Proactive weather risk management</p> <p>DustX Report for: Rasp Mine (CBH)</p> <p>Alerts for Monday 20 April 2020</p> <p>Levels of Dust Risk</p> <p>■ Negligible ■ Moderate ■ High ■ Extreme</p> <p>Wind Speed (km h⁻¹)</p> <p>Mon 20-Apr-2020 Tue 21-Apr-2020</p> <p>Dust Event 1: from 06AM to 10AM</p> <p>Category 1: Immediate Action Immediately Review Today's Activities for Extreme Dust Risk Level</p> <p>Category 2: Watch and Act No alerts</p> <p>Category 3: Advice No alerts</p> <p>© Copyright 2018 Katestone. All Rights Reserved.</p>	

Photo 3 – DustX Report email dated 20 April 2020 (BHOP file)

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response																							
		<p>It was stated that on at least one occasion (see below) during the audit period, BHOP has modified and/or suspended operations during forecast high wind speed conditions.</p> <p>The Auditors sighted an email dated 20 September 2019 (12:12pm), from BHOP’s Senior Environmental Advisor to BHOP’s Project Manager (TSF Construction) in response to an email query on that day (11:36am) from the Project Manager. The Senior Environmental Advisor’s email reads (in part):</p> <p>“Conditions for the rest of the day appear to be poor and we may have to expect gusting winds so you should plan on standing down the equipment. ...</p> <p>The last 50km/hr wind speed alert I got was at 11:37am and the one before that was at 11:26am.”</p>																								
<p>Schedule 3 – Condition 6 – Air Quality and Greenhouse Gas – Operating Conditions</p> <p>The Proponent shall seal and maintain the roads listed in Table 6 to the satisfaction of the Secretary. The roads shall be sealed prior to the commencement of ore extraction, unless otherwise agreed by the Secretary.</p> <p><i>Table 6: Roads to be Sealed and Maintained</i></p> <table border="1"> <thead> <tr> <th>Road Status</th> <th>Road</th> <th>Approximate Length (m)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Existing</td> <td>Front gate to truck wash</td> <td>292</td> </tr> <tr> <td>‘Diamond’ intersection to core shed</td> <td>360</td> </tr> <tr> <td>Front gate road to car park</td> <td>132</td> </tr> <tr> <td rowspan="6">New</td> <td>Truck wash to haul road connection from Kintore Pit</td> <td>690</td> </tr> <tr> <td>Kintore Pit intersection (truck wash and haul roads) to ROM pad (haul road for ore mine trucks)</td> <td>1,186</td> </tr> <tr> <td>ROM pad to and through mill</td> <td>354</td> </tr> <tr> <td>Mill to rail load out (concentrate trucks)</td> <td>910</td> </tr> <tr> <td>Truck wash road to workshop</td> <td>190</td> </tr> <tr> <td>Haul road to backfill plant</td> <td>400</td> </tr> </tbody> </table>	Road Status	Road	Approximate Length (m)	Existing	Front gate to truck wash	292	‘Diamond’ intersection to core shed	360	Front gate road to car park	132	New	Truck wash to haul road connection from Kintore Pit	690	Kintore Pit intersection (truck wash and haul roads) to ROM pad (haul road for ore mine trucks)	1,186	ROM pad to and through mill	354	Mill to rail load out (concentrate trucks)	910	Truck wash road to workshop	190	Haul road to backfill plant	400	<p>Compliant Observation</p> <p>All of the roads listed in Table 6 of this condition were sealed prior to the commencement of ore extraction in 2012. It was stated that some repair and resealing works have been required across the site since 2012. It was stated that local contractors are available for repairing site roads as required.</p> <p>In field inspections during this March 2022 audit, the Auditors observed that the general condition of some sections of on-site sealed roads has deteriorated since the February 2019 audit. In particular, the sealed road from the mill to the rail load out area showed: a) potholes and worn/uneven road shoulders; and b) heavy vehicle tyre tracks off the narrow sealed surface.</p>	 <p>Photos 4 and 5 – Road from mill to rail load out area showing potholes and worn shoulders, and tyre tracks off the narrow sealed surface (9 March 2022)</p>	<p>Ob 28 – To be investigated.</p>
Road Status	Road	Approximate Length (m)																								
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		Observation No. 28 – BHOP should prioritise the repair, resealing and possible widening (as required) of the sealed roads identified in Table 6 of this condition, potentially in conjunction with Mod 6 works, to minimise potential dust emissions from these roads arising from vehicle movements and/or high winds.	
<p>Schedule 3 – Condition 7 – Air Quality and Greenhouse Gas – Operating Conditions</p> <p>Ore crushing shall only be undertaken in a fully-enclosed structure that is designed, operated and maintained to ensure internal negative internal air pressure relative to ambient (external) conditions. The enclosure and associated emissions controls must be designed, constructed, operated and maintained to ensure that visible fugitive emissions from the enclosure are minimised.</p>	Compliant	<p>Ore crushing at BHOP occurs within a fully-enclosed structure which is designed, operated and maintained to ensure internal negative air pressure is maintained.</p> <p>It was stated that daily inspections are conducted by operators at the mill to ensure that negative air pressure is maintained within this facility. It was stated that these inspections are visual inspections only, and lids to filter bags can be opened for inspection purposes as required.</p> <p>Quarterly point source emissions testing is conducted by service provider, Assured Environmental, at a dedicated sampling port on the emission point of the Crusher Baghouse. This testing regime aims to ensure that visible fugitive dust emissions from the enclosure are minimised relative to ambient (external) conditions and remain within limits defined within Table 5 in Project Approval Schedule 3, condition 4.</p> <p>It was stated that a real-time particulate monitor is in the process of being purchased (i.e. has been budgeted for) and is anticipated to be installed within the crusher baghouse stack by mid-2022.</p>	
<p>Schedule 3 – Condition 8 – Air Quality and Greenhouse Gas – Operating Conditions</p> <p>A chemical dust suppressant shall be applied as per the manufacturer's specification, or more often as required, to all 'free areas' identified in the figure in Appendix 4.</p>	Compliant	<p>In field inspections during this March 2022 audit, the Auditors observed extensive use of dust suppressant. It was stated that dust suppressant is applied as required, via a BHOP-owned water truck.</p> <p>As of March 2022, BHOP uses 'Total Ground Control' dust suppressant in the 'free areas' (i.e. 'free surfaces') identified in the figure in Appendix 4 of the Project Approval. It was stated that 'Dustbinder' dust suppressant is used on unsealed roads.</p> <p>It was stated that Total Ground Control and Dustbinder have also been used on TSF2 in the past two years to March 2022.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
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		<p>The Auditors sighted selected supplier quotes and Pronto system purchase orders for dust suppressants. The most recent purchase orders prior to March 2022, were as follows:</p> <ul style="list-style-type: none"> • ‘Total Ground Control’ (supplier, RST), PO number 88987 of 12 August 2021, for \$49,500.00. • ‘Dustbinder’ (supplier, Dustbinder), PO number 86137 of 23 March 2021, for \$28,720.  <p>Photos 6 and 7 – Examples of application of dust suppressant on free area near the telecommunications tower (7 March 2022)</p>	
<p>Schedule 3 – Condition 9 – Air Quality and Greenhouse Gas – Operating Conditions</p> <p>All aboveground conveyors and transfer points prior to the grinding circuit (SAG and ball mills) shall be enclosed.</p>	Compliant	<p>Since July 2020, BHOP has operated the mill on an “8 days on / 6 days off” schedule. Under this schedule, the mill was operational during the audit field inspection on 7 March 2022, and was not operational during the audit field inspection on 9 March 2022.</p> <p>All above ground conveyors and transfer points located prior to the grinding circuit (i.e. SAG and ball mills) were observed to be enclosed (i.e. incorporated into the original plant design and construction of the BHOP Rasp Mine mill).</p> <p>During the field inspection on 7 March 2022 (i.e. when the mill was operational), there was no evidence of any visible fugitive dust emissions emanating from BHOP’s above ground conveyors and transfer points within the mill/processing plant area.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
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		 <p>Photos 8 and 9 – Examples of covered conveyors and enclosed transfer points within the BHOP mill/processing plant area (7 March 2022)</p>	
<p>Schedule 3 – Condition 10 – Air Quality and Greenhouse Gas – Operating Conditions</p> <p>Video recording equipment shall be installed to assist in the active management of emissions from the tailings storage facility.</p>	<p>Compliant Observation</p>	<p>As noted in the 2016 and 2019 audit reports, it was stated that video recording equipment was previously installed for an embankment lift on TSF1.</p> <p>However, BHOP has never used TSF1 for tailings deposition. As noted in section 1.6 (page 12) of the Golder Associates report: “Rasp Mine – Tailings and Waste Rock Management for MOD 6” (dated June 2021, report no. 1896230-R-054-Rev1) for BHOP’s Mod 6 application (Appendix B1 – Tailings and Storage Management):</p> <p>“In the original Environmental Assessment (EA) for the Project it was planned for tailing to be placed in both above ground tailing storage facilities and underground, via the Backfill Plant, to fill mining voids. The tailing waste stream from ore processing has been approved to be deposited in the historic tailing facility (TSF1) and in the disused Blackwood Pit (TSF2). BHOP chose to deposit tailing in TSF2 and not use TSF1. This decision was based on the greater capacity of TSF2 (3.1 Mt) compared to the capacity of TSF1 (970,000 t) and the significant construction costs associated with the use of TSF1 (\$7.2 M) compared to the cost of extending TSF2 (\$3.5 M).”</p> <p>Auditor’s Note – This condition could be updated to refer to TSF2 and TSF3 instead of the undefined “tailings storage facility”.</p>	<p>Ob 29 – To be actioned.</p>

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
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		<p>During this March 2022 audit, the Auditors observed two cameras in operation at TSF2, via real-time images displayed on a computer monitor in the BHOP Environment Office. It was stated that these cameras were installed in 2019 (after the February 2019 audit), and record images for up to 48 hours.</p> <p>Observation No. 29 – In addition to the Environment Office, BHOP could display the real-time TSF2 camera images in the Emergency Services Office, which may assist BHOP in responding to visible dust emissions from TSF2 in a timely manner when the Environment Office is not occupied (e.g. on weekends or if environmental personnel are in the field and not in line-of-sight of TSF2).</p>  <p>Photo 10 – Computer monitor in BHOP Environment Office showing two cameras in operation at TSF2 (Blackwood Pit) (7 March 2022)</p>	
<p>Schedule 3 – Condition 11 – Air Quality and Greenhouse Gas – Air Quality Management Plan</p> <p>The Proponent shall prepare and implement a detailed Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with EPA and submitted to the Secretary for approval prior to the commencement of construction on the site;</p>	<p>Non-compliant (low risk)</p> <p>3 Observations</p>	<p>As of March 2022, BHOP’s current Air Quality Management Plan (AQMP) is Revision No. 3, issued on 25 June 2019, Doc ID: BHO-PLN-ENV-001. The AQMP is available on the CBH website.</p> <p>The Auditors sighted a BHOP email of 20 February 2019, with an attachment of an updated Air Quality Management Plan (2019), and other updated management plans, being submitted to the DPE for its review. The attachments to the BHOP email were not sighted.</p>	<p>NC – TSF Spray system under construction.</p> <p>Ob 30 – To be actioned.</p> <p>Ob 31 – To be actioned.</p> <p>Ob 32 – To be actioned.</p>

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
(b) identify all major sources of particulates and other air pollutants that may be emitted from the project, being both point source and diffuse emissions, including identification of the potential for lead contamination to be carried by these particulates; (c) include an air quality monitoring program that: <ul style="list-style-type: none"> provides a real-time monitoring system of dust emissions around the perimeter of TSF2 that triggers an automated water spray system prior to adverse meteorological conditions occurring; is capable of measuring lead concentrations located in the prevailing down wind direction near the perimeter of TSF2; provides for periodic point source monitoring at Point 1 (Ventilation Shaft) and Point 2 (Process Enclosure/ Baghouse Stack); provides for continuous ambient monitoring across an ambient air quality and dust monitoring network comprising no fewer than ten monitoring locations (Points 3 to 12) for total suspended particulates, PM₁₀, lead and dust deposition. Monitoring locations shall be informed by the outcomes of the air quality assessments presented in the EA and PPR and identified in consultation with EPA; and provides for continuous meteorological monitoring using a meteorological monitoring station located on the site; is consistent with the requirements of <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> (DECC, 2007), the <i>Protection of the Environment Operations Act 1997</i> and the <i>Protection of the Environment (Clean Air) Regulation 2010</i>. 		<p>During this March 2022 audit, there was evidence that BHOP is implementing the AQMP, subject to some isolated examples identified in the non-compliance below. Refer to condition 5 of this Schedule for examples of implementation of the AQMP.</p> <p>Appendix E of the AQMP comprises an Air Quality Monitoring Program, dated February 2019.</p> <p>BHOP also has what appears to be a redundant Air Quality Monitoring Program Management Plan (AQMPMP), Revision No. 2, issued on 28 July 2016, Doc ID: BHO-PLN-ENV-0010. The AQMPMP is available on the CBH website.</p> <p>Observation No. 30 – BHOP could potentially delete the Air Quality Monitoring Program Management Plan (issued on 28 July 2016), which appears to be redundant given the inclusion of the Air Quality Monitoring Program (dated February 2019) as Appendix E of the Air Quality Management Plan.</p> <p>Observation No. 31 – Figure 1 in the Air Quality Management Plan refers to the possibly redundant Air Quality Monitoring Program Management Plan (issued on 28 July 2016).</p> <p>In relation to the paragraphs of this condition:</p> <p>(a) Appendix D to the AQMP reproduces email correspondence with the EPA from March 2016 to March 2019. It is considered that the requirement for submission of the AQMP to the Secretary for approval prior to the commencement of construction on the site does not apply to subsequent revisions of the AQMP.</p> <p>(b) Section 8 of the AQMP identifies pollutants that may be emitted from the project, being both point source and diffuse emissions, including identification of the potential for lead contamination to be carried by these particulates.</p> <p>(c) The Air Quality Monitoring Program (in Appendix E of the AQMP) references a number of Procedures for Air Quality Monitoring (section 8) and generally satisfies the dot points in paragraph (c).</p>	

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<p>(d) pro-active and reactive management and response mechanisms for particulates with specific reference to measures to be implemented and actions to be taken to minimise and prevent potential elevated air quality impacts (including ambient air and deposited dust impacts) on surrounding land uses as a consequence of meteorological conditions, upsets within the project, or the mode of operation of the project at any time;</p> <p>(e) procedures to review and refine the reactive management triggers for wind speed and dust concentrations;</p> <p>(f) procedures and processes for monitoring ambient dust and deposited dust impacts;</p> <p>(g) provision for regular review of dust monitoring data, with comparison of monitoring data with that assumed and predicted in the documents referred to under Condition 2 of Schedule 2;</p> <p>(h) details of measures to be implemented to address any situation in which monitored dust impacts exceed those assumed and predicted in the documents referred to under Condition 2 of Schedule 2;</p> <p>(i) specific complaints management procedures in the event that dust monitoring indicates elevated offsite impacts;</p> <p>(j) procedures for the minimisation of dust generation on the site;</p> <p>(k) protocols for regular maintenance of plant and equipment to minimise the potential for elevated dust generation, leaks and fugitive emissions; and</p> <p>(l) a contingency plan should an incident, upset or other initiating factor lead to elevated dust impacts, whether above normal operating conditions or above environmental performance goals/ limits.</p>		<p>(d) Section 10 of the AQMP describes management strategies including measures to manage air quality impacts including: exposed areas (section 10.1), sealed roads (section 10.3), TSF wind erosion (section 10.5), transfer to/from crushed ore storage bin (section 10.6), ventilation exhaust (section 10.7), crusher circuit (section 10.10), vehicle wash facilities (section 10.15), and meteorological forecasting to guide dust management (section 10.18).</p> <p>(e) The AQMP does not describe procedures to review and refine the reactive management triggers for wind speed and dust concentrations. Refer to non-compliance below.</p> <p>(f) Sections 4 and 5 of the Air Quality Monitoring Program include procedures and processes for monitoring ambient dust and deposited dust impacts.</p> <p>(g) The Air Quality Monitoring Program includes a review of baseline air quality monitoring data and predicted impacts.</p> <p>(h) Section 15 (TARPs) of the AQMP includes details of measures to be implemented to address any situation in which monitored dust impacts exceed those assumed and predicted.</p> <p>(i) Section 12 of the AQMP describes complaints management procedures (in relation to documentation and recording of information).</p> <p>(j) Refer to comments for paragraph (d) above.</p> <p>(k) Appendix B of the AQMP includes air quality controls within Rasp Mine Procedures, including requirements to regularly inspect plant and equipment. However there are no protocols in the AQMP or Air Quality Monitoring Program for regular maintenance (as distinct from regular inspection) of plant and equipment to minimise the potential for elevated dust generation, leaks and fugitive emissions. Refer to non-compliance below.</p> <p>(l) The AQMP does not include a contingency plan should an incident, upset or other initiating factor lead to elevated dust impacts, whether above normal operating conditions or above environmental performance goals/ limits. Refer to non-compliance below.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Non-compliant (low risk) – As of March 2022:</p> <ul style="list-style-type: none"> • BHOP has not implemented some aspects of the Air Quality Management Plan (AQMP) issued on 25 June 2019, including: <ul style="list-style-type: none"> ○ the water spray system on TSF2 was not installed and tested by the intended date of 31 March 2021 referred to in section 10.5.1 of the AQMP – it is acknowledged that achieving this installation and testing date was dependent on construction of the TSF2 Embankments being completed by the end of October 2019 when in fact, completion occurred on 8 July 2021; and ○ there is no functional water spray system on the ROM Pad – Table B1 in the AQMP includes the following control action for ‘ROM Stockpile Wind Erosion’: “Water sprays will be mounted on the ROM stockpile wind breaks and directed at stockpiles and haul truck dumping areas.” • The content of the AQMP does not satisfy the following requirements in paragraphs (e), (k) and (l) of this condition: <ul style="list-style-type: none"> (e) The AQMP does not describe procedures to review and refine the reactive management triggers for wind speed and dust concentrations; (k) There are no protocols in the AQMP for regular maintenance of plant and equipment to minimise the potential for elevated dust generation, leaks and fugitive emissions; and (l) There is no contingency plan in the AQMP should an incident, upset or other initiating factor lead to elevated dust impacts, whether above normal operating conditions or above environmental performance goals/limits. <p>Observation No. 32 – BHOP should review and update Table 7 in the Air Quality Management Plan, which:</p> <ul style="list-style-type: none"> • does not follow accepted industry practice of assigning increasing numeric scores for increasing severity of consequence categories; • describes only two categories of ‘probability’; • describes only three risk classifications of low, medium and high; 	

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		<ul style="list-style-type: none"> does not clearly define control actions (e.g. frequency of application of chemical dust suppressant is not defined, and the 80% control figure is not referable to a relevant standard); and does not clearly identify residual risk after the implementation of controls. 	
<p>Schedule 3 – Condition 12 – Lead Awareness and Public Health – Contribution to Public Blood lead Monitoring & Public Education</p> <p>During the implementation of the project, the Proponent shall make a reasonable contribution towards the cost of:</p> <p>(a) public health monitoring, particularly in relation to child blood lead levels; and</p> <p>(b) public education campaigns about the health risks associated with lead, to the satisfaction of the Secretary.</p> <p><i>Note: The Secretary will consult with the Director-General of the NSW Department of Health on the reasonableness of the proposed contribution prior to making any decisions under this condition, and determine the date upon which the contributions shall commence.</i></p>	<p>Compliant</p> <p>3 Observations</p>	<p>It was stated that during the audit period, BHOP has not received any correspondence from the DPE regarding what constitutes a “reasonable contribution” under this condition.</p> <p>Appendix C of BHOP’s current Community Lead Management Plan (CLMP) as referred to in Project Approval Schedule 3, condition 13, provides “Information for Financial Contribution” under this condition. Appendix C of the CLMP states:</p> <p>“In consultation with the Broken Hill Lead Reference Group, BHOP developed the Community Lead Management Plan which outlines the arrangements for the contribution and states that the ‘reasonable contribution’ will be up to \$50,000. Section 5 also states that the funds shall be made to the Broken Hill Child & Family Health Centre (BHCFC) annually for the purposes as outlined above.</p> <p>To obtain funding the BHCFC is requested to submit a proposal outlining [Auditor’s Note – “outing” should be “outlining”] the items for expenditure consistent with the requirements of the Project Approval. This proposal is required to be submitted by August each year to enable BHOP to make budgetary provisions for the following year (BHOP operates on a calendar year) and review the proposal to check it is in line with the Project Approval.”</p> <p>As stated in section 8 of the CLMP: “BHOP funding will be up to \$50,000 in any calendar year.” This annual amount does not accrue if the \$50,000 is not used in that year.</p> <p>It was stated that in 2019, BHOP received a funding submission for a proposed study on child health, and BHOP paid \$50,000 to fund this study. However, this amount was refunded to BHOP due to the study being rejected by the relevant University Ethics Committee.</p>	<p>Ob 33 – To be actioned.</p> <p>Ob 34 – To be considered.</p> <p>Ob 35 – To be considered.</p>

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		<p>In the absence of receiving suitable formal proposals, BHOP did not provide funding under Appendix C of the CLMP in 2020 or 2021.</p> <p>Observation No. 33 – In Appendix C of the Community Lead Management Plan, the reference to “Section 5” should instead refer to “Section 8”.</p> <p>Observation No. 34 – BHOP could review the Community Lead Management Plan to include details of any other public health monitoring and public education campaigns which BHOP supports.</p> <p>Observation No. 35 – In order to increase the likelihood of the funding being used, BHOP could consider amending section 8 and Appendix C of the Community Lead Management Plan to specify that other Department of Health agencies (i.e. apart from the BHCFC) could submit a proposal for potential funding.</p> <p>Auditor’s Note – The wording of this condition could be revised to be consistent with the wording in paragraph (c) of Project Approval Schedule 3, condition 13.</p>	
<p>Schedule 3 – Condition 13 – Lead Awareness and Public Health – Lead Management Plan</p> <p>The Proponent shall prepare and implement a Lead Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with the Lead Reference Group, including the NSW Department of Health (Western NSW Local Health District) and Council;</p> <p>(b) be submitted to the Secretary for approval by 30 June 2011;</p> <p>(c) outline the proposed commitment towards the cost of:</p> <ul style="list-style-type: none"> public health monitoring, particularly in relation to child blood lead levels, and tracking of this data over time; and public education campaigns about the health risks associated with lead, including lead hygiene, lead and children, tank water lead risks and soil lead contamination risks. 	<p>Compliant</p> <p>3 Observations</p>	<p>On the CBH website, BHOP’s Community Lead Management Plan (CLMP) is labelled ‘Final v2’, issued in August 2016, Doc ID: BHO-PLN-ENV-008. The CLMP has not been revised since the February 2019 audit.</p> <p>BHOP provided the Auditors with a Lead Management Plan (LMP) which was most recently issued on 3 June 2021 (Doc ID: BHO-PLN-HLT-001, Revision No. 4). As noted in the 2019 audit report, the LMP exists to facilitate and describe management actions and controls for BHOP employees and contractors (i.e. a health and safety focus within the operation). The LMP is not on the CBH website.</p> <p>The Auditors consider that the LMP is not an Environmental Management Plan for the purpose of this condition, and that the CLMP is the relevant Management Plan for assessment of BHOP’s compliance against this condition.</p> <p>In relation to the paragraphs of this condition:</p> <p>(a) Appendix D of the CLMP includes records of detailed consultation with the agencies named in this paragraph.</p>	<p>Ob 36 – To be considered.</p> <p>Ob 37 – To be actioned.</p> <p>Ob 38 – To be actioned.</p>

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<p>(d) identify additional reasonable and feasible measures that could be implemented either on site or in the areas adjoining the site to minimise the potential lead impacts of the project and “free areas”;</p> <p>(e) include a program for the staged implementation of the measures identified in (d) above in the event that dust emissions are higher than predicted or the public health monitoring suggests further action is required to reduce blood lead levels in the environment surrounding the site; and</p> <p>(f) include a detailed communication strategy, that outlines how the relevant dust and blood level monitoring data would be reported on the Proponent’s website along with any relevant public education material.</p>		<p>(b) It is considered that the requirement for submission of the CLMP to the Secretary for approval by the end of June 2011 does not apply to subsequent revisions of the CLMP.</p> <p>(c) Section 8 and Appendix C of the CLMP outline BHOP’s proposed commitment towards the cost of public health monitoring and public education campaigns about the health risks of lead.</p> <p>(d) Sections 7.1 and 7.2 of the CLMP identify additional ‘contingency’ measures (e.g. provide capping over sections of the ‘free areas’ with inert waste rock) that could be implemented where air quality trends indicate an increase in lead emissions which can be attributed to the Rasp Mine.</p> <p>(e) Section 7.3 of the CLMP includes a four step program for the staged implementation of contingency measures in paragraph (d) (i.e. step 1 is triggers for an investigation, step 2 is the undertaking of the investigation, step 3 is to review relevant site operation(s) and implement applicable contingency measures, and step 4 is to review future data to monitor impact and [Auditor’s Note – missing word, assumed to be “determine”] if further actions are required.</p> <p>(f) Section 9.2 of the CLMP states that BHOP communicates:</p> <ul style="list-style-type: none"> • air quality monitoring data on the CBH website (updated monthly) and raw air quality monitoring data to the Far West Local Health District; and • blood lead level monitoring data for Broken Hill via a link on the CBH website to the Far West Local Health District information website (LeadSmart). <p>During this March 2022 audit, there was evidence that BHOP was implementing the CLMP, inclusive of:</p> <ul style="list-style-type: none"> • BHOP being represented at and/or providing activity reports to meetings of the Broken Hill Lead Reference Group; and • BHOP’s participation in the Child and Family Health Centre Lead Week program in October 2019 (not held in October 2020 or October 2021 due to then current COVID-19 restrictions). 	

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		<p>The Auditors sighted the minutes of the Broken Hill Lead Reference Group meeting held on 18 November 2021 via Teams. BHOP did not have an attendee at this meeting, but provided a one page Activities Report (May 2021 – November 2021) which was reproduced in the minutes.</p> <p>The minutes of the Broken Hill Lead Reference Group meeting held on 18 November 2021 included attached information on blood lead level trends from public health monitoring of Broken Hill children aged 6 months to under 5 years, completed from Q1 2012 to 2021 YTD.</p> <p>During this March 2022 audit, BHOP was unable to demonstrate that it has sufficient data (with analysis of trends) to identify whether public health monitoring suggests further action is required to reduce blood lead levels in the environment surrounding the site (as referred to in paragraph (e) of this condition).</p> <p>Observation No. 36 – BHOP could report on community blood lead levels and analyse blood level trends in future Annual Environmental Management Reports, possibly using information in or attached to the Minutes of Lead Reference Group meetings for supporting data.</p> <p>Observation No. 37 – As of March 2022, BHOP's Community Lead Management Plan (CLMP) is overdue for revision and potential update. Revision of the CLMP could identify any additional reasonable and feasible measures as referred to in paragraph (d) of this condition, based on relevant data from the Mod 6 Human Health Risk Assessment and public health monitoring of blood lead levels.</p> <p>Observation No. 38 – In the next revision of the Community Lead Management Plan, Appendix A (Sensitive Receptor Locations) and Appendix B (Air Quality Monitoring Locations) could be reviewed and updated.</p>	
<p>Schedule 3 – Condition 14 – Lead Awareness and Public Health – Updated Human Health Risk Assessment</p> <p>Within one year of the commencement of operation of the project, and every five years thereafter, unless otherwise agreed by the Secretary, the Proponent shall update the</p>	Administrative non-compliance	<p><u>2015 Human Health Risk Assessment (HHRA)</u></p> <p>A Human Health Risk Assessment Report was prepared by external consultant, Toxikos / Pacific Environment in 2014 – 2015. As of March 2022, the HHRA Report (Revision 4, dated 2 April 2015) is available on the CBH website.</p>	<p>ANC – Will obtain retrospective endorsement from DPE if possible.</p> <p>ANC – HHRA report to be provided to the</p>

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<p>human health risk assessment prepared for the project and presented in the EA to the satisfaction of the Secretary. The updated risk assessment shall:</p> <p>(a) be prepared by a suitably-qualified expert whose appointment has been endorsed by the Secretary;</p> <p>(b) take into account monitoring data collected under this approval, and such other information as may be relevant to the assessment; and</p> <p>(c) be submitted to the Secretary, EPA and the Western NSW Local Health District within one month of its completion.</p>		<p><u>2020 Human Health Risk Assessment (HHRA)</u></p> <p>A Human Health Risk Assessment (HHRA) report was prepared by external consultant, SLR, to support BHOP’s Mod 6 application (New Tailing Storage Facility). The HHRA report is titled: “Human Health Risk Assessment for Rasp Mine, Modification 6” (SLR doc ref: 640.12028-R01-v3.0, dated 14 December 2020). As of March 2022, the December 2020 HHRA is not available on the CBH website.</p> <p>The Overall Conclusions (section 5) of the December 2020 HHRA report were:</p> <ul style="list-style-type: none"> for Lead (Pb): “Overall, BPb [blood lead] concentrations in 1-2 year old children living in Broken Hill are not anticipated to be affected by activities associated with the Proposal.”; and for other metals: “It is concluded the risk of exceeding health-based toxicity reference values as a result of the Proposal is very low, and cancer risks are considered negligible or acceptable. The assessment is conservative.” <p>On 24 May 2021, SLR issued an Addendum to the December 2020 HHRA (SLR doc no. 640.30198.00000-L01-v1.1-20210524), in response to (page 1): “minor changes to the project description which relate to the location and alignment of the Tails Harvesting Haul Road.”</p> <p>In the Addendum, SLR concluded (page 2): “The minor changes to the project description do not change the HHRA conclusions.”</p> <p>In relation to paragraph (b) of this condition, the 2020 HHRA includes monitoring data and other relevant information. For example, section 2.6.1 of the 2020 HHRA, “Table 2-3 – Existing Pb concentrations in topsoil of Broken Hill by district or specific location”, includes details of externally sourced monitoring data and BHOP monitoring data used to derive the HHRA data. As noted in section 2.6.1:</p> <p>“Therefore, for this HHRA a combination of data from the BHOP sampling campaign and the Yang and Cattle (2015) research were used, with the rationale explained in the footnotes to Table 2-3.”</p>	<p>Secretary, EPA and Western NSW Local Health District.</p>

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions																	
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		<p>Administrative non-compliance – During this March 2022 audit, BHOP was unable to provide evidence of compliance against paragraphs (a) and (c) of this condition as follows:</p> <ul style="list-style-type: none"> (a) BHOP was unable to provide evidence that the preparer of the 2020 HHRA report; Tarah Hagen, MSc, DABT, RACTRA, was endorsed by the Secretary as a suitably qualified expert; and (c) BHOP was unable to provide evidence that the HHRA report had been submitted to the Secretary, EPA and Western NSW Local Health District within one month of its completion. <p>BHOP’s Mod 6 application, of which the 2020 HHRA formed part, was approved on 16 March 2022. The Auditors consider that the Mod 6 approval is evidence of the Secretary’s satisfaction with the 2020 HHRA.</p>															
<p>Schedule 3 – Condition 15 – Noise and Vibration – Hours of Operation</p> <p>Unless the Secretary agrees otherwise, the Proponent must comply with the operating hours in Table 6.1.</p> <p><small>Table 6.1: Operating Hours</small></p> <table border="1"> <thead> <tr> <th>Activity</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>Construction, excluding construction of the EEL</td> <td>7 am to 6 pm, Monday to Friday 8 am to 1 pm, Saturday</td> </tr> <tr> <td>Capping and rehabilitation of TSF2</td> <td>No activities on Sundays or public holidays</td> </tr> <tr> <td>Shunting of concentrate wagons</td> <td>7 am and 6 pm on any day</td> </tr> <tr> <td>Production rock blasting</td> <td>6:45am and 7:15pm on any day</td> </tr> <tr> <td>Transporting cement to the cement silo Loading the cement silo</td> <td>7 am to 7 pm on any day</td> </tr> <tr> <td>All other activities, including construction of the EEL</td> <td>24 hours a day, 7 days a week</td> </tr> </tbody> </table>	Activity	Hours	Construction, excluding construction of the EEL	7 am to 6 pm, Monday to Friday 8 am to 1 pm, Saturday	Capping and rehabilitation of TSF2	No activities on Sundays or public holidays	Shunting of concentrate wagons	7 am and 6 pm on any day	Production rock blasting	6:45am and 7:15pm on any day	Transporting cement to the cement silo Loading the cement silo	7 am to 7 pm on any day	All other activities, including construction of the EEL	24 hours a day, 7 days a week	<p>Compliant Observation</p>	<p>Relevant BHOP personnel were aware of and understood this condition.</p> <p>As of March 2022, BHOP has not sought agreement from the Secretary to vary these operating hours.</p> <p>It was noted that crushing of ore (which in Table 6.1 is included as “all other activities”) is authorised to occur 24 hours a day, 7 days a week and is not restricted to daylight hours.</p> <p>The operating hours defined in Table 6.1 are available to external stakeholders via the availability of the Project Approval 07_0018 on the CBH website.</p> <p>Observation No. 39 – Following Mod 6 approval, the requirements of this condition could be proactively communicated on the CBH website, to allow these requirements to be known and understood by the community (i.e. in addition to being available via Table 6.1 in the Project Approval).</p>	<p>Ob 39 – To be considered.</p>
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<p>Schedule 3 – Condition 16 – Noise and Vibration</p> <p>Deleted.</p>	<p>Note</p>	<p>There are no requirements in this condition.</p>															

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<p>Schedule 3 – Condition 17 – Noise and Vibration – Noise Limits</p> <p>The Proponent shall ensure that the noise generated by the project does not exceed the criteria in Table 7.</p> <p><i>Table 7: Operational Noise Criteria</i></p> <table border="1"> <thead> <tr> <th>Location</th> <th>^a Day (dB(A))</th> <th>^b Evening (dB(A))</th> <th>^c Night (dB(A))</th> </tr> </thead> <tbody> <tr><td>A1 – Piper Street North</td><td>38</td><td>37</td><td>35</td></tr> <tr><td>A2 – Piper Street Central</td><td>38</td><td>37</td><td>35</td></tr> <tr><td>A3 – Eyre Street North</td><td>44</td><td>41</td><td>39</td></tr> <tr><td>A4 – Eyre Street Central</td><td>44</td><td>41</td><td>39</td></tr> <tr><td>A5 – Eyre Street South</td><td>44</td><td>41</td><td>39</td></tr> <tr><td>A6 – Bonanza and Gypsum Streets</td><td>48</td><td>41</td><td>39</td></tr> <tr><td>A7 – Carbon Street</td><td>35</td><td>35</td><td>35</td></tr> <tr><td>A8 – South Road</td><td>48</td><td>39</td><td>39</td></tr> <tr><td>A9 – Crystal Street</td><td>46</td><td>39</td><td>39</td></tr> <tr><td>A10 – Barnet and Blende Streets</td><td>42</td><td>41</td><td>35</td></tr> <tr><td>A11 – Crystal Street</td><td>46</td><td>39</td><td>39</td></tr> <tr><td>A12 – Crystal Street</td><td>46</td><td>39</td><td>39</td></tr> <tr><td>A13 – Eyre Street North 2</td><td>38</td><td>35</td><td>35</td></tr> <tr><td>A14 – Piper Street North</td><td>35</td><td>35</td><td>35</td></tr> </tbody> </table> <p><i>Notes to Condition 17:</i></p> <ul style="list-style-type: none"> • Receiver locations are as identified in the noise assessments presented in the EA and PPR; • Noise limits are to be measured in accordance with the NSW Industrial Noise Policy (EPA, 2000); • ^a Day is defined as 7:00am to 6:00pm Mondays to Saturdays and 8:00am to 6:00pm on Sundays and public holidays; • ^b Evening is defined as 6:00pm to 10:00pm on any day; and • ^c Night is defined as 10:00pm to 7:00 am Mondays to Saturdays and 10:00pm to 8:00am on Sundays and public holidays. 	Location	^a Day (dB(A))	^b Evening (dB(A))	^c Night (dB(A))	A1 – Piper Street North	38	37	35	A2 – Piper Street Central	38	37	35	A3 – Eyre Street North	44	41	39	A4 – Eyre Street Central	44	41	39	A5 – Eyre Street South	44	41	39	A6 – Bonanza and Gypsum Streets	48	41	39	A7 – Carbon Street	35	35	35	A8 – South Road	48	39	39	A9 – Crystal Street	46	39	39	A10 – Barnet and Blende Streets	42	41	35	A11 – Crystal Street	46	39	39	A12 – Crystal Street	46	39	39	A13 – Eyre Street North 2	38	35	35	A14 – Piper Street North	35	35	35	<p>Not verified</p> <p>5 Observations</p>	<p><u>Noise monitoring by consultant</u></p> <p>During the audit period, environmental noise monitoring surveys were conducted, and reports issued by consultant, EMM Consulting (EMM).</p> <p>During the audit period, these noise surveys were completed from: a) 28 to 30 October 2019 (report dated 28 November 2019); b) 15 to 17 December 2020 (report dated 14 January 2021); and c) 3 to 5 May 2021 (report dated 14 May 2021).</p> <p>It was stated that future noise surveys will be conducted in April/May due to more stable atmospheric conditions at this time of year.</p> <p>As of March 2022, it was not verified whether the 2020 and 2021 noise surveys occurred when the BHOP mill was in operation (i.e. whether these surveys occurred during the “8 days on” phase of the “8 days on / 6 days off” schedule, in place since July 2020).</p> <p>Observation No. 40 – BHOP could ensure that: a) attended noise monitoring surveys are conducted when the mill is operational (i.e. when project-generated noise is likely to be higher than when the mill is non-operational); and b) survey reports clearly define the mill’s operational status.</p> <p>The external noise surveys were conducted at the 14 locations identified in Table 7 of this condition. Only night-time noise was surveyed.</p> <p><u>October 2019 Noise Survey</u></p> <p>In its report of 28 November 2019, EMM concluded that:</p> <p>“The monitoring assessment found that site L_{Aeq,15min} noise contributions satisfied the relevant limits during the measurements at all assessment locations.”</p> <p><u>December 2020 Noise Survey</u></p> <p>In its report of 14 January 2021, EMM concluded that:</p> <p>“The monitoring assessment found that site L_{Aeq,15min} noise contributions satisfied the relevant limits during the measurements at all assessment locations.”</p>	<p>NV – Potential noise exceedances to be reviewed.</p> <p>Ob 40 – To be actioned.</p> <p>Ob 41 – To be considered.</p> <p>Ob 42 – To be actioned.</p> <p>Ob 43 – To be actioned.</p> <p>Ob 44 – To be considered.</p>
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		<p><u>May 2021 Noise Survey</u></p> <p>In its report of 14 May 2021, EMM concluded that:</p> <p>“The monitoring assessment found that site $L_{Aeq,15min}$ noise contributions satisfied the relevant limits during the measurements at all assessment locations, including where noise limits were not applicable due to windspeeds greater than 3m/s (at 10m aboveground level) or temperature inversion conditions, as measured at the on-site weather station.”</p> <p>Calibration certificates for noise meters utilised during the noise surveys were included within the appendices of the above noise survey reports.</p> <p><u>Noise monitoring by BHOP</u></p> <p>BHOP conducts noise monitoring, using a portable noise meter, at the locations identified in Table 7 of this condition.</p> <p>The Auditors sighted a sample of Environmental Noise Monitoring Sheets (not document controlled) completed by the Senior Environmental Advisor for attended monitoring at location A11 on the following dates (with monitoring commencing at times ranging from 7:00am to 8:00am, and of varying durations):</p> <ul style="list-style-type: none"> • 4, 5 and 26 August 2020; • 3, 7 and 23 September 2020; • 2, 9, 12, 28 and 29 October 2020; • 3, 9, 26 and 30 November 2020; and • 7 December 2020. <p>The loudest recorded noise in the above sample of Environmental Noise Monitoring Sheets occurred on 3 September 2020 at 7:49am, with a reading of 68 dB(A) for the event noted as “Rock breaker”. This reading exceeded the permitted day-time noise limit (46 dB(A)) at location A11.</p> <p>It was stated that as of March 2022, the operation’s rock breaker on the ROM pad only operates during the day (7:00am to 6:00pm) despite not being limited to these hours in Table 6.1 of Project Approval Schedule 3, condition 15.</p>	

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		<p>The above sample of Environmental Noise Monitoring Sheets included several instances of day-time noise exceedances at location A11. For example, on 9 October 2020 for monitoring which commenced at 7:00am:</p> <ul style="list-style-type: none"> • 51.2 dB(A) was recorded at “6:43am” (possibly meant to be 7:43am) for the event noted as “Bucket banging”; and • 55.5 dB(A) was recorded at “6:45am” (possibly meant to be 7:45am) for the event noted as “Dump truck turning on top of dump”. <p>The Environmental Noise Monitoring Sheets record wind speed, wind direction and cloud cover, but do not record or identify background noise levels. It is noted that BHOP did not receive any noise-related complaints against any of the above events.</p> <p>Not verified – At the time of writing this March 2022 audit report, it could not be verified whether BHOP has investigated all noise limit exceedances from internal noise monitoring, and eliminated the possibility that project-generated noise has caused or contributed to the exceedances.</p> <p>Observation No. 41 – BHOP could commence internal noise monitoring up to 30 minutes before 7:00am to establish the background noise level on that day before the commencement of day-time mining activities.</p> <p>Observation No. 42 – BHOP should formally investigate noise limit exceedances recorded during internal noise monitoring activities, to confirm that the exceedances are not attributable to noise generated by the project.</p> <p>During the field inspection on 9 March 2022, the Lead Auditor heard relatively loud operational noise emanating from on-site surface drilling activity near monitoring location A7 (Carbon Street).</p>	

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		 <p>Photo 11 – On-site surface drilling activity near noise monitoring location A7 (Carbon Street) (9 March 2022)</p> <p>Observation No. 43 – BHOP is encouraged to conduct regular noise surveys (i.e. using a calibrated noise meter) during Mod 6 works and any other activity (e.g. surface drilling near the site boundary), which could cause an exceedance of applicable noise limits at any monitoring location in Table 7 of this condition.</p> <p>Observation No. 44 – BHOP should consider engaging the external consultant (EMM) to conduct attended noise monitoring at times of day other than at ‘night’, to assess the operation’s compliance with ‘day’ and ‘evening’ noise limits in Table 7 of this condition.</p> <p>BHOP recognises that under the NSW Noise Policy for Industry, the Rasp Mine is required to comply with the maximum limit of amenity criteria of 65 dB $L_{Aeq(day)}$ specified for an urban/industrial interface area.</p> <p>Auditor’s Note – The NSW Industrial Noise Policy referred to in this condition was replaced in October 2017 by the NSW Noise Policy for Industry.</p>	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 3 – Condition 17A – Noise and Vibration – Noise Limits</p> <p>The daytime criteria in Table 7 of this approval do not apply when the following activities are being carried out:</p> <ul style="list-style-type: none"> (a) construction of the concrete batching plant and associated noise bund; (b) construction of TSF2, including: <ul style="list-style-type: none"> • embankment 2; • the spillway; • embankment 3; • embankment 1; (c) capping and rehabilitation of TSF2; and (d) construction of the cement silo and warehouse extension; and (e) crushing and screening activities associated with construction of TSF2 embankments. 	<p>Compliant</p>	<p>Relevant BHOP personnel were aware of and understood this condition.</p> <p>As of March 2022, the status of each activity in paragraphs (a) to (e) of this condition was as follows:</p> <ul style="list-style-type: none"> (a) construction of the concrete batching plant and associated noise bund was completed on 24 July 2018, with the commencement date unable to be verified; (b) construction of the TSF2 Spillway and Embankments 1, 2 and 3 has been completed (commenced on 11 June 2019 and completed on 30 April 2020 for the Spillway and TSF2 Embankment 2; and commenced on 27 July 2020 and completed on 8 July 2021 for TSF2 Embankments 1 and 3); (c) capping and rehabilitation of TSF2 had not commenced; (d) construction of the cement silo and warehouse extension has been completed, with the completion date(s) unable to be verified; and (e) crushing and screening activities associated with construction of the TSF2 embankments have been completed (commenced on 27 July 2020, with unspecified completion date). 	
<p>Schedule 3 – Condition 17B – Noise and Vibration – Noise Limits</p> <p>With regard to the activities specified in condition 17A(a)-(e) of this approval, the Proponent must:</p> <ul style="list-style-type: none"> (a) notify the Department prior to commencement and upon completion of each activity; (b) minimise the noise generated by these activities in accordance with the best practice requirements outlined in the <i>Interim Construction Noise Guideline</i> (DECC, 2009), or its latest version; and (c) ensure that the noise generated by the development does not cause exceedances of the amenity criteria of 65 dB L_{Aeq,(day)} specified for an urban/industrial interface area under the <i>NSW Industrial Noise Policy</i>. 	<p>Compliant</p>	<p>In relation to paragraphs (a), (b) and (c) of this condition:</p> <ul style="list-style-type: none"> (a) With one exception, the Auditors sighted notification letters from BHOP to the DPE for the commencement and completion dates identified in the supporting evidence/comments for Project Approval Schedule 3, condition 17A. The exception was a notification letter to the DPE regarding the commencement date for construction of the Concrete Batching Plant (CBP) could not be located. It was stated that prior notification of construction of the Concrete Batching Plant was provided to the DPE. 	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>(b) Item ID 3.3 in Table 6-2 (Environmental Management Activities & Controls) of the Construction Environment Management Plan – TSF2 Embankment (revision no. 6, dated 15 June 2020, Doc ID: BHO-PLN-ENV-012) states: “reasonable and feasible measures to minimise noise during construction will be implemented in accordance with the best practice requirements outlined in the Interim Construction Noise Guideline”, and provides details of these measures including “pre-starts / toolbox talks to outline the need to minimise noise”.</p> <p>Section 8.1 in BHOP’s Construction Environment Management Plan – Concrete Batching Plant (revision no. 1, dated 6 December 2017, Doc ID: BHO-PLN-ENV-011) states: “Noise modeling results indicated that with all proposed mitigation measures in place [described in rows 2.1 to 2.6 of Table 8-2], the site noise from standard hours construction works is predicted to satisfy the ICNG Noise Management Levels at all assessment locations.”</p> <p>(c) It was stated that BHOP did not record any exceedances of the relevant amenity criteria during the activities specified in Project Approval Schedule 3, condition 17A, paragraphs (a), (b), (d) and (e).</p> <p>Auditor’s Note – The NSW Industrial Noise Policy referred to in this condition was replaced in October 2017 by the NSW Noise Policy for Industry.</p>	
<p>Schedule 3 – Condition 17C – Noise and Vibration – Noise Limits</p> <p>The Proponent must not carry out any of the activities specified in condition 17A(a)-(c) concurrently.</p>	<p>Compliant</p>	<p>During the audit period, BHOP did not receive any noise-related complaint which alleged that any activities specified in paragraphs (a) to (c) of Project Approval Schedule 3, condition 17A, were being carried out concurrently.</p> <p>Item 1.2 in Table 8-2 of BHOP’s Construction Environment Management Plan – Concrete Batching Plant (6 December 2017) states: “Construction activities associated with the TSF2 embankments shall not be undertaken during the construction of the CBP.”</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions																																									
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response																																						
		Item ID 3.3 in Table 6-2 (Environmental Management Activities & Controls) of the Construction Environment Management Plan – TSF2 Embankment (15 June 2020) states: “Construction activities associated with the TSF2 embankments must be undertaken sequentially”.																																							
<p>Schedule 3 – Condition 18 – Noise and Vibration – Blasting Limits</p> <p>The Proponent shall ensure that blasting on the site does not cause exceedances of the criteria in Tables 8 and 9.</p> <p><i>Table 8: Blasting Criteria (excluding Block 7)</i></p> <table border="1"> <thead> <tr> <th>Location</th> <th>Airblast Overpressure (dB(Lin Peak))</th> <th>Ground Vibration (mm/s)</th> <th>* Allowable Exceedance</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Residence on privately owned land</td> <td>115</td> <td>5</td> <td>^b 5% of the total number of blasts over a 12-month period</td> </tr> <tr> <td>120</td> <td>10</td> <td>0%</td> </tr> <tr> <td>Public Infrastructure</td> <td>-</td> <td>100</td> <td>0%</td> </tr> </tbody> </table> <p><i>Table 9: Blasting Criteria (Block 7)</i></p> <table border="1"> <thead> <tr> <th>Location</th> <th>Airblast Overpressure (dB(Lin Peak))</th> <th>Ground Vibration (mm/s)</th> <th>* Allowable Exceedance</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Residence on privately owned land</td> <td>115</td> <td>^c 3 (interim)</td> <td>5% of the total number of blasts over a 12-month period</td> </tr> <tr> <td>120</td> <td>10</td> <td>0%</td> </tr> <tr> <td>Broken Hill Bowling Club, Italo (Bocce) Club, Heritage Items within CML7</td> <td>-</td> <td>50</td> <td>0%</td> </tr> <tr> <td>Perilya Southern Operations</td> <td>-</td> <td>100</td> <td>0%</td> </tr> <tr> <td>^d Public Infrastructure</td> <td>-</td> <td>100</td> <td>0%</td> </tr> </tbody> </table> <p>These criteria do not apply if the Proponent has a written agreement with the relevant owner to exceed these criteria, and has advised the Department in writing of the terms of this agreement.</p> <p><i>Notes to Tables 8 and 9</i></p> <ul style="list-style-type: none"> * The allowable exceedance must be calculated separately for development blasts and production blasts; ^a The 5% allowable exceedance does not apply to production blasts until the Proponent has successfully completed a Pollution Reduction Program aimed at achieving this goal, as required by the EPA under the Proponent's EPL (No. 12559), or as otherwise agreed with the EPA; ^b The interim criteria applies unless and until such time that the Proponent has written consent from the Secretary to apply site specific criteria in accordance with condition 19 of this approval; and ^c The Proponent must close South Road to pedestrians if blasts are expected to exceed a peak particle velocity ground vibration of 63 mm/s at the road reserve surface, while the blast firing occurs. 	Location	Airblast Overpressure (dB(Lin Peak))	Ground Vibration (mm/s)	* Allowable Exceedance	Residence on privately owned land	115	5	^b 5% of the total number of blasts over a 12-month period	120	10	0%	Public Infrastructure	-	100	0%	Location	Airblast Overpressure (dB(Lin Peak))	Ground Vibration (mm/s)	* Allowable Exceedance	Residence on privately owned land	115	^c 3 (interim)	5% of the total number of blasts over a 12-month period	120	10	0%	Broken Hill Bowling Club, Italo (Bocce) Club, Heritage Items within CML7	-	50	0%	Perilya Southern Operations	-	100	0%	^d Public Infrastructure	-	100	0%	<p>Non-compliant (low risk)</p> <p>Observation</p>	<p>Blast monitoring at the Rasp Mine is scheduled and conducted by personnel from BHOP's Environment Department. Personnel from BHOP's Technical Services Department are responsible for reviewing the blast vibration data.</p> <p>As of March 2022, BHOP maintains nine regulatory-compliance blast monitors, inclusive of six PA/EPL compliance monitors and three 'Dams Safety NSW' required monitors on the TSF2 embankments (one of which was installed in 2020 and the other two in 2021). BHOP maintains an additional three roving blast monitors. These monitors are listed in BHOP's Register of Blast Monitors (Excel spreadsheet), including calibration dates (calibration by Saros in Brisbane). It was stated that two new blast monitors are on site as of March 2022, but have not been installed, pending Mod 6 approval.</p> <p>As evidence of calibration of blast monitors, the Auditors sighted the following calibration records for the following selected blast monitors:</p> <ul style="list-style-type: none"> • Saros calibration certificate issued on 6 December 2021 for Micromate serial number UM14308; and • Saros calibration certificate issued on 24 November 2021 for Minimate serial number BE22003. <p>As of March 2022, the newer model of blast monitor, the Micromate, is used at all six compliance monitoring locations.</p> <p>During the audit period there was no identified exceedance of the blast overpressure and vibration criteria in Table 8 of this condition (i.e. excluding Block 7).</p> <p>In relation to Block 7 (Table 9 of this condition), it was stated that blasting in Block 7 occurred during the audit period.</p> <p>Section 5.13 in BHOP's 2019-2020 Annual Review (reporting period from 1 January 2019 to 30 April 2020) noted:</p>	<p>NC – NC was reported in AEMR and Annual Review. The NC had been ongoing due to minimal blasting occurring in Block 7. Block 7 blasting is currently in compliance. If a future NC develops it shall be reported as BHOP becomes aware of the situation.</p> <p>Ob 45 – To be considered as to how this is done.</p>
Location	Airblast Overpressure (dB(Lin Peak))	Ground Vibration (mm/s)	* Allowable Exceedance																																						
Residence on privately owned land	115	5	^b 5% of the total number of blasts over a 12-month period																																						
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Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>“In the Block 7 mining areas (including the Zinc Lodes), a total of 5 production blasts were fired during the reporting period. Two of those production blasts exceeded 3 mm/s at one or more of the compliance monitors. The percentage of production blasts exceeding 3 mm/s was 40%.”</p> <p>Section 5.13 in BHOP’s 2020-2021 Annual Review (reporting period from 1 May 2020 to 30 April 2021) noted:</p> <p>“In the Block 7 mining areas (including the Zinc Lodes), a total of 3 production blasts were fired during the reporting period, all exceeding 3 mm/s at one or more of the compliance monitors. The percentage of production blasts exceeding 3 mm/s was 100%.”</p> <p>Non-compliant (low risk) – During the audit period, BHOP exceeded the allowable 5% above 3mm/s limit (for ground vibration) of the total number of blasts over a 12 month period at Block 7 (V5 blast monitor).</p> <p><u>Airblast overpressure</u></p> <p>As noted in section 3 (page 12) of the Mod 6 Blasting Impact Assessment for the Proposed Boxcut and Portal/Decline at Rasp Mine, dated 1st March 2021 (prepared by consultant, Prism Mining):</p> <p>“Blast induced ground vibration is currently recorded at fixed monitoring locations (V1 to V6), with V1 to V3 being closest to the proposed boxcut (Figure 7), and with ‘roving’ monitors placed at other sensitive receivers as required. While overpressure is also monitored at these monitors, the containment of underground blasting does not generally result in blast induced overpressure at surface receivers. Overpressure will, however, provide a constraint to surface bench blasting within the boxcut itself and portal and decline development rounds that are fired from surface.”</p> <p>During the audit period, only underground blasting was conducted at the Rasp Mine. It was noted that Mod 6 works will involve surface bench blasting as noted in the Assessment extract above, and these surface blasting activities will cause overpressure at the surface.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		Observation No. 45 – BHOP's Technical Services Department could be requested to provide input into section 2.1 (Blasting) of each Monthly Environment Monitoring Report, regarding whether any airblast overpressure exceedance recorded against the relevant conditions of the Project Approval and EPL is attributable to blasting activities during the reporting period.	
<p>Schedule 3 – Condition 19 – Noise and Vibration – Blasting Limits</p> <p>The Proponent may establish site specific ground vibration criteria for residential receivers that may be affected by blasting operations in Block 7, to the satisfaction of the Secretary. These criteria must:</p> <p>(a) be prepared by a suitably qualified mining engineer;</p> <p>(b) be prepared in consultation with the EPA;</p> <p>(c) protect the amenity of all residences on privately owned land; and</p> <p>(d) be based on blast monitoring data for the Block 7 mining area.</p>	Compliant	It was stated that as of March 2022, BHOP is not aware of any site-specific ground vibration criteria being in place for residential receivers that may have been affected by blasting operations in Block 7.	
<p>Schedule 3 – Condition 19A – Noise and Vibration – Blast Frequency</p> <p>The Proponent may carry out a maximum of:</p> <p>(a) 1 production blast a day and 6 production blasts a week, averaged over a calendar year; and</p> <p>(b) 6 development blasts a day and 42 development blasts a week, averaged over a calendar year.</p>	Compliant	<p>The Auditors sighted the following Excel spreadsheets (derived from Saros Blasthub data):</p> <ul style="list-style-type: none"> Report_byblast_RASP Mine_2019; Report_byblast_RASP Mine_2020; and Report_byblast_RASP Mine_2021. <p>As reported in BHOP's 2019, 2020 and 2021 AEMRs (reporting period from 1 January to 31 December):</p> <ul style="list-style-type: none"> in 2019 – a total of 2,094 blasts were fired during the reporting period, 1,880 for development and 214 for production; in 2020 – a total of 1,634 blasts were fired during the reporting period, 1,467 for development and 167 for production; and in 2021 – a total of 1,510 blasts were fired during the reporting period, 1,402 for development and 108 for production. 	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		A blast vibration report dated 18 October 2014 by service provider, Prism Mining (Appendix B to the MOD 3 EA), defines the difference between development blasts (43mm diameter hole) and production blasts (76 or 89mm holes).	
<p>Schedule 3 – Condition 19B – Noise and Vibration – Operating Conditions</p> <p>The Proponent shall:</p> <p>(a) implement best management practice to:</p> <ul style="list-style-type: none"> protect the safety of people in the surrounding area; and protect public or private infrastructure/property in the surrounding area from any damage; <p>(b) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site;</p> <p>(c) use reasonable endeavours to co-ordinate blasting at the site:</p> <ul style="list-style-type: none"> to minimise cumulative blasting impacts associated with the operation of nearby mines; and to avoid disturbing users of nearby recreational facilities, including the Broken Hill Bowling Club and the Italo (Bocce) Club; <p>to the satisfaction of the Secretary.</p>	<p>Compliant</p>	<p>As of March 2022, vibration management is implemented through BHOP’s Blasting Monitoring Program Management Plan (BMPMP) and Technical Blasting Management Plan (TBMP). Refer to condition 20 of this Schedule regarding the content of the BMPMP.</p> <p>Examples of best management practices implemented by BHOP to comply with paragraph (a) of this condition include requirements described in section 7.2.2 of BHOP’s Technical Blasting Management Plan (revision no. 1, issued on 30 March 2015, Doc ID: BHO-PLN-MIN-002) to meet blasting and overpressure criteria and to minimise blasting impacts on the local community.</p> <p>In relation to paragraph (b) of this condition, the CBH website includes a Rasp Blasting Schedule page, which as of March 2022 was observed to be up-to-date. The Rasp Blasting Schedule page on the CBH website advises that production blasting is scheduled between 6:45 am to 7:15 am and 6:45 pm to 7:15 pm on any day.</p> <p>In relation to paragraph (c) of this condition:</p> <ul style="list-style-type: none"> section 6 of the BMPMP refers to the existence of a ‘general agreement’ between BHOP and Perilya where the Rasp Mine aims to blast in the first 15 minute block (6:45 to 7:00) and Perilya aims to blast in the second 15 minute block (7:00 to 7:15); and during the audit period no complaints of disturbance were made by users of the Broken Hill Bowling Club or the Italo (Bocce) Club. <p>It was stated that as of March 2022, BHOP has the capacity to send text messages to local residents and an officer of the EPA on the day of a scheduled production blast.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		 <p>Photo 12 – Blast vibration monitoring equipment on TSF2 Embankment 2 (Dams Safety NSW required location) (9 March 2022)</p>	
<p>Schedule 3 – Condition 20 – Noise and Vibration – Noise and Blast Management Plan</p> <p>The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p><i>[Auditor’s Note: there is no paragraph (a).]</i></p> <p>(b) be prepared in consultation with EPA, and submitted to the Secretary for approval by the end of June 2011;</p> <p>(c) describe the noise mitigation measures that would be implemented to:</p> <ul style="list-style-type: none"> 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 address activities associated with the construction of the concrete batching plant and TSF2, and the capping and rehabilitation of TSF2; <p>(d) include a noise monitoring program that:</p>	<p>Compliant</p> <p>2 Observations</p>	<p>BHOP has prepared and implemented the following Management Plans in relation to this condition:</p> <ul style="list-style-type: none"> a Blasting Monitoring Program Management Plan (BMPMP) which currently is revision no. 3, issued on 4 November 2016, Doc ID: BHO-PLN-ENV-006; a Technical Blasting Management Plan (TBMP) which currently is revision no. 1, issued on 30 March 2015, Doc ID: BHO-PLN-MIN-002; a Noise Monitoring Management Plan (NMMP) which currently is revision no. 5, issued on 25 June 2019, Doc ID: BHO-PLN-ENV-009. <p>During this March 2022 audit, there was evidence that BHOP is implementing the BMPMP, TBMP and NMMP. Refer to comments for condition 19B of this Schedule for examples of implementation of the BMPMP and TBMP.</p>	<p>Ob 46 – To be actioned.</p> <p>Ob 47 – To be actioned.</p>

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<ul style="list-style-type: none"> uses a combination of real-time and supplementary attended monitoring to evaluate the performance of the project; and includes a protocol for determining exceedances of the relevant conditions of this approval; <p>(e) describe the blast management measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this approval; and</p> <p>(f) include a blast monitoring program that:</p> <ul style="list-style-type: none"> evaluates the performance of the project, including compliance with the applicable criteria; uses a combination of roving blast monitors (at least 1) and fixed blast monitors (at least 6); and includes a protocol for determining and responding to exceedances of the relevant conditions of this approval. 		<p>Implementation of 'best management practices' in section 8.2 of the NMMP observed during this March 2022 audit included: a) noise awareness information in the BHOP Rasp Mine General Induction (V1.05, Section 13.3 – Key Environmental Issues); and b) the use of enclosed conveyors and transfer stations prior to the grinding circuit.</p> <p>In relation to the Concrete Batching Plant, section 8.2 of the NMMP notes that the following practice will be used:</p> <p>“Prior to construction of the CBP incorporate into the Construction Environment Management Plan all identified reasonable and feasible measures to minimise noise during construction.”</p> <p>In relation to the paragraphs of this condition:</p> <p>(a) There is no paragraph (a) in the condition.</p> <p>(b) Section 9 of the BMPMP and Appendix A of the NMMP provide evidence of consultation with the EPA. It is considered that the requirement for submission of the BMPMP and NMMP to the Secretary for approval by the end of June 2011 does not apply to subsequent revisions of the BMPMP and NMMP.</p> <p>(c) Section 6.3 of the NMMP describes 'Action Limits' during attended noise monitoring and section 7.1 of the NMMP describes noise mitigation measures to reduce a noise exceedance to below the action limit (e.g. elimination by using a new design, plant or equipment). Pages 33 and 34 of the NMMP list various mitigation measures including: the use of squawker reverse alarms on vehicles used on site; and enclosure of motors for the loading of cement into the silo (blower) and into the mixing hopper (screw conveyor).</p> <p>(d) Sections 6.1 and 6.2 of the NMMP and section 6.1 of the BMPMP include details of noise monitoring programs (i.e. monitoring locations and frequency).</p> <p>(e) Section 6 of the BMPMP and sections 7.2.2 and 7.3 of the TBMP describe blast management measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this approval, for example:</p> <ul style="list-style-type: none"> instrumentation used and procedures will be in accordance with AS 2817.2-2006 (section 6.1 of the BMPMP); and 	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<ul style="list-style-type: none"> all blasting data is electronically uploaded from the monitors four times daily (section 6.3 of the BMPMP). <p>(f) The BMPMP and TBMP include a blast monitoring program that:</p> <ul style="list-style-type: none"> evaluates the performance of the project, including compliance with the applicable blasting criteria (section 6.2 of the BMPMP); uses a combination of at least one roving monitor and at least six fixed monitors (section 6.1 of the BMPMP); includes a protocol for determining and responding to exceedances of the relevant conditions of this approval (sections 7.1 and 7.3 of the BMPMP and section 10 of the TBMP). <p>Observation No. 46 – The footer of the Noise Monitoring Management Plan (issued on 25 June 2019) changes from ‘revision no. 5’, to ‘revision no. 3’ from page 26 onwards.</p> <p>Observation No. 47 – BHOP should rectify the duplication of Section 6.3 (Noise Monitoring Locations, Action Limits) in the Noise Monitoring Management Plan (NMMP). The Action Limits heading is embedded in Table 3 of the NMMP.</p> <p>It was noted that during this March 2022 audit, the Auditors sighted a proposed updated version of the Technical Blasting Management Plan (BHO-PLN-MIN-002, revision 3, January 2022, 35 pages) which was marked as “under review”.</p>	
<p>Schedule 3 – Condition 20A – Underground Mining – Performance Measures</p> <p>The Proponent shall ensure that there are no measurable subsidence impacts caused by underground mining beneath South Road and other public infrastructure.</p>	Compliant	<p>A Deed of Agreement (in relation to road infrastructure affected by the Rasp Mine Extension) was entered into with the RMS (undated, but likely to be circa June 2015), prior to the commencement of production blasting in Block 7. The RMS is now known as TfNSW.</p> <p>Section 7.1 of the Deed of Agreement requires BHOP to monitor and inspect South Road at a frequency and in a manner in accordance with the ‘Relevant Documents’ (defined as the Ground Control Management Plan, Blasting Management Plan and any other documents required by RMS) and report to RMS on the condition of South Road in accordance with the Relevant Documents.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Section 6.2.1 of the Blast Monitoring Program Management Plan (issued on 4 November 2016) refers to the use of extensometers for underground monitoring of potential ground movement for the 60m crown pillar beneath South Road and hanging wall (stopping) conditions.</p> <p>It was stated that during the audit period, BHOP had not observed any measurable subsidence impacts caused by underground mining beneath South Road or other public infrastructure.</p> <p>Refer to supporting evidence/comments for CML7 condition 19.</p>	
<p>Schedule 3 – Condition 21 – Soil and Water</p> <p>Except as may be expressly provided by an Environment Protection Licence issued under the <i>Protection of the Environment Operations Act 1997</i>, the Proponent shall comply with section 120 of that Act, which prohibits the pollution of waters.</p>	<p>Non-compliant (low risk)</p>	<p>Relevant BHOP personnel were aware that it is an offence under section 120 of the Protection of the Environment Operations Act 1997 to pollute waters, except as expressly provided by the EPL.</p> <p>BHOP’s Site Water Management Plan (SWMP) issued on 25 June 2019, acknowledges that a primary objective of the SWMP is to comply with section 120 of the Protection of the Environment Operations Act 1997.</p> <p>Figure 1 in the SWMP shows 60 site catchment areas and 39 water storage locations, with directions of water flow indicated.</p> <p>It was stated that during rainfall, surface water management at the operation involves the diversion of surface runoff into either the S49 Ryan Street Dam or Horwood Dam.</p> <p>As noted in the 2016 audit report and 2019 audit report, in January 2016, the S49 Ryan Street Dam was recontoured to contain a 1 in 20 year ARI 24 hour storm event; and the dam embankment was lined with HDPE.</p> <p>Given the low rainfall and high evaporation rates in the region surrounding Broken Hill, the presence of standing water is rare.</p> <p>A significant number of shallow basins and depressions are utilised around the site to capture surface runoff from disturbed areas when this occurs.</p>	<p>NC – Noted and incident currently under investigation for sustainable preventative actions.</p>

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>It was stated that the nearest waterway/creek to the operation with environmental value is Stephens Creek (located 18 km to the east of Broken Hill). No surface runoff from the BHOP is known to drain into or reach this receiving water.</p> <p>Refer to supporting evidence/comments for Project Approval Schedule 4, condition 5, in relation to the minor seepage from the S49 Ryan Street Dam, which was observed on 10 March 2022.</p> <p>Non-compliant (low risk) – On 10 March 2022, minor seepage was observed from the S49 Ryan Street Dam adjacent to and across the site boundary.</p>	
<p>Schedule 3 – Condition 22 – Soil and Water – Water Supply</p> <p>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 water supply.</p> <p><i>Note: The Proponent is required to obtain the necessary water licences for the project under the Water Act 1912 and/or Water Management Act 2000.</i></p>	<p>Compliant</p>	<p>It was stated that during the audit period, operations at the Rasp Mine were not modified or suspended due to a lack of available water for processing and related activities.</p> <p>It was stated that 'Siemens' flow meters are expected to be installed on site by mid-2022 (awaiting delivery from Mildura). The flow meters will comprise two extraction meters and two additional meters on four different lines (i.e. two in and two out).</p> <p>It was stated that the site is considering possible water efficiency improvements, depending on flow meter data collected in the future.</p> <p>As of March 2022, BHOP utilises underground water that is dewatered and pumped to the lined S22 Dam on site.</p> <p>At the S22 Dam, the water is clarified for the removal of suspended sediment and is then utilised around the operation for relevant mining, processing and related activities.</p> <p>The spraying of on-site haul roads uses either recycled water (from S22 Dam) or raw water.</p> <p>It was stated that for dust mitigation, TSF2 will be sprayed with mine water from the new silver tank once the necessary pipework has been installed (i.e. the required pipework was on site as of March 2022 but not yet installed).</p> <p>The Rasp Mine utilises raw water within its washdown bays, fire hydrants etc. Raw water used by the operation is currently sourced from the Menindee Lakes.</p>	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Potable water, utilising a second pipeline and chlorination processes, is sourced from the Murray River. Raw water and potable water are on separate meters.</p> <p>There was no evidence during this March 2022 audit that insufficient water exists for all aspects of mining, processing and related activities.</p>  <p>Photos 13 and 14 – Mc Mag3000 Battery Powered Electromagnetic Flow Meter on mine dewatering pipeline (7 March 2022)</p>	
<p>Schedule 3 – Condition 23 – Soil and Water – Water Management Plan</p> <p>The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Secretary. This plan must be consistent with the Stormwater Management Plan presented as Annexure K to the EA, incorporate any changes to reflect the final detailed design of the project, and be prepared in consultation with EPA, DPIE Water and RR. The plan must: be submitted to the Secretary for approval by the end of June 2011, and must include:</p> <p>(a) a Site Water Balance, which must:</p> <ul style="list-style-type: none"> • include details of: <ul style="list-style-type: none"> ○ sources and security of water supply; ○ methods to achieve accurate metering of water take; ○ water use on site; ○ water management on site; ○ any off-site water transfers; and 	<p>Non-compliant (low risk)</p> <p>8 Observations</p>	<p>As of March 2022, BHOP’s current Site Water Management Plan (SWMP) is Revision No. 2, issued on 25 June 2019 (Doc ID: BHO-PLN-ENV-006). The SWMP is available on the CBH website.</p> <p>It was noted that Doc ID: BHO-PLN-ENV-006 is used in BHOP’s Blasting Monitoring Program Management Plan. It appears that Doc ID: BHO-PLN-ENV-004 is not used in another plan and could be allocated to BHOP’s Site Water Management Plan.</p> <p>Observation No. 48 – BHOP should rectify the inconsistent Doc ID in the header of the Site Water Management Plan, which changes from “BHO-PLN-ENV-006” in pages 1 to 18, to “BHO-PLN-ENV-004” in pages 19 to 48. BHO-PLN-ENV-006 is already used for BHOP’s Blasting Monitoring Program Management Plan.</p> <p>It is considered that the requirement for submission of the SWMP to the Secretary for approval by the end of June 2011 does not apply to subsequent revisions of the SWMP (i.e. after the previous Site Water Management Plan dated 30 April 2012 by Golder Associates, report number 097626108-007-R-Rev11).</p>	<p>NC – To be investigated and SWMP updated if possible.</p> <p>Ob 48 – To be actioned.</p> <p>Ob 49 – To be actioned.</p> <p>Ob 50 – To be investigated.</p> <p>Ob 51 – Noted. Surface water study to be undertaken as part of RMP.</p> <p>Ob 52 – To be considered.</p> <p>Ob 53 – To be actioned.</p> <p>Ob 54 – To be actioned.</p>

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<ul style="list-style-type: none"> • investigate and implement all reasonable and feasible measures to minimise water use by the project; (b) an Erosion and Sediment Control Plan, which must: <ul style="list-style-type: none"> • identify activities that could cause soil erosion, generate sediment or affect flooding; • describe measures to minimise soil erosion and the potential for transport of sediment to downstream waters, and manage flood risk; • describe the location, function and capacity of erosion and sediment control structures and flood management structures; and • describe what measures would be implemented to maintain the structures over time; (c) a Surface Water Management Plan, which must include: <ul style="list-style-type: none"> • detailed baseline data on surface water flows and quality in creeks and other waterbodies that could potentially be affected by the project; • surface water and stream health impact assessment criteria including trigger levels for investigating any potentially adverse surface water impacts; • a program to monitor and assess: <ul style="list-style-type: none"> ○ surface water flows and quality; ○ impacts on water users; ○ stream health; and ○ channel stability. (d) a Groundwater Monitoring Program, which must: <ul style="list-style-type: none"> • provide a program to monitor seepage movement within and adjacent to the tailings storage facility; • include details of parameters and pollutants to be monitored for: <ul style="list-style-type: none"> ○ water from mine dewatering; ○ groundwater locations to the east of TSF1; ○ surface water represented by Horwood Dam; ○ water captured by the toe drains of the tailings storage facility; 		<p>Section 1.5 of the SWMP states that the SWMP was prepared in consultation with the Department of Industry – Water, the EPA and the Resources Regulator.</p> <p>During this March 2022 audit, there was evidence that BHOP is implementing the SWMP, including the following measures:</p> <ul style="list-style-type: none"> • use of a Site Water Monitoring Procedure (BHO-ENV-PRO-011), referred to in section 1.6 of the SWMP; • surface water and groundwater monitoring results provided in Monthly Environment Monitoring Reports on the CBH website (from January 2014 to January 2022 at the time of writing this March 2022 audit report); • surface water and groundwater monitoring results provided in AEMRs on the CBH website (AEMRs from 2012 to 2020 at the time of writing this March 2022 audit report); and • construction of the stormwater collection pond referred to in section 5.3 of the SWMP as follows: “A Stormwater Collection Pond will be constructed to the north of Embankment 2 to store rainwater from runoff from the outer slope of Embankment 2.” <p>Observation No. 49 – The new stormwater pond to the north of TSF2 Embankment 2 could be included (with design storage details) in the next revision of the Site Water Management Plan, with possibly an ARI assigned.</p>	Ob 55 – To be actioned.

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<ul style="list-style-type: none"> ○ water seepage from the tailings storage facility; and ○ the background local groundwater system. ● outline performance parameters against monitoring data will be compared to determine whether seepage is occurring, and whether an unacceptable impact on local groundwater may be occurring; ● include details of contingency measures to be implemented in the event that an unacceptable impact is identified. 		 <p>Photo 15 – Stormwater Collection Pond to the north of TSF2 Embankment 2 (9 March 2022)</p> <p>In relation to the paragraphs of this condition:</p> <p>(a) The SWMP includes a ‘Water Balance’ in section 6 and Figure 4. The Site Water Balance:</p> <ul style="list-style-type: none"> ● includes details of: <ul style="list-style-type: none"> ○ sources and security of water supply (sections 5 and 6, and Figure 4); ○ methods to achieve accurate monitoring of water take – according to Project Approval Schedule 4, condition 4(d), this new requirement is not triggered until the next revision of the SWMP which is due within 3 months after approval of Mod 9 on 23 December 2021 (i.e. this new requirement is not triggered until 22 March 2022); ○ water use on site (sections 5 and 6, and Figure 4); ○ water management on site (sections 1.4, 5, 6 and 10); ○ any off-site water transfers (sections 5.4 and 6); and ● investigates and implements all reasonable and feasible measures to minimise water use by the project (section 6). 	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>(b) The SWMP includes section 9, headed “Erosion and Sediment Control” (which for the purpose of assessing compliance against this condition is considered to be an Erosion and Sediment Control Plan), and which:</p> <ul style="list-style-type: none"> • identifies activities that could cause soil erosion, generate sediment or affect flooding (section 9 introduction); • describes measures to minimise soil erosion and the potential for transport of sediment to downstream waters, and manage flood risk (sections 1.4, 9.1, 9.2 and 9.3); • describes the location, function and capacity of erosion and sediment control structures and flood management structures (Figure 1, and Tables 5 and 6); and • describes what measures would be implemented to maintain the structures over time (sections 9.1, 9.2 and 9.3). <p>(c) The SWMP includes section 8, headed “Surface Water Monitoring” (which for the purpose of assessing compliance against this condition is considered to be a Surface Water Management Plan), and which includes:</p> <ul style="list-style-type: none"> • detailed baseline data on surface water flows and quality in creeks and other waterbodies that could potentially be affected by the project – refer to non-compliance below; • surface water and stream health impact assessment criteria including trigger levels for investigating any potentially adverse surface water impacts – refer to non-compliance below; • a program to monitor and assess: <ul style="list-style-type: none"> ○ surface water flows and quality (sections 8.1, 8.2 and 8.3); ○ impacts on water users – refer to non-compliance below; ○ stream health – (section 8.2); and ○ channel stability (section 9 – Erosion and Sediment Control). <p>(d) The SWMP includes a Groundwater Monitoring Program which:</p> <ul style="list-style-type: none"> • provides a program to monitor seepage movement within and adjacent to the tailings storage facility (section 7.1); 	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<ul style="list-style-type: none"> • includes details of parameters and pollutants to be monitored for: <ul style="list-style-type: none"> ○ water from mine dewatering (section 7.1); ○ groundwater locations to the east of TSF1 (section 7.1); ○ surface water represented by Horwood Dam (section 7.1); ○ water captured by the toe drains of the tailings storage facility (section 7.1); ○ water seepage from the tailings storage facility (section 7.1); and ○ the background local groundwater system (sections 7.2 and 7.3.1). • outlines performance parameters against monitoring data which will be compared to determine whether seepage is occurring, and whether an unacceptable impact on local groundwater may be occurring (section 7.2); • includes details of contingency measures to be implemented in the event that an unacceptable impact is identified (sections 7.3 and 10). <p>Non-compliant (low risk) – In relation to paragraph (c) of this condition:</p> <ul style="list-style-type: none"> • The June 2019 Site Water Management Plan (SWMP) does not include the required baseline data on surface water flows and quality in creeks and other waterbodies that could potentially be affected by the project. Section 3.3 presents local temperature and rainfall data, but does not relate this data to the potential quantity or quality of surface water flows at the two off-site monitoring locations (i.e. upstream of Acacia Creek, and within Stephens Creek) referred to in section 8.2 (EPL monitoring points 35 and 36). It is noted that section 12.5 of the previous SWMP (Golder Associates, dated 30 April 2012, report number 097626108-007-R-Rev11) states that “catchment water quality is expected to contain concentrations of lead and other heavy metals above the conventional water quality guideline limits...”. 	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<ul style="list-style-type: none"> The SWMP does not include surface water and stream health impact assessment criteria including trigger levels for investigating any potentially adverse surface water impacts. Section 8.4 describes contingency measures (pumping to lower the water level in Horwood Dam) if the measured water quality in Horwood Dam is considered to be a risk to the receiving environment (such as the downstream creek and Stephens Creek Reservoir), and section 10 includes a surface water quality TARP, with trigger levels referable to groundwater water quality results in August 2011 at Shaft 7. However, sections 8.4 and 10 do not define impact assessment criteria at the two off-site monitoring locations referred to in section 8.2; and The SWMP does not identify whether there are potential impacts of surface water flows from the site, on off-site water users, and if potential impacts are identified, include a program to monitor and assess those potential impacts. It is noted that Section 12.1 of the previous Site Water Management Plan (dated 30 April 2012, Golder Associates, report number 097626108-007-R-Rev11) stated: “It is predicted that overflows during extreme rainfall events greater than the 1 in 100 year storm event, will not directly affect the hydrology of the local catchment.” <p>Observation No. 50 – Sections 10.5.1 to 10.5.15 of the previous Site Water Management Plan (Golder Associates, 30 April 2012, report no. 097626108-007-R-Rev11) state that BHOP will carry out a series of works and actions (e.g. section 10.5.5 states that BHOP will: “Install a culvert in catchment 16 to direct runoff to S17”). BHOP should confirm: a) the status of the works and actions referred to in the Golder Associates SWMP; and b) that these works and actions have been entered and closed out in INX InControl.</p> <p>Observation No. 51 – Reasons for the absence of on-site surface water quality background data (i.e. the longstanding, disturbed nature of the site) could be provided in section 8.3 of the Site Water Management Plan. The relevant sentence in section 8.3 of the SWMP currently reads: “No initial background water quality values were identified for surface water at the site.”</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Observation No. 52 – BHOP could improve the readability of Figure 4 in the Site Water Management Plan by identifying the solid lines (Direct Flow) and dashed lines (Overflow) with different colours.</p> <p>Observation No. 53 – Section 5.3 of the Site Water Management Plan (SWMP) describes the location of the Backfill Plant as: “The Backfill Plant is located to the south west of the site in C27.” BHOP could amend this description to refer to the north west of the site in C27, and indicate the location of the Backfill Plant in Figure 1 of the SWMP.</p> <p>Observation No. 54 – BHOP should rectify the incorrect reference to “air quality monitoring” in section 11.2 of the Site Water Management Plan.</p> <p>In a field inspection on 10 March 2022, minor seepage was observed from the base of the embankment at S49 Ryan Street Dam. Refer to supporting evidence/comments for Project Approval Schedule 4, condition 5.</p> <p>Bureau of Meteorology (BoM) records for the Broken Hill Airport AWS indicated that there was no rainfall recorded after 29.6 mm on 1 March 2022, to 10 March 2022 (i.e. 9 days with no rain). It was noted that BoM rainfall records for Broken Hill Airport AWS indicated 61.8 mm on 1 February 2022, and 72.4 mm on 16 March 2022.</p> <p>Observation No. 55 – Given that minor seepage was observed at the S49 Ryan Street Dam on 10 March 2022 after 9 days with no rain, BHOP could investigate whether additional seepage controls (or methods, as referred to in section 9.1 of the Site Water Management Plan) are required at the S49 Ryan Street Dam.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		 <p>Photo 16 – S49 Ryan Street Dam (10 March 2022)</p>  <p>Photo 17 – Seepage observed at S49 Ryan Street Dam (10 March 2022)</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 3 – Condition 24 – Transport</p> <p>The Proponent shall maintain the existing 66 carparking spaces, or an equivalent number elsewhere on the site, for the duration of the project.</p>	Compliant	During this March 2022 audit there was evidence that BHOP maintains a suitable carpark for employees and contractors, inclusive of an overflow carpark. The number of car spaces provided by BHOP across these two carparks is at least 92 car spaces.	
<p>Schedule 3 – Condition 25 – Transport</p> <p>The Proponent shall consult with the TfNSW and Council in relation to the footpath modifications required at the Eyre Street site access and shall address the design requirements of those agencies in relation to those works. All footpath works shall be completed prior to the commencement of operation of the project, and shall be undertaken at no cost to the TfNSW or Council.</p>	Compliant	<p>As noted in the 2019 audit report, BHOP received a letter dated 3 September 2012 from Broken Hill City Council regarding the completion of works for 130 Eyre Street.</p> <p>This letter confirmed that these works were completed and complied with all relevant standards and Council requirements.</p>	
<p>Schedule 3 – Condition 26 – Transport</p> <p>A truck waiting area with capacity to accommodate at least two B-Double vehicles at any time shall be provided inside the Eyre Street site access to avoid trucks queuing into Eyre Street.</p>	Compliant	BHOP has provided and maintains a suitable truck waiting area with capacity to accommodate at least two B-Double vehicles at any time inside the Eyre Street site access.	
<p>Schedule 3 – Condition 27 – Transport</p> <p>If the Holten Road site access is required during construction of the project, the Proponent shall, prior to using this access, consult with and address the requirements of the TfNSW and Council with respect to traffic access at this location.</p>	Compliant	<p>It was stated that the Holten Road gate is padlocked and that the key for the padlock is kept in the BHOP Emergency Services Office.</p> <p>It was stated that all vehicle access for the TSF2 embankment construction works carried out during the audit period, was via the front site entrance at 130 Eyre Street.</p>	
<p>Schedule 3 – Condition 28 – Transport</p> <p>The Proponent shall commission dilapidation reports for roads likely to be affected by the construction of the project, prior to the commencement of construction and immediately prior to completion of construction. The Proponent shall fund rectification of any deterioration of road pavement quality as a result of construction-related traffic.</p>	Compliant	It was stated that since 2015, BHOP has not commissioned any additional dilapidation reports for roads likely to be affected by any scheduled construction project (i.e. prior to the commencement of construction and immediately after completion of any construction).	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 3 – Condition 28A – Transport</p> <p>The Proponent must enter into a Deed of Agreement with the TfNSW for the protection and management of South Road, to the satisfaction of the TfNSW, prior to the commencement of production blasting in Block 7.</p>	Compliant	<p>As noted in the 2019 audit report, a Deed of Agreement (in relation to road infrastructure affected by the Rasp Mine Extension) was entered into with the RMS (undated, but likely to be circa June 2015), prior to the commencement of production blasting in Block 7.</p> <p>It was stated that during the audit period, BHOP had not received any external complaints regarding the condition of South Road or been contacted by TfNSW regarding the condition of South Road.</p>	
<p>Schedule 3 – Condition 29 – Transport – Traffic Management Plan</p> <p>The Proponent shall prepare and implement a traffic management plan to the satisfaction of the Secretary. The plan shall focus on traffic management during construction of the project, and must be developed in consultation with the TfNSW and Council. The plan must be submitted for the approval of the Secretary prior to the commencement of construction.</p>	Compliant Observation	<p>As of March 2022, BHOP's current Traffic Management Plan (TMP) is dated 20 July 2011 and was prepared by service provider, GR Engineering Services.</p> <p>The November 2012 audit report (Graham A. Brown & Associates) includes the following commentary regarding BHOP's compliance with this condition:</p> <p>“A Traffic Management Plan for the site covering both the construction and operational phases was prepared by GR Engineering Services. The current version was issued on 20/7/2011. The BHOP IA states that “the Construction Traffic Management Plan was submitted to DoPI in July 2011 following meetings with BHCC and RTA. No written response was received by either BHCC or RTA.” [Note: “IA” is defined as Internal Audit.]</p> <p>It was stated that the TMP will need to be reviewed and updated if a future Project Approval modification is issued (e.g. Mod 6) which incorporates any additional major construction works at the site.</p> <p>Observation No. 56 – The Traffic Management Plan (TMP) dated 20 July 2011 is currently labelled as a GR Engineering Services document. When reviewing and updating the TMP (possibly to coincide with Mod 6 works), BHOP could consider issuing the revised TMP as a BHOP document.</p>	Ob 56 – To be actioned.
<p>Schedule 3 – Condition 30 – Heritage</p> <p>The Proponent shall prepare and implement a Conservation Management Plan for the site to the satisfaction of the Secretary. This plan must provide a strategic framework for all heritage items located on the Lease, based on the</p>	Compliant Observation	<p>The November 2012 audit report (Graham A. Brown & Associates) includes the following commentary regarding BHOP's compliance with this condition:</p>	Ob 57 – To be actioned as part of RMP development.

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
principles of the Burra Charter, and developed in consultation with the Heritage NSW and Council. The plan must be submitted for the approval of the Secretary by December 2011.		<p>“The draft Conservation Management Plan was prepared by Austral Archaeology Pty Ltd in November 2011. It is still in progress and currently in discussions with DoPI. An extension to the end of December 2012 was sought and agreed.”</p> <p>BHOP’s current ‘draft’ Conservation Management Plan (CMP) was developed by external consultant, GML Heritage, and issued to BHOP in September 2015. As of March 2022, the CMP remains issued as a ‘draft’ version. It is considered that the requirement to submit the plan for the approval of the Secretary by December 2011 does not apply to this draft CMP.</p> <p>It is considered that the draft CMP provides a strategic framework for all heritage items located on the lease.</p> <p>In field inspections during this March 2022 audit, the observed heritage items on site appeared to be unharmed by mining operations and related activities.</p> <p>BHOP also maintains a register of all heritage items on the site.</p> <p>Observation No. 57 – BHOP is encouraged to request GML Heritage to review, update and finalise the draft September 2015 Conservation Management Plan. Once received, this final version is required to be submitted for approval of the Secretary.</p>	
<p>Schedule 3 – Condition 30A – Heritage</p> <p>If any unexpected heritage items are identified over the life of the project, the Proponent must cease works and contact the Heritage NSW in writing prior to works continuing in the affected areas.</p>	Compliant	<p>BHOP’s Rasp Mine General Induction (V1.05, Section 13.3 – Key Environmental Issues) includes a slide on “Management of Heritage Items”, which refers to “Always using the Permit to Dig process” and “Reporting all potential heritage finds”.</p> <p>It was stated that during the audit period, there have been no unexpected heritage items identified at the Rasp Mine site. As a result, BHOP has not been required to contact Heritage NSW in this regard.</p> <p>As of March 2022, the most recent archeology survey and report at the site was completed in 2012 by Austral Archaeology (i.e. presented as heritage inventory forms within the draft September 2015 Conservation Management Plan developed by external consultant, GML Heritage).</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 3 – Condition 31 – Visual Amenity</p> <p>The Proponent shall:</p> <ul style="list-style-type: none"> (a) minimise the visual impacts, and particularly the off-site lighting impacts, of the project; (b) take all practicable measures to further mitigate off-site lighting impacts from the project; and (c) ensure that all external lighting associated with the project complies with <i>Australian Standard AS4282 (INT) 1995 - Control of Obtrusive Effects of Outdoor Lighting</i>, or its latest version, to the satisfaction of the Secretary. 	<p>Compliant</p>	<p>It was stated that the visual impacts of the project (e.g. the TSF2 embankment lifts) have been authorised under the Project Approval and Modifications of the Project Approval.</p> <p>It was stated that since the commencement of mining and processing operations in 2012, there have been no lighting-related complaints received by BHOP from any external stakeholders.</p> <p>The BHOP “Contact Us” form/page is available on the CBH website for any concerns that may be raised by members of the public, inclusive of any concerns relating to lighting used on site at night.</p>	
<p>Schedule 3 – Condition 32 – Waste</p> <p>The Proponent shall:</p> <ul style="list-style-type: none"> (a) minimise the waste generated by the project; and (b) ensure that the waste generated by the project is appropriately stored, handled, and disposed of, to the satisfaction of the Secretary. 	<p>Non-compliant (low risk)</p> <p>7 Observations</p>	<p>It was stated that some waste rock was used as capping (approximately 1 metre depth) in the TSF2 embankment lifts, and is intended to be used as capping on TSF2 after the end of use of TSF2 for tailings.</p> <p>It was stated that concrete waste is deposited underground.</p> <p>Waste oils, waste grease, hydrocarbon contaminated rags, and waste oil filters, is removed by a contractor, Cleanaway.</p> <p>Waste batteries are temporarily stored on-site in the workshop area and are removed off site for recycling by a contractor, Broken Hill Skip Bins.</p>	<p>NC – To be actioned.</p> <p>Ob 58 – To be considered.</p> <p>Ob 59 – To be actioned.</p> <p>Ob 60 – To be actioned.</p> <p>Ob 61 – To be considered.</p> <p>Ob 62 – To be considered.</p> <p>Ob 63 – To be investigated.</p> <p>Ob 64 – To be considered.</p>

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		 <p>Photo 18 – Waste batteries temporarily stored in IBC outside workshop (9 March 2022)</p> <p>It was stated that used heavy vehicle tyres are used for demarcation of haul and access roads around the site, or removed off-site. During the audit period, approximately 10 heavy vehicle tyres were removed from site by a contractor, Flatearth. Used light vehicle tyres are also removed off site to commercial providers (Flatearth) that manage this waste stream.</p> <p>It was stated that a glass/plastic bottle and aluminum/steel can recycler has recently reopened in Broken Hill, which BHOP may utilise in the future.</p> <p>Observation No. 58 – BHOP could consider allowing a local community organisation to place container recycling bins (for containers that attract a 10 cent refund) in the site administration area and workshop, to enable that organisation to remove those items and receive proceeds from a local Reverse Vending Machine.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		 <p>Photo 19 – Used aluminium cans and plastic bottles, in workshop (9 March 2022)</p> <p>Some waste cardboard and paper is segregated and transported to the Broken Hill City Council (BHCC) facilities for collection.</p> <p>Septic waste from the site is collected by a third-party contractor (i.e. Silver Sweep) and transported to the BHCC Sewerage Treatment Plant (STP).</p> <p>Licensed waste contractors that remove hazardous waste off-site utilise the NSW EPA on-line waste tracking process and define the relevant electronic EPA tracking numbers on the submitted service reports/invoices. It was stated that these records are received by BHOP stores and forwarded to BHOP accounts in hard copy.</p> <p>Non-compliant (low risk) – As of March 2022, although most waste products are segregated at source, BHOP has not developed a formal program to proactively review, identify and implement additional programs to minimise waste going to landfill and to measure the volume/quantity of waste being recycled.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Observation No. 59 – On an annual frequency, BHOP could verify and retain records of the validity of the licences of all its hazardous waste contractors.</p> <p>Observation No. 60 – BHOP should ensure its hazardous waste contractors provide EPA tracking numbers on all submitted invoices.</p> <p>Observation No. 61 – BHOP could request its hazardous waste contractors to provide annual reports to BHOP, defining all hazardous waste removed from site and the relevant waste tracking numbers.</p> <p>In field inspections during this March 2022 audit, the Auditors observed an outdoor area near the workshop, used for temporary storage of waste (in drums and IBCs) awaiting transport off site.</p>  <p>Photo 20 – Waste storage outdoor area near workshop, with drums which potentially contain hydrocarbon waste placed on pallets (9 March 2022)</p> <p>Observation No. 62 – BHOP could potentially improve the temporary storage of waste awaiting transport off-site by: a) designating an undercover area (weather protected) for the waste; and b) placing drums which potentially contain hydrocarbon waste, in a bunded area, instead of on wooden pallets.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Observation No. 63 – During this March 2022 audit, it was observed that BHOP workshop personnel could improve waste segregation practices. For example, there was evidence of hydrocarbon contaminated waste being incorrectly discarded in general waste skip bins.</p>  <p>Photos 21 and 22 – IBC and hydrocarbon waste discarded in general waste skip bin outside workshop (9 March 2022)</p> <p>Observation No. 64 – During this March 2022 audit, it was observed that a significant number of used intermediate bulk containers (IBCs) utilised for the storage of hydrocarbon contaminated waste were only partially full. BHOP could fill each IBC prior to collection, to prevent contractor fees being incurred for removal of partially filled IBCs.</p>	
<p>Schedule 3 – Condition 33 – Waste</p> <p>The Proponent shall prepare and implement a Waste Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with RR, and submitted the Secretary for approval by the end of March 2011; <i>[Auditor’s Note – The word “to” is missing from paragraph (a).]</i></p> <p>(b) identify the various waste streams of the project;</p> <p>(c) estimate the volumes of tailings and other waste material that would be generated by the project;</p> <p>(d) describe and justify the proposed strategy for disposing of this waste material;</p>	<p>Non-compliant (low risk)</p> <p>6 Observations</p>	<p>As of March 2022, BHOP’s current Waste Management Plan (WMP) is Revision No. 2, issued on 25 June 2019. Refer to observation below.</p> <p>Observation No. 65 – BHOP should assign a Doc ID (i.e. BHO-PLN-ENV-XXX) to the Waste Management Plan (25 June 2019).</p> <p>In field inspections during this March 2022 audit, there was evidence that BHOP is implementing the WMP, including the following measures:</p> <ul style="list-style-type: none"> tailings were being deposited into TSF2; bunded areas were in use for the storage of hydrocarbon waste (refer to photo below); and waste was generally well segregated in all observed areas of the site apart from the workshop area. 	<p>NC – To be actioned.</p> <p>Ob 65 – To be actioned.</p> <p>Ob 66 – To be investigated.</p> <p>Ob 67 – To be actioned.</p> <p>Ob 68 – To be considered.</p> <p>Ob 69 – To be considered.</p> <p>Ob 70 – To be considered.</p>

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>(e) describe what measures would be implemented to meet the requirements set out above in condition 32; and</p> <p>(f) include a program to monitor the effectiveness of these measures.</p>		 <p>Photo 23 – Hydrocarbon waste bund outside workshop (9 March 2022)</p> <p>In relation to the paragraphs of this condition:</p> <p>(a) It is considered that the requirement for submission of the WMP to the Secretary for approval by the end of March 2011 does not apply to subsequent revisions of the WMP.</p> <p>(b) The WMP identifies the various waste streams of the project (section 3.2 with sub-sections describing streams of mineral waste, and sections 3.3 and 3.4 describing streams of non-mineral waste).</p> <p>(c) The WMP estimates the volumes of tailings and other waste material that would be generated by the project as follows:</p> <ul style="list-style-type: none"> in section 3.2.3 of the WMP, Table 3-1 predicts annual volumes of tailings for the first 9 years of mine life (i.e. to 30 June 2020), and Table 3-2 records actual tailings deposited in TSF2, and actual waste rock placed underground and in Kintore Pit – refer to observation below; section 3.2.2 estimates waste rock volumes; and section 3.2.9 estimates the volume of concrete waste as approximately 1 m³ per day. 	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>(d) The WMP does not describe and justify a proposed strategy for disposing of mineral waste material. It is acknowledged that section 3.1 of the WMP notes that guidance from the Line of Lode Working Group chaired by the Department of Premier and Cabinet, regarding BHOP’s formulation of a long-term strategy for mineral waste has not yet been finalised. Refer to non-compliance below.</p> <p>(e) The WMP describes the measures that would be implemented to meet the requirements set out in condition 32 (sections 3.2.2 to 3.2.9 inclusive regarding mineral waste, and sections 3.3.1, 3.4 and 3.5 regarding non-mineral waste). Refer to non-compliance below.</p> <p>(f) The WMP includes a program to monitor the effectiveness of these measures as follows:</p> <ul style="list-style-type: none"> • section 3.6 provides for monitoring activities – refer to non-compliance below; and • section 3.7 provides for on-site inspections, and audits of off-site waste facilities every 4 years (i.e. the next audit is due by 25 June 2023) – refer to non-compliance below; and • section 3.8 provides for training in waste management requirements. <p>Non-compliant (low risk) – In relation to paragraphs (d) and (e) of this condition, as of March 2022:</p> <p>(d) The Waste Management Plan does not describe and justify the proposed strategy for disposing of mineral waste material.</p> <p>(e) As of March 2022, there was insufficient evidence that BHOP has implemented ‘all’ of the measures described in section 3.6 (Monitoring) and section 3.7 (Audits) of the Waste Management Plan. For example:</p> <ul style="list-style-type: none"> • there was no evidence of development of a comprehensive waste inventory (fifth dot point in section 3.6); and • there was no evidence of waste management inspections (section 3.7) being documented and retained on file. 	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Observation No. 66 – Section 3.1 of the Waste Management Plan states that the approved Mining Operations Plan is “available on the BHOP website”. If this statement is to be retained, BHOP should include the approved Mining Operations Plan on the CBH website.</p> <p>Observation No. 67 – Section 3.2.3 of the Waste Management Plan could be revised to:</p> <ul style="list-style-type: none"> include predicted “surface tailings volume” and “cumulative tailings volume”, for the remaining life of mine (i.e. which as of March 2022, is until 31 December 2026); and update Table 3-2 with post-2016 data regarding “actual tailings in TSF2”, and “actual total waste rock” and its on-site destination (i.e. in-pit and/or underground). <p>Observation No. 68 – Section 3.7 (Audits) of the Waste Management Plan could be amended to include a program of on-site waste management audits (conducted either internally or via an external provider) to identify potential improvements in waste management across the site.</p> <p>Observation No. 69 – BHOP could confirm that it is receiving accurate waste records from the relevant service provider (i.e. recorded weights/receipts from the BHCC landfill weighbridge) for waste that is removed from site and charged by weight.</p> <p>Section 3.2.9 of the WMP states:</p> <p>“A record of concrete waste storage and removal will be kept in a register maintained by the CBP manager and monitored by the Environmental and Community Officer.”</p> <p>During this March 2022 audit, BHOP was unable to provide evidence that this register exists. It was noted that the non-existence of a register does not necessarily mean there is no recording of concrete waste storage and removal.</p> <p>The existence of concrete storage and removal records was not verified during this March 2022 audit.</p> <p>Observation No. 70 – BHOP could revise section 3.2.9 of the Waste Management Plan to remove the reference to keeping a register of concrete waste storage and removal, if not legally required.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 3 – Condition 33A – Waste</p> <p>The Proponent must update the Waste Management Plan required by condition 33 of this approval by December 2017, unless the Secretary agrees otherwise. The updated plan must include:</p> <p>(a) a long-term waste management strategy; and</p> <p>(b) an action plan for the implementation of the key measures proposed to achieve the strategy.</p> <p>Following approval, the Proponent must implement the plan.</p>	<p>Non-compliant (low risk)</p> <p>2 Observations</p>	<p>BHOP’s Waste Management Plan (WMP), issued on 25 June 2019, was approved by the nominee of the Secretary on 8 August 2019 (DPE letter of 8 August 2019 sighted).</p> <p><u>Mineral waste (waste rock, tailings and concrete waste)</u></p> <p>In relation to mineral waste, the WMP appears to equate the required long-term strategy in paragraph (a) of this condition as a Rehabilitation Strategy. Section 1.3 of the WMP states:</p> <p>“As guidance from the Line of Lode Working Group chaired by the Department of Premier and Cabinet has not yet been provided, the Rehabilitation Strategy is yet to be finalised. ... Upon finalisation of the Rehabilitation Strategy an Action Plan to achieve the Strategy will be developed and implemented.”</p> <p>Observation No. 71 – BHOP could consider whether the Waste Management Plan should clearly define that for mineral waste, the long-term waste management strategy is the Rehabilitation Strategy required under Project Approval Schedule 3, condition 34A.</p> <p>Non-compliant (low risk) – In relation to the management of mineral waste, the Waste Management Plan does not include:</p> <p>(a) a long-term waste management strategy; or</p> <p>(b) an action plan for the implementation of the key measures proposed to achieve the strategy.</p> <p><u>Non-mineral waste</u></p> <p>The WMP includes strategies and actions in relation to non-mineral waste. For example, section 1.4 (Performance targets) states:</p> <p>“BHOP aims to store and dispose of waste in accordance with relevant Australian Standards, legal conditions, and relevant legal obligations, recycle and reuse waste products wherever economical feasible and practicable; and achieve 60% total recycling of non-mineral waste.”</p> <p>Observation No. 72 – Section 1.4 of the Waste Management Plan refers to achieving 60% total recycling of non-mineral waste. BHOP could schedule periodic internal audits against this 60% target, and if the target is not feasible, reassess the target.</p>	<p>NC – To be actioned. Approval of MOD6 provides long term mineral waste storage in Kintore Pit.</p> <p>Ob 71 – To be investigated.</p> <p>Ob 72 – To be considered.</p>

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 3 – Condition 34 – Rehabilitation – Progressive Rehabilitation</p> <p>The Proponent must rehabilitate the site progressively, that is, as soon as is practicable following disturbance, to the satisfaction of the Secretary.</p>	<p>Compliant</p>	<p>As of March 2022, no formal progressive rehabilitation program had commenced at the BHOP Rasp Mine.</p> <p>The entire lease is essentially in a disturbed state. Limited opportunities currently exist at the site to conduct any progressive or final rehabilitation. BHOP’s focus to date has been on soil stabilisation and the use of commercially available dust suppressants on disturbed areas to minimise fugitive dust emissions from the site.</p> <p>As of March 2022, there has been no agreed methodology approved by regulatory bodies defining how the site will be either be progressively rehabilitated or the methods to be adopted for final rehabilitation.</p> <p>No community consultation meetings are known to have occurred to date (as of March 2022) to receive feedback on the preferred land use for the site, post rehabilitation.</p> <p>It was stated that an intergovernmental committee (the Line of Lodge Working Group, chaired by the Department of Premier and Cabinet) has been formed to discuss future options for the rehabilitation of the entire Line of Lode. Although requested by BHOP, terms of reference or information (e.g. minutes of meetings) regarding the Working Group have not been provided, for the apparent reason that the Working Group is not a public committee.</p> <p>A meeting of the intergovernmental committee took place in August 2019, during which the Rasp Mine was visited by committee members. As of March 2022, no follow-up minutes or reports have been issued, and no further meetings have been held or scheduled.</p> <p>Refer to supporting evidence/comments for CML7 condition 2, regarding the Mine Earth report titled: “Rasp Mine – Dust Management Options Assessment” and dated July 2021, for BHOP’s Mod 6 application.</p> <p>It was stated that as of March 2022, there are no trial rehabilitation areas at the Rasp Mine.</p>	

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 3 – Condition 34A – Rehabilitation – Rehabilitation Strategy</p> <p>The Proponent must prepare a Rehabilitation Strategy for the site to the satisfaction of the Secretary. This strategy must:</p> <p>(a) be prepared in consultation with RR, EPA, DPIE Water, Heritage NSW and Council;</p> <p>(b) define the rehabilitation objectives for the mine site, with consideration of heritage values, dust management, water and leachate management, subsidence, visual impacts and public safety;</p> <p>(c) include a final landform plan which builds on the rehabilitation objectives and reflects the aims of rehabilitation and closure required by condition 35(d) of this approval; and</p> <p>(d) be submitted to the Secretary for approval by the end of June 2018, unless the Secretary agrees otherwise.</p>	<p>Non-compliant (low risk)</p>	<p>As of March 2022, no Rehabilitation Strategy for the Rasp Mine had been developed, as the preferred method of rehabilitation has not been determined to date by the Line of Lode Working Group.</p> <p>It was stated that the Rehabilitation Strategy submission date of June 2018 was not met, partially as a result of delays experienced with the Line of Lode Working Group.</p> <p>A draft Mine Closure Plan (318 pages) for the period 1st November 2015 to 31st October 2018 was developed for the Rasp Mine in September 2015. This Plan was not finalised or issued as a final version. External consultant, Corrine Unger, progressed some closure options and draft strategies for the Rasp Mine which were included in the September 2015 draft Mine Closure Plan.</p> <p>Refer to supporting evidence/comments for CML7 condition 2, regarding the Mine Earth report titled: “Rasp Mine – Dust Management Options Assessment” and dated July 2021, for BHOP’s Mod 6 application.</p> <p>Non-compliant (low risk) – As of March 2022, BHOP had not submitted a Rehabilitation Strategy to the DPE for approval (the deadline for submission was 30 June 2018).</p>	<p>NC – To be actioned. Work currently being undertaken on RMP and Rehabilitation Strategy and the path forward has been discussed with the Resources Regulator.</p>
<p>Schedule 3 – Condition 35 – Rehabilitation – Rehabilitation Management Plan</p> <p>The Proponent shall prepare and implement a Rehabilitation Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared in consultation with RR, EPA, DPIE Water, Heritage NSW and Council;</p> <p>(b) be prepared in accordance with relevant RR guidelines;</p> <p>(c) be consistent with the rehabilitation objectives defined under the Rehabilitation Strategy required by condition 34A of this approval;</p> <p>(d) reflect the aims of rehabilitation and closure to:</p> <ul style="list-style-type: none"> retain and/or manage heritage items, as agreed by relevant regulatory authorities; manage stormwater to minimise erosion and restrict the potential for off-site pollution; 	<p>Non-compliant (low risk)</p>	<p>Limited information relating to mine site rehabilitation is included in section 5 of the Mining Operations Plan (1 October 2021 to 30 September 2023). This information is unable to be defined as a suitable Rehabilitation Management Strategy/Plan.</p> <p>Some additional information relating to mine rehabilitation is included in sections 2, 4, 5, 7, 8 and 9 of the September 2015 draft Mine Closure Plan (Unger). Refer to supporting evidence/comments for Project Approval Schedule 3, condition 34A.</p> <p>Refer to supporting evidence/comments for CML7 condition 2, regarding the Mine Earth report titled: “Rasp Mine – Dust Management Options Assessment” and dated July 2021, for BHOP’s Mod 6 application.</p>	<p>NC –To be actioned. Work currently being undertaken on RMP and Rehabilitation Strategy and the path forward has been discussed with the Resources Regulator.</p>

Project Approval 07_0018 (Mod 9) Schedule 3 – Environmental Performance Conditions			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<ul style="list-style-type: none"> • provide final landforms that are safe, stable and sympathetic to the mining heritage of Broken Hill; • minimise the generation of dust and adequately contain potentially hazardous materials within the landform; and • install barriers to restrict access to potentially hazardous locations (eg decline, shafts or open cut pits); <p>(e) build, to the maximum extent practicable, on the other management plans required under this approval; and</p> <p>(f) be submitted to the Secretary for approval within 6 months of approval of the Rehabilitation Strategy required by condition 34A of this approval.</p> <p><i>Note: The Mine Operations Plan (MOP) may be used to address the requirements of the Rehabilitation Management Plan required under this condition. However, the MOP must clearly document how the requirements of this condition have been met.</i></p>		<p>Non-compliant (low risk) – As of March 2022, BHOP has not developed a Rehabilitation Management Plan as required by this condition.</p>	

Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 4 – Condition 1 – Environmental Management – Environmental Management Strategy</p> <p>The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:</p> <p>(a) be submitted to the Secretary for approval by the end of June 2011;</p> <p>(b) provide the strategic framework for the environmental management of the project;</p> <p>(c) identify the statutory approvals that apply to the project;</p> <p>(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;</p> <p>(e) describe the procedures that would be implemented to:</p> <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the operation and environmental performance of the project; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the course of the project; • respond to any non-compliance; and • respond to emergencies; and <p>(f) include:</p> <ul style="list-style-type: none"> • copies of any strategies, plans and programs approved under the conditions of this approval; and • a clear plan depicting all the monitoring required to be carried out under the conditions of this approval. 	<p>Compliant</p> <p>2 Observations</p>	<p>As of March 2022, BHOP's current Environment Management Strategy (EMS) is version 2, issued on 25 June 2019 (Doc ID: BHO-ENV-SYS-001). The EMS is available on the CBH website.</p> <p>In relation to the paragraphs of this condition:</p> <p>(a) It is considered that this paragraph only applies to the original version of the EMS.</p> <p>(b) Section 1.1 of the EMS describes the purpose of the EMS as providing the strategic framework for environmental management at the Rasp Mine. It is considered the EMS as a whole provides a basic strategic framework for the environmental management of the project.</p> <p>(c) Section 4.1 of the EMS identifies statutory approvals that apply to the project.</p> <p>(d) Section 6.1 of the EMS describes the environmental management responsibility, authority and accountability for the roles of General Manager, Department Managers, HSET Manager, Senior Environmental Advisor, Environmental Technical Officer, Supervisors, and BHOP Personnel and Contractors. Section 9 of the EMS states that compliance with all approvals, plans and procedures is the responsibility of all personnel and contractors, with the General Manager holding overall accountability.</p> <p>(e) The EMS describes procedures that would be implemented to:</p> <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the operation and environmental performance of the project (sections 6.3 and 7); • receive, handle, respond to, and record complaints (section 6.4); • resolve any disputes that may arise during the course of the project (final paragraph in section 6.4); • respond to any non-compliance (section 9); and • respond to emergencies (section 8). 	<p>Ob 73 – To be considered.</p> <p>Ob 74 – To be actioned.</p>

Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>(f) The EMS sufficiently references related environmental strategies, plans and programs approved under the conditions of this approval, and lists the environmental monitoring required to be carried out under the conditions of this approval in Appendix C – Summary of Environmental Monitoring Program and Locations.</p> <p>Observation No. 73 – BHOP could establish formal processes (i.e. via internal or external audit) to demonstrate ‘implementation’ of the Environment Management Strategy.</p> <p>Observation No. 74 – As of March 2022, BHOP was unable to provide evidence that a Rasp Mine Environment Risk Register was being maintained and updated at least every three years, as referred to in section 5.1 of the Environment Management Strategy.</p>	
<p>Schedule 4 – Condition 2 – Environmental Management – Management Plan Requirements</p> <p>The Proponent shall ensure that the management plans required under this approval are prepared in accordance with relevant guidelines, and include:</p> <p>(a) detailed baseline data;</p> <p>(b) a description of:</p> <ul style="list-style-type: none"> the relevant statutory requirements (including any relevant approval, licence or lease conditions); any relevant limits or performance measures/criteria; and the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures; <p>(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</p> <p>(d) a program to monitor and report on the:</p> <ul style="list-style-type: none"> impacts and environmental performance of the project; and effectiveness of any management measures (see (c) above); 	<p>Non-compliant (low risk)</p> <p>2 Observations</p>	<p>The Environmental Management Plans (EMPs) required under this Project Approval are as follows:</p> <ul style="list-style-type: none"> Air Quality Management Plan (AQMP); Community Lead Management Plan (CLMP); Noise and Blasting Management Plan, which BHOP has divided into a Noise Monitoring Management Plan (NMMP), a Blast Monitoring Plan Management Plan (BMPMP) and a Technical Blasting Management Plan (TBMP); Site Water Management Plan (SWMP); Conservation Management Plan (CMP); Traffic Management Plan (TMP); Waste Management Plan (WMP); Rehabilitation Management Plan (RMP). <p>As of March 2022, the Conservation Management Plan (under Project Approval Schedule 3, condition 30), and the Rehabilitation Management Plan (under Project Approval Schedule 3, condition 35) have not been formally issued, and hence could not be assessed for compliance against this condition.</p> <p>In relation to paragraph (a) of this condition, it is acknowledged that baseline data may not be applicable to all EMPs.</p>	<p>NC – To be actioned, management plans to be updated accordingly (where practicable).</p> <p>Ob 75 – To be actioned.</p> <p>Ob 76 – To be considered.</p>

Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>(e) a contingency plan to manage any unpredicted impacts and their consequences;</p> <p>(f) a program to investigate and implement ways to improve the environmental performance of the project over time;</p> <p>(g) a protocol for managing and reporting any:</p> <ul style="list-style-type: none"> • incidents; • complaints; • non-compliances with the conditions of this approval and statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and <p>(h) a protocol for periodic review of the plan.</p> <p><i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i></p>		<p>It was considered that baseline data is applicable to the following EMPs ('relevant EMPs'): Air Quality Management Plan; Community Lead Management Plan; Noise Monitoring Management Plan; Site Water Management Plan; and Conservation Management Plan.</p> <p>It is considered that the EMPs in the above dot point list generally satisfy the requirements in paragraphs (b), (c), (d), (g) and (h) of this condition.</p> <p>Non-compliant (low risk) – In relation to paragraphs (a), (e) and (f) of this condition:</p> <p>(a) Not all of the relevant Environmental Management Plans (EMPs) include detailed baseline data. It was noted that the Air Quality Management Plan includes baseline air quality monitoring data, and section 7.2 of the Site Water Management Plan (SWMP) includes baseline data of groundwater quality.</p> <p>(e) Not all of the EMPs include a contingency plan (or any reference to a contingency plan) to manage any unpredicted impacts and their consequences. It was noted that sections 7.1 and 7.2 of the Community Lead Management Plan identify 'contingency' measures where air quality trends indicate an increase in lead emissions which can be attributed to the Rasp Mine, and sections 8.4 and 11.3.3 of the SWMP include details of contingency measures in relation to water quality in Horwood Dam, and unacceptable impacts to groundwater, respectively.</p> <p>(f) None of the EMPs include information relating to programs to investigate and implement ways to improve the environmental performance of the project over time.</p> <p>Observation No. 75 – Appendix 2 in BHOP's current Mining Operations Plan (1 October 2021 to 30 September 2023) lists the management plans required under the Project Approval, but:</p> <ul style="list-style-type: none"> • incorrectly identifies BHOP's Environment Management Strategy, and Rehabilitation Strategy, as Environmental Management Plans; • does not include the required Technical Blasting Management Plan; and • does not include the required Conservation Management Plan. 	

Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Observation No. 76 – BHOP could consider whether paragraph (f) of this condition could potentially be satisfied by preparing information which would be included as a section or appendix in all Environmental Management Plans (EMPs). For example, the EMPs could include information regarding a BHOP committee which holds periodic meetings to discuss and record actions to potentially improve the environmental performance of the project.</p>	
<p>Schedule 4 – Condition 3 – Environmental Management – Annual Review</p> <p>By the end of June 2012, and annually thereafter, the Proponent shall review the environmental performance of the project to the satisfaction of the Secretary. This review must:</p> <p>(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;</p> <p>(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:</p> <ul style="list-style-type: none"> • relevant statutory requirements, limits or performance measures/criteria; • monitoring results of previous years; and • relevant predictions in the documents referred to in Conditions 2 of Schedule 2; <p>(c) identify any non-compliance over the past year, and describe what actions were (or are being) taken to ensure compliance;</p> <p>(d) identify any trends in the monitoring data over the life of the project;</p> <p>(e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and</p> <p>(f) describe what measure will be implemented over the next year to improve the environmental performance of the project.</p>	<p>Compliant</p>	<p>Annual Reviews are prepared and submitted to the DPE. During the audit period, BHOP submitted the following Annual Reviews:</p> <ul style="list-style-type: none"> • 2019-2020 Annual Review (for the reporting period from 1 January 2019 to 30 April 2020 – DPE acknowledged receipt via email on 16 July 2020; and • 2020-2021 Annual Review (for the reporting period from 1 May 2020 to 30 April 2021 – DPE acknowledged receipt via email on 30 June 2021). <p>The 2019-2020 and 2020-2021 Annual Reviews are available on the CBH website.</p> <p>The Auditors consider that these Annual Reviews satisfy the requirements in paragraphs (a) to (f) of this condition.</p>	

Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 4 – Condition 4 – Environmental Management – Revision of Strategies, Plans & Programs</p> <p>Within three months of:</p> <p>(a) the submission of an annual review under Condition 3 above;</p> <p>(b) the submission of an incident report under Condition 5 below;</p> <p>(c) the submission of an audit report under Condition 7 below, or</p> <p>(d) any modification of 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.</p> <p><i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</i></p>	<p>Non-compliant (low risk)</p> <p>Observation</p>	<p>Non-compliant (low risk) – During the audit period, there were several instances of BHOP not complying with the ‘within three months’ requirement in this condition. Document control information (i.e. version history) in each of these strategies, plans and programs does not indicate whether the document was reviewed after each scenario in paragraphs (a) to (d) of this condition.</p> <p>Observation No. 77 – On the cover or second page of each strategy, plan and program required under this Project Approval, BHOP could insert a ‘Review Table’ or ‘Document History Table’ which includes the following details: a) date of review; b) name of reviewer; c) outcome of the review (i.e. ‘revisions required’ or ‘no revisions required’); and d) in the case of revisions being required, the date of submission of the relevant revised document to the Secretary (having regard to the amended wording of this condition in the consolidated Project Approval as modified on 16 March 2022 by Mod 6).</p>	<p>NC – To be actioned. Management plans to be review in relevant timeframe and include revision history.</p> <p>Ob 77 – To be actioned with future reviews.</p>
<p>Schedule 4 – Condition 5 – Reporting – Incident Notification, Reporting and Response</p> <p>The Secretary must be notified in writing via the Major Projects website immediately after the Proponent becomes aware of an incident. The notification must identify the project (including the development application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 5.</p>	<p>Compliant Observation</p>	<p>It is noted that this condition and Appendix 5 (Incident Notification and Reporting Requirements) of the Project Approval, in their current wording, were included in Mod 9 (i.e. on 23 December 2021, near the end of the audit period). The previous wording of this condition (first included in Mod 5 of October 2018) used a different definition of “incident”, and did not include an appendix with incident notification and reporting requirements.</p> <p>The only incident during the audit period under the ‘new’ wording of this condition (i.e. between 23 December 2021 and 11 March 2022), was the minor seepage from S49 Ryan Street Dam observed in a field inspection by BHOP’s Senior Environmental Advisor and the Lead Auditor on 10 March 2022.</p> <p>Following implementation of BHOP’s immediate response on that day (i.e. the pumping out of water from S49), on 11 March 2022 BHOP notified the DPE, EPA, Resources Regulator and Broken Hill City Council of the incident.</p>	<p>Ob 78 – To be actioned.</p>

Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>On 11 March 2022, details of the incident, agencies notified, and corrective actions, were entered into INX InControl (INX no. 6787 assigned). It was stated that the DPE was notified via the Major Projects website, and that the requirements of this condition were addressed in the notification.</p> <p>An example of timely notification (i.e. within 7 days) to the DPE under the previous wording of this condition (first included in Mod 5 of October 2018), is BHOP’s notification to the DPE of exceedances in relation to point source emissions testing at the Crusher Baghouse on 9 December 2021. BHOP received the test results from Assured Environmental on 11 January 2021.</p> <p>As noted in section 10 (page 90) of the 2020-2021 Annual Review: “The incident was reported to the EPA Hotline at 4:40PM, 11 January 2021. The report reference is C00480-2021/EPA114940. An email detailing the incident was provided to the Compliance, DPIE, on 14 January 2021.”</p> <p>Internally within BHOP, environmental incidents and exceedances of licence limits are entered into INX InControl with email notification to BHOP’s Senior Environmental Advisor. All reporting requires the BHOP employee to enter the incident into INX InControl, as no hard copy form exists for the internal reporting of incidents.</p> <p>No formal procedure exists or is maintained by BHOP that describes the process for the reporting of environmental incidents and non-compliances to external regulators.</p> <p>Observation No. 78 – BHOP could consider Appendix 5 of the Project Approval and develop an incident reporting form template for external regulators, which could be attached as an appendix to the Pollution Incident Response Management Plan.</p>	
<p>Schedule 4 – Condition 5A – Reporting – Non-Compliance Notification</p> <p>The Secretary must be notified in writing via the Major Projects website within seven days after the Proponent becomes aware of any non-compliance. A non-compliance notification must identify the project and the application number for it, set out the condition of approval that the</p>	<p>Non-compliant (low risk)</p> <p>4 Observations</p>	<p>It is noted that this condition, in its current form, was included in Mod 9 (i.e. on 23 December 2021, near the end of the audit period).</p> <p>The previous wording of this condition was first included in Mod 5 of October 2018), and used the same definition of ‘non-compliance’ as in Mod 9.</p>	<p>NC – To be conducted for future events.</p> <p>Ob 79 – To be actioned.</p> <p>Ob 80 – To be considered.</p>

Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>project is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.</p> <p><i>Note: A non-compliance which has been notified as an incident does not need to also be notified as a noncompliance.</i></p>		<p>Prior to Mod 5, there was no separate definition of ‘non-compliance’ in the Project Approval (i.e. ‘incident’ was defined, and ‘non-compliance’ was not defined).</p> <p>Examples of notification under the previous wording of this condition (Mod 5 of October 2018) are:</p> <ul style="list-style-type: none"> an email of 26 April 2019 from BHOP’s Senior Environmental Advisor to the relevant DPE ‘compliance’ email address, regarding a failure of the V2 Hire Yard blast monitor to record data for the blast that occurred at 6:45 pm on 19 April 2019 (INX no. 4701 assigned). This notification was within the required seven day period, but did not include a reference to the applicable condition that the project was not compliant with. an email of 2 January 2020 from BHOP’s Senior Environmental Advisor to the relevant DPE ‘compliance’ email address, regarding a software fault in the Silver Tank HVAS units (EPL monitoring points 10 and 11) on 2 January 2020, which prevented those units from monitoring on that day (INX no. 5456 assigned). This notification was within the required seven day period, but did not include a reference to the applicable condition that the project was not compliant with. <p>Observation No. 79 – In all notifications to the DPE under this condition, BHOP should as required by this condition, set out the condition of the Project Approval which the project was not compliant with.</p> <p>As of March 2022, BHOP does not have a documented procedure which defines the different definitions and reporting requirements (i.e. immediately vs within seven days) of ‘incident’ and ‘non-compliance’.</p> <p>Observation No. 80 – BHOP could develop an incident and non-compliance reporting procedure which defines the reporting workflow and potentially provides examples of the ‘incidents’ and ‘non-compliances’ as defined in the Project Approval.</p> <p>Observation No. 81 – BHOP should review its INX InControl system to verify if separate fields exist for ‘incident’ and ‘non-compliance’, which are separately identified in Project Approval, Schedule 4, conditions 5 and 5A.</p>	<p>Ob 81 – To be actioned.</p> <p>Ob 82 – Blasting in Block 7 is currently in compliance, issue was reported in AEMR and Annual Review. To be actioned if required in the future.</p>

Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Section 10 (Incidents and Non-Compliances during the Reporting Period) of BHOP’s Annual Reviews for 2019-2020 and 2020-2021 identify “Exceedance of blasting limits for Block 7 production blasts” (relating to Project Approval Schedule 3, condition 18).</p> <p>During this March 2022 audit, there was no evidence that BHOP had notified the DPE within seven days of becoming aware of these ‘non-compliances’ (i.e. “exceedance of blasting limits for Block 7 production blasts”), as defined under the previous wording of this condition (Mod 5 of October 2018).</p> <p>Non-compliant (low risk) – In relation to the exceedances of blasting limits for Block 7 production blasts, there was no evidence that BHOP has notified the DPE of a ‘non-compliance’ as defined in the Project Approval, within seven days of becoming aware of these exceedances.</p> <p>Observation No. 82 – BHOP should notify the DPE in accordance with Project Approval Schedule 4, condition 5A, within seven days of becoming aware of any exceedance in blasting limits for Block 7 production blasts.</p>	
<p>Schedule 4 – Condition 6 – Reporting – Regular Reporting</p> <p>The Proponent shall provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any approved plans or programs of the conditions of this approval.</p>	<p>Compliant Observation</p>	<p>As of March 2022, the CBH website includes the following reports relating to environmental performance of the project:</p> <ul style="list-style-type: none"> the November 2012 independent environmental audit report; the February 2016 independent environmental audit report; the February 2019 independent environmental audit report; the Toxikos / Pacific Environment Report titled: “Health Risk Assessment Rasp Mine Broken Hill”, dated 2 April 2015 (Job No. 08844); Monthly Environment Monitoring Reports from January 2014 to January 2022; AEMRs from 2012 to 2020; and Annual Reviews for 2019-2020 and 2020-2021. <p>Observation No. 83 – The CBH website could be updated to include the December 2020 “Human Health Risk Assessment for Rasp Mine, Mod 6” (SLR ref: 640.12028-R01-v3.0, dated 14 December 2020).</p>	<p>Ob 83 – To be considered.</p>

Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 4 – Condition 7 – Independent Environmental Audit</p> <p>By the end of December 2011, and every three 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:</p> <p>(a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;</p> <p>(b) include consultation with the relevant agencies;</p> <p>(c) assess the environmental performance of the project and whether it is complying with the relevant requirements in this approval and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals);</p> <p>(d) review the adequacy of any approved strategies, plans or programs required under these approvals; and, if appropriate</p> <p>(e) recommend measures or actions to improve the environmental performance of the project, and/or any strategy, plan or program required under these approvals.</p> <p><i>Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.</i></p>	<p>Compliant</p>	<p>The previous independent environmental audit of the project was conducted in February 2019.</p> <p>On 18 January 2022, the nominee of the Secretary of the DPE granted an extension of time (beyond the required three-yearly interval between independent environmental audits) until 7 March 2022, to conduct this March 2022 audit. Refer to the letter dated 18 January 2022, reproduced in Appendix 1 of this audit report.</p> <p>This March 2022 audit satisfies the requirements in paragraphs (a) to (e) of this condition as follows:</p> <p>(a) The Secretary’s nominee approved the engagement of the Audit Team (specifically, the Lead Auditor, Kurt Hammerschmid) by letter dated 10 December 2021. Refer to Appendix 1 of this audit report.</p> <p>(b) This audit has included consultation with the relevant agencies. Refer to Appendix 2 of this audit report.</p> <p>(c) This audit has assessed the environmental performance of the project and whether it is complying with the relevant requirements in this approval and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals). Refer to the audit findings and supporting evidence/comments in this audit report.</p> <p>(d) This audit has reviewed the adequacy of any approved strategies, plans or programs required under these approvals. Refer to audit findings and supporting evidence/comments in this audit report.</p> <p>(e) This audit has recommended measures or actions to improve the environmental performance of the project, and/or any strategy, plan or program required under these approvals. Refer to observations in this audit report.</p> <p>It was noted that the Project Approval as modified on 16 March 2022 (Mod 6 – New Tailing Storage Facility), requires the next independent environmental audit to be commissioned and paid for within one year of the date of physical commencement of development under Mod 6.</p>	

Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 4 – Condition 8 – Independent Environmental Audit</p> <p>Within six weeks of the completing 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.</p>	<p>Not triggered (as at March 2022)</p>	<p>As agreed by the Secretary, the deadline for submission of this audit report and BHOP's response to recommendations contained in this audit report, is 6 June 2022.</p> <p>Refer to the letter dated 22 March 2022, reproduced in Appendix 1 of this audit report.</p>	
<p>Schedule 4 – Condition 9 – Access to Information</p> <p>From the end of March 2011, the Proponent shall:</p> <p>(a) make copies of the following publicly available on its website:</p> <ul style="list-style-type: none"> the documents referred to in Condition 2 of Schedule 2; all current statutory approvals for the project; all approved strategies, plans and programs required under the conditions of this approval; the monitoring results of the project, reported in accordance with the specifications in any conditions of this approval, or any approved plans or programs; a complaints register, updated on a monthly basis; the annual reviews of the project; any independent environmental audit of the project, and the Proponent's response to the recommendations in any audit; and any other matter required by the Secretary; <p>(b) keep this information up-to-date, to the satisfaction of the Secretary.</p>	<p>Administrative non-compliance</p> <p>2 Observations</p>	<p>As of March 2022, the majority of documents which this condition requires to be available on the CBH website were on the CBH website.</p> <p>Administrative non-compliance – The following documents which this condition requires to be on the CBH website, were not available on the CBH website as of March 2022:</p> <ul style="list-style-type: none"> Blasting Monitoring Program Management Plan (BHO-PLN-ENV-006); Technical Blasting Management Plan (BHO-PLN-MIN-002); Conservation Management Plan, which had not been formally issued as of March 2022; and Rehabilitation Management Plan, which had not been formally issued as of March 2022. <p>Observation No. 84 – Although CML7 is available on the CBH website by virtue of being included as Annexure C to the Rasp Mine Environmental Assessment Report (July 2010) and as Appendix B to the MOD 4 EA, for ease of access, CML7 could be made available as a separately defined document on the CBH website.</p> <p>Observation No. 85 – The next revision of the Noise Monitoring Management Plan could include relevant 'Project Approval' related information in the Blasting Monitoring Program Management Plan (BMPMP) and Technical Blasting Management Plan (TBMP). The BMPMP and TBMP would then not have to be available on the CBH website.</p>	<p>ANC – To be actioned, documents to be posted to the website.</p> <p>Ob 84 – To be investigated.</p> <p>Ob 85 – To be investigated.</p>

Project Approval 07_0018 (Mod 9) Schedule 4 – Environmental Management, Reporting and Auditing			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>Schedule 4 – Condition 10 – Independent Review</p> <p>If an owner of privately-owned land considers the development to be exceeding the criteria in schedule 3 at his/her land, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.</p> <p><i>[Auditor's Note: The opening words in the next paragraph are repeated.]</i></p> <p>If the Secretary is satisfied that an independent review is warranted, then the Proponent shall:</p> <p>(a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to:</p> <ul style="list-style-type: none"> • consult with the landowner to determine his/her concerns; • conduct monitoring to determine whether the development is complying with the relevant impact assessment criteria in schedule 3; and • if the development is not complying with these criteria then identify the measures that could be implemented to ensure compliance with the relevant criteria; and <p>(b) give the Secretary and landowner a copy of the independent review within 2 months of the Secretary's decision, unless the Secretary agrees otherwise.</p>	<p>Compliant</p>	<p>It was stated that during the audit period, BHOP has not been contacted by the DPE in relation to a request from an owner of privately-owned land for an independent review of the impacts of the development (i.e. the project) on his/her land.</p>	

Environment Protection Licence Number 12559 as at 4 October 2019												
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response									
1 Administrative Conditions												
A1 What the licence authorises and regulates												
<p>A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.</p> <p>Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.</p> <table border="1"> <thead> <tr> <th>Scheduled Activity</th> <th>Fee Based Activity</th> <th>Scale</th> </tr> </thead> <tbody> <tr> <td>Crushing, grinding or separating</td> <td>Crushing, grinding or separating</td> <td>> 500000 - 2000000 T annual processing capacity</td> </tr> <tr> <td>Mining for minerals</td> <td>Mining for minerals</td> <td>> 500000 - 2000000 T annual production capacity</td> </tr> </tbody> </table>	Scheduled Activity	Fee Based Activity	Scale	Crushing, grinding or separating	Crushing, grinding or separating	> 500000 - 2000000 T annual processing capacity	Mining for minerals	Mining for minerals	> 500000 - 2000000 T annual production capacity	<p>Compliant</p>	<p>As noted in BHOP’s Annual Environmental Management Reports (AEMRs) for 2019, 2020 and 2021 (Table 2-2 – Ore and Waste Summary for the Reporting Period), the “Ore Tonnes Mined: Dry Tonnes” on a calendar year basis were:</p> <ul style="list-style-type: none"> • 2019 – 649,902 tonnes; • 2020 – 552,398 tonnes; • 2021 – 459,684 tonnes. <p>The “Ore Tonnes Mined: Dry Tonnes” in 2021 was less than the “>500000 T” lower limit in the table in this condition. However, the Auditors consider that BHOP has complied with the “maximum scale” wording of this condition.</p> <p>It was noted that the Project Approval prescribes only a ‘maximum’ limit of extraction, which until approval of BHOP’s Mod 6 application on 16 March 2022, was 750,000 tonnes of ore per annum.</p> <p>Auditor’s Note – The lower limit of >500000 T in the table in this condition should be removed, for consistency with:</p> <ol style="list-style-type: none"> the “maximum scale” wording of this condition; and Project Approval Schedule 2, condition 6, which as of 16 March 2022 (i.e. including Mod 6) reads (in part): “The Proponent shall not extract more than 500,000 tonnes of ore per annum on-site”. <p>Auditor’s Note – The maximum scale specified in this condition is expressed as a ‘greater than’ amount, which contradicts the words, “must not exceed”. It is also unclear whether “production” in the condition refers to the amount of ore processed in the plant or the amount of saleable product (i.e. concentrate).</p>	
Scheduled Activity	Fee Based Activity	Scale										
Crushing, grinding or separating	Crushing, grinding or separating	> 500000 - 2000000 T annual processing capacity										
Mining for minerals	Mining for minerals	> 500000 - 2000000 T annual production capacity										
A2 Premises or plant to which this licence applies												
A2.1 The licence applies to the following premises:	Note	Relevant BHOP personnel were aware of and understood that the EPL applies to CML7.										

Environment Protection Licence Number 12559 as at 4 October 2019										
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response							
<table border="1"> <tr><td>Premises Details</td></tr> <tr><td>CONSOLIDATED MINING LEASE 7</td></tr> <tr><td>EYRE STREET</td></tr> <tr><td>BROKEN HILL</td></tr> <tr><td>NSW 2880</td></tr> <tr><td> </td></tr> <tr><td>WILLYAMA COMMON, RESERVE 2421</td></tr> </table>	Premises Details	CONSOLIDATED MINING LEASE 7	EYRE STREET	BROKEN HILL	NSW 2880		WILLYAMA COMMON, RESERVE 2421			
Premises Details										
CONSOLIDATED MINING LEASE 7										
EYRE STREET										
BROKEN HILL										
NSW 2880										
WILLYAMA COMMON, RESERVE 2421										
A3 Other activities										
<p>A3.1 This licence applies to all other activities carried on at the premises, including:</p> <table border="1"> <tr><td>Ancillary Activity</td></tr> <tr><td>Chemical storage</td></tr> <tr><td>Concrete batching</td></tr> <tr><td>Metallurgical activities</td></tr> <tr><td>Railway system activities</td></tr> </table>	Ancillary Activity	Chemical storage	Concrete batching	Metallurgical activities	Railway system activities	Note	Relevant BHOP personnel were aware of and understood this condition.			
Ancillary Activity										
Chemical storage										
Concrete batching										
Metallurgical activities										
Railway system activities										
A4 Information supplied to the EPA										
<p>A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.</p> <p>In this condition the reference to "the licence application" includes a reference to:</p> <ul style="list-style-type: none"> a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence. 	Compliant	<p>It was stated that works and activities are being carried out across the operation in accordance with the conditions of the EPL.</p> <p>In addition to requirements specified in the EPL, BHOP also operates under a Mining Operations Plan (MOP) and commitments defined in other submitted Environmental Management Plans.</p>								

Environment Protection Licence Number 12559 as at 4 October 2019			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>A4.2 For the purposes of condition A3.1 the licence application includes: <i>[Auditor’s Note: incorrect cross-reference.]</i></p> <ol style="list-style-type: none"> 1) The Project Approval issued by the Department of Planning and Infrastructure on 31 January 2011; 2) The Project Approval modification titled "Rasp Mine Mod 1" issued by the Department of Planning and Infrastructure issued on 16 March 2012; 3) The Environmental Assessment titled "Final Report - Rasp Mine" dated July 2010; 4) The Environmental Assessment titled "Rasp Mine - Preferred Project Report" dated September 2010; 5) Broken Hill Operations Pty Ltd Rasp Mine "Noise and Blast Management Plan" submitted to the EPA on the 14 October 2011. 6) The Environmental Assessment titled "Rasp Mine - Relocation of Ventilation Shaft" dated November 2011; 7) The Broken Hill Operations Pty Ltd Rasp Mine "Air Quality Management Plan" submitted to the EPA in March 2011; 8) The Broken Hill Operations Pty Ltd Rasp Mine "Site Water Management Plan" dated 20 March 2012 and; 9) The Broken Hill Operations Pty Ltd Rasp Mine "Construction and Operations Manual for Tailing Storage in Blackwood Pit" submitted to the EPA in April 2012. 	<p>Compliant Observation</p>	<p>BHOP has submitted the necessary documents and plans to secure approval for the issuing of the EPL and variations of the EPL.</p> <p>Observation No. 86 – Ideally, BHOP should submit the TSF2 "Operation, Maintenance and Surveillance Manual" (Doc ID: BHO-MAN-MET-029, Golder Associates, V1, issued on 15 June 2020) to the EPA, even though paragraph 9) of this condition is out of date. Other updated documents could be submitted on the EPA’s request. Alternatively, BHOP could request this condition to be updated or removed from the EPL.</p> <p>Auditor’s Note – This condition refers to documents which may have been superseded by more recent documents.</p>	<p>Ob 86 – To be investigated.</p>

Environment Protection Licence Number 12559 as at 4 October 2019																																																																			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response																																																																
2 Discharges to Air and Water and Applications to Land																																																																			
P1 Location of monitoring/discharge points and areas																																																																			
<p>P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.</p> <p style="text-align: center;"><i>Air</i></p> <table border="1"> <thead> <tr> <th>EPA identification no.</th> <th>Type of Monitoring Point</th> <th>Type of Discharge Point</th> <th>Location Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dust and blast monitoring</td> <td></td> <td>Ventilation shaft labelled "Proposed exhaust shaft location" in Figure 2 titled "Ventilation rise alternate location" in the environmental assessment titled "Rasp Mine Variation to Project - Relocation of Ventilation Shaft" dated November 2011</td> </tr> <tr> <td>2</td> <td>Dust process plant monitoring</td> <td></td> <td>Process enclosure/Baghouse stack labelled "Primary crusher & Dust extraction unit" in Figure 2-4 titled "Plant Layout" in the environmental assessment titled "Rasp Mine - Preferred Project Report" dated September 2010.</td> </tr> <tr> <td>3</td> <td>Dust monitoring</td> <td></td> <td>Dust deposition gauge labelled D1 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>4</td> <td>Dust monitoring</td> <td></td> <td>Dust deposition gauge labelled D2 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>5</td> <td>Dust Monitoring</td> <td></td> <td>Dust deposition gauge labelled D3 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>6</td> <td>Dust Monitoring</td> <td></td> <td>Dust deposition gauge labelled D4 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>7</td> <td>Dust monitoring</td> <td></td> <td>Dust deposition gauge labelled D5 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>8</td> <td>Dust monitoring</td> <td></td> <td>Dust deposition gauge labelled D6 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>9</td> <td>Dust monitoring</td> <td></td> <td>Dust deposition gauge labelled D7 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>10</td> <td>Dust monitoring</td> <td></td> <td>High volume dust sampler labelled TSP-HVAS on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>11</td> <td>Dust monitoring</td> <td></td> <td>High volume dust sampler labelled PM10-HVAS1 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>12</td> <td>Dust monitoring</td> <td></td> <td>High volume dust sampler labelled PM10-HVAS2 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>13</td> <td>Dust monitoring</td> <td></td> <td>Tapered element oscillating microbalance sampler labelled TEOM1 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>14</td> <td>Dust monitoring</td> <td></td> <td>Tapered element oscillating microbalance sampler labelled TEOM2 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>57</td> <td>Dust monitoring</td> <td></td> <td>High volume dust sampler labelled TSP-HVAS on map.....</td> </tr> </tbody> </table>	EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description	1	Dust and blast monitoring		Ventilation shaft labelled "Proposed exhaust shaft location" in Figure 2 titled "Ventilation rise alternate location" in the environmental assessment titled "Rasp Mine Variation to Project - Relocation of Ventilation Shaft" dated November 2011	2	Dust process plant monitoring		Process enclosure/Baghouse stack labelled "Primary crusher & Dust extraction unit" in Figure 2-4 titled "Plant Layout" in the environmental assessment titled "Rasp Mine - Preferred Project Report" dated September 2010.	3	Dust monitoring		Dust deposition gauge labelled D1 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	4	Dust monitoring		Dust deposition gauge labelled D2 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	5	Dust Monitoring		Dust deposition gauge labelled D3 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	6	Dust Monitoring		Dust deposition gauge labelled D4 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	7	Dust monitoring		Dust deposition gauge labelled D5 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	8	Dust monitoring		Dust deposition gauge labelled D6 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	9	Dust monitoring		Dust deposition gauge labelled D7 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	10	Dust monitoring		High volume dust sampler labelled TSP-HVAS on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	11	Dust monitoring		High volume dust sampler labelled PM10-HVAS1 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	12	Dust monitoring		High volume dust sampler labelled PM10-HVAS2 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	13	Dust monitoring		Tapered element oscillating microbalance sampler labelled TEOM1 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	14	Dust monitoring		Tapered element oscillating microbalance sampler labelled TEOM2 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06	57	Dust monitoring		High volume dust sampler labelled TSP-HVAS on map.....	<p>Compliant Observation</p>	<p>BHOP can demonstrate that dust and/or dust and blast monitoring is conducted at the locations defined in the table in this condition.</p> <p>BHOP has labelled its environmental monitoring sites with EPL ID numbers. Selected monitoring sites inspected during this March 2022 audit were identified by EPL ID numbers. Refer to observation below.</p>  <p>Photo 24 – (left to right) Monitoring equipment on TSF2 Embankment 2 and labelled as EPL monitoring points '57', '13', '9' and '14' (9 March 2022)</p> <p>Observation No. 87 – BHOP should review the EPL monitoring point labels in the table in this condition against the HVAS units in the field. EPL monitoring point 12 (TSP-HVAS2) in the table is labelled by BHOP in the field (see above photo) as EPL monitoring point 13. EPL monitoring point 57 (TSP-HVAS) in the table is identified by BHOP in the field as TSP-HVAS3.</p>	<p>Ob 87 – To be actioned.</p>
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description																																																																
1	Dust and blast monitoring		Ventilation shaft labelled "Proposed exhaust shaft location" in Figure 2 titled "Ventilation rise alternate location" in the environmental assessment titled "Rasp Mine Variation to Project - Relocation of Ventilation Shaft" dated November 2011																																																																
2	Dust process plant monitoring		Process enclosure/Baghouse stack labelled "Primary crusher & Dust extraction unit" in Figure 2-4 titled "Plant Layout" in the environmental assessment titled "Rasp Mine - Preferred Project Report" dated September 2010.																																																																
3	Dust monitoring		Dust deposition gauge labelled D1 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
4	Dust monitoring		Dust deposition gauge labelled D2 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
5	Dust Monitoring		Dust deposition gauge labelled D3 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
6	Dust Monitoring		Dust deposition gauge labelled D4 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
7	Dust monitoring		Dust deposition gauge labelled D5 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
8	Dust monitoring		Dust deposition gauge labelled D6 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
9	Dust monitoring		Dust deposition gauge labelled D7 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
10	Dust monitoring		High volume dust sampler labelled TSP-HVAS on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
11	Dust monitoring		High volume dust sampler labelled PM10-HVAS1 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
12	Dust monitoring		High volume dust sampler labelled PM10-HVAS2 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
13	Dust monitoring		Tapered element oscillating microbalance sampler labelled TEOM1 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
14	Dust monitoring		Tapered element oscillating microbalance sampler labelled TEOM2 on map "Figure 1" submitted to the EPA on 02/03/12 and kept on EPA file LIC07/2213-06																																																																
57	Dust monitoring		High volume dust sampler labelled TSP-HVAS on map.....																																																																

Environment Protection Licence Number 12559 as at 4 October 2019																															
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response																												
P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.	Note	Relevant BHOP personnel were aware of and understood the requirements specified in the table within EPL condition P1.3.																													
<p>P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.</p> <p style="text-align: center;"><i>Water and land</i></p> <table border="1"> <thead> <tr> <th>EPA Identification no.</th> <th>Type of Monitoring Point</th> <th>Type of Discharge Point</th> <th>Location Description</th> </tr> </thead> <tbody> <tr> <td>29</td> <td>Surface water monitoring</td> <td></td> <td>Storm water pond labelled "S31-1" as shown in Figure 3 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>31</td> <td>Surface water monitoring</td> <td></td> <td>Storm water pond labelled "S49" as shown in Figure 2 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>32</td> <td>Surface water monitoring</td> <td></td> <td>Storm water pond labelled "S1-A" as shown in Figure 2 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>33</td> <td>Surface water monitoring</td> <td></td> <td>Storm water pond labelled "S9B-2" as shown in Figure 5 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>34</td> <td>Surface water monitoring</td> <td></td> <td>Storm water pond labelled "Horwood Dam" as shown in Figure 6 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06</td> </tr> <tr> <td>35</td> <td>Off site receiving waters</td> <td></td> <td>Ephemeral drainage line upstream of the Rasp Mine shown as "Monitoring location 1 upstream" on Map 1 in the email to the EPA on 3 April 2012 and kept on EPA file LIC07/2213-06</td> </tr> </tbody> </table>	EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description	29	Surface water monitoring		Storm water pond labelled "S31-1" as shown in Figure 3 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	31	Surface water monitoring		Storm water pond labelled "S49" as shown in Figure 2 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	32	Surface water monitoring		Storm water pond labelled "S1-A" as shown in Figure 2 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	33	Surface water monitoring		Storm water pond labelled "S9B-2" as shown in Figure 5 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	34	Surface water monitoring		Storm water pond labelled "Horwood Dam" as shown in Figure 6 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	35	Off site receiving waters		Ephemeral drainage line upstream of the Rasp Mine shown as "Monitoring location 1 upstream" on Map 1 in the email to the EPA on 3 April 2012 and kept on EPA file LIC07/2213-06	Compliant Observation	<p>It was stated that during the audit period, BHOP has conducted surface water and groundwater monitoring as required under this condition at the locations listed in the table in this condition.</p> <p>BHOP can demonstrate that groundwater monitoring is conducted at the locations defined in the table in this condition (i.e. for the 18 groundwater monitoring bores defined in this table).</p> <p>It was stated that all monitoring points in the "Water and Land" table for this condition are in use/were accessible as of March 2022.</p> <p>Observation No. 88 – BHOP could consider installing locks on all groundwater monitoring bores (especially those which are located outside the CML7 boundary fence) to prevent the risk of groundwater sample contamination from unauthorised access to those bores.</p>	Ob 88 – To be actioned.
EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description																												
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Environment Protection Licence Number 12559 as at 4 October 2019			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
36	Off site receiving waters	Ephemeral drainage line downstream of the Rasp Mine shown as "Monitoring location 2 downstream" on Map 1 in the email to the EPA on 3 April 2012 and kept on EPA file LIC07/2213-06	
37	Groundwater monitoring	Groundwater monitoring bore labelled "GW01" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
38	Groundwater monitoring	Groundwater monitoring bore labelled "GW02" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
39	Groundwater monitoring	Groundwater monitoring bore labelled "GW03" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
40	Groundwater monitoring	Groundwater monitoring bore labelled "GW04" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
41	Groundwater monitoring	Groundwater monitoring bore labelled "GW05" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
42	Groundwater monitoring	Groundwater monitoring bore labelled "GW06" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
43	Groundwater monitoring	Groundwater monitoring bore labelled "GW07" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
44	Groundwater monitoring	Groundwater monitoring bore labelled "GW08" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
45	Groundwater monitoring	Groundwater monitoring bore labelled "GW09" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
46	Groundwater monitoring	Groundwater monitoring bore labelled "GW10" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
47	Groundwater monitoring	Groundwater monitoring bore labelled "GW11" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
48	Groundwater monitoring	Groundwater monitoring bore labelled "GW12" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
49	Groundwater monitoring	Groundwater monitoring bore labelled "GW13" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
50	Groundwater monitoring	Groundwater monitoring bore labelled "GW14" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
51	Groundwater monitoring	Groundwater monitoring bore labelled "GW15" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
52	Groundwater monitoring	Groundwater monitoring bore labelled "GW16" in Figure 8 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
53	Groundwater monitoring	Surface water pond for Shaft 7 mine water labelled "Mine Settlement Ponds" as shown in Figure 3 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
54	Groundwater monitoring	Surface water pond for Kintore Pit mine water labelled "Mine Settlement Ponds" as shown in Figure 3 of the Site Water Management Plan dated 20 March 2012 and kept on EPA file LIC07/2213-06	
P1.4	The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises.	<p>Compliant Observation</p> <p>The noise and meteorological monitoring points (i.e. EPL monitoring points 15 to 28 and 55) listed in the table within this condition remain valid and applicable and are utilised as BHOPs existing noise and meteorological monitoring points.</p> <p>Observation No. 89 – With the next scheduled variation/update of the EPL, the "location description" (i.e. EPA Identification No. 55) for the meteorological station commissioned in January 2019 could be defined in the table in this condition.</p>	Ob 89 – To be actioned.

Environment Protection Licence Number 12559 as at 4 October 2019				
Condition Number and Requirement		Audit Finding	Supporting Evidence/Comments	BHOP Response
<i>Noise/Weather</i>				
EPA identification no.	Type of monitoring point	Location description		
15	Noise monitoring	Point labelled "A1" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.		
16	Noise monitoring	Point labelled "A2" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.		
17	Noise monitoring	Point labelled "A3" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.		
18	Noise monitoring	Point labelled "A4" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.		
19	Noise monitoring	Point labelled "A5" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.		
20	Noise monitoring	Point labelled "A6" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.		
21	Noise monitoring	Point labelled "A7" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.		

Environment Protection Licence Number 12559 as at 4 October 2019			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
22	Noise monitoring	Point labelled "A8" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.	
23	Noise monitoring	Point labelled "A9" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.	
24	Noise monitoring	Point labelled "A10" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.	
25	Noise monitoring	Point labelled "A11" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.	
26	Noise monitoring	Point labelled "A12" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.	
27	Noise monitoring	Point labelled "A13" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.	
28	Noise monitoring	Point labelled "A14" in Figure 1 of the report at Appendix C of the Rasp Mine Environmental Assessment titled "Modification 3 Mining Extension" dated November 2014 kept at DOC14/279713-01 on EPA file EF13/4102.	
55	Meteorological Station – to determine meteorological conditions for noise monitoring		

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
3 Limit Conditions			
L1 Pollution of waters			
L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.	Non-compliant (low risk)	<p>Relevant BHOP personnel were aware that it is an offence under section 120 of the Protection of the Environment Operations Act 1997 to pollute waters, except as expressly provided in any other condition of the EPL.</p> <p>Refer to supporting evidence/comments for Project Approval Schedule 3, condition 21; and refer to supporting evidence/comments for Project Approval Schedule 4, condition 5, in relation to the minor seepage from the S49 Ryan Street Dam, which was observed on 10 March 2022.</p> <p>Non-compliant (low risk) – On 10 March 2022, minor seepage was observed from the S49 Ryan Street Dam adjacent to and across the site boundary.</p>	<p>NC – Incident was self-reported to EPA and DPE. Controls were implemented to control minor seepage. Determination of suitable controls to prevent recurrence being finalized. Investigation report to be provided to EPA and DPE.</p>
L2 Concentration Limits			
L2.1 For each monitoring/discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.	Non-compliant (low risk)	<p>The air concentration limits in the table within EPL condition L2.2 are the same as the discharge criteria limits in Tables 4 and 5 of Project Approval Schedule 3, condition 4.</p> <p>Refer to supporting evidence/comments for Project Approval Schedule 3, condition 4.</p> <p>Non-compliant (low risk) – In respect of quarterly air emissions testing conducted at the Crusher Baghouse (EPL ID 2) on 9 December 2020, BHOP reported exceedances of the discharge criteria in the relevant tables of this condition, for both TSP and Type 1 and 2 substances.</p>	<p>NC – Incident was self-reported to EPA and DPE. Controls were implemented to mitigate the risk of recurrence. Investigation report provided to EPA and DPE.</p>
L2.2 Air Concentration Limits	Compliant	Refer to supporting evidence/comments for Project Approval Schedule 3, condition 4.	

Environment Protection Licence Number 12559 as at 4 October 2019																																																			
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Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period																																														
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L3 Waste																																																			
L3.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.	Compliant	<p>There is no landfill facility on CML7.</p> <p>Relevant BHOP personnel were aware of and understood that BHOP is not authorised to accept any externally generated waste, for disposal in any location within the mining lease.</p> <p>The EPL does not currently permit any exception to the requirements of this condition.</p>																																																	
L4 Noise Limits																																																			
L4.1 Operational activities associated with the project are permitted to occur at any time, subject to compliance with the noise limits specified at condition L4.2 and subject to the following restrictions:	Compliant	<p>Relevant BHOP personnel were aware of and understood the restrictions in relevant activities associated with: a) the authorised times that shunting of the concentrate wagons can occur; and b) the authorised times that underground production rock blasting can occur.</p>																																																	

Environment Protection Licence Number 12559 as at 4 October 2019																																																															
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a) Shunting of the concentrate wagons must only occur between 7.00am and 6.00pm on any day; and b) Production rock blasting must only occur between 6.45am and 7.15pm on any day.		It was stated that during the audit period, operational activities associated with the shunting of concentrate wagons and underground production rock blasting has only occurred during the authorised times listed in this condition.																																																													
L4.2 Noise from the Rasp Mine premises must not exceed the limits presented in the table below at the monitoring locations listed in column 1.	Not verified	The noise limits in the table within EPL condition L4.2 are the same as the noise criteria limits in Table 7 of Project Approval Schedule 3, condition 17. Refer to supporting evidence/comments for Project Approval Schedule 3, condition 17. Not verified – At the time of writing this March 2022 audit report, it could not be verified whether BHOP has investigated all noise limit exceedances from internal noise monitoring, and eliminated the possibility that project-generated noise has caused or contributed to the exceedances.	NV – To be actioned. Noise exceedances to be reviewed.																																																												
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Point 22 - A8 South Road	48	39	39																																																												
Point 23 - A9 Crystal Street	46	39	39																																																												
Point 24 - A10 Bimet & Blanka Streets	42	41	35																																																												
Point 25 - A11 Crystal Street	46	39	39																																																												
Point 26 - A12 Crystal Street	46	39	39																																																												
Point 27 - A13 Eyre Street North 2	36	35	35																																																												
Point 28 - A14 Piper Street North	35	35	35																																																												
L4.3 Noise from the premises is to be measured at the most affected point within the boundary of the nominated premises, or at the most affected point within 30 metres of a dwelling where the dwelling is more than 30 metres from the boundary, to determine compliance with the noise level limits in Condition L4.2 unless otherwise stated. Where it can be demonstrated that direct measurement of noise from the premises is impractical, the EPA may accept alternative means	Compliant Observation	Noise is monitored annually by external noise consultant, EMM at 14 receiver locations (i.e. residential dwellings) in accordance with the locations defined in the EPL (i.e. Point 15 to Point 28). Section 2.2 (Modification factors) in EMM’s noise survey report (titled: “Annual attended noise monitoring assessment”) issued on 14 May 2021 stated that: “The NPfI methodology has been applied to this assessment as presented in Section 4 [of the report, in relation to the application of modification factors].”	Ob 90 – To be actioned.																																																												

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<p>of determining compliance. See Chapter 11 of the NSW Industrial Noise Policy.</p> <p>The modification factors presented in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.</p>		<p>Observation No. 90 – BHOP could review the October 2017 NSW EPA Noise Policy for Industry (or discuss with the consultant, EMM) to verify whether: a) the Noise Policy for Industry requires an alternate noise monitoring survey regime to be adopted; and b) whether the Policy defines that only night time noise survey monitoring is required to be conducted by the relevant industrial sites to which the Policy applies.</p> <p>Auditor’s Note – The NSW Industrial Noise Policy referred to in this condition was replaced in October 2017 by the NSW Noise Policy for Industry.</p>	
<p>L4.4 The noise limits set out in the Noise Limits table apply under all meteorological conditions except for the following:</p> <ul style="list-style-type: none"> a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or b) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or c) Stability category G temperature inversion conditions. <p>For the purposes of this condition:</p> <ul style="list-style-type: none"> a) Data recorded by the meteorological station identified as EPA Identification Point(s) 55 must be used to determine meteorological conditions; and b) Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW Industrial Noise Policy. 	<p>Compliant</p>	<p>In relation to paragraph a) of this condition, Table 4.1 (Attended noise monitoring results) in the 14th May 2021 EMM noise survey report identified that:</p> <ul style="list-style-type: none"> • meteorological data was obtained from the site’s automatic weather station (at 10 m above ground); and • where the relevant EPL noise limit does not apply due to wind speed above 3 m/s at 10 m above ground; and • where a measurement result was inaudible. <p>In relation to paragraph b) of this condition, section 2 of the 14th May 2021 EMM noise survey report provided details of stability category F temperature inversion conditions (which “were identified to be present during the first six measurements on 3 May 2021”) and whether wind speeds were lower than 2 m/s (in which case “the noise limits were still considered to be applicable”) or greater than 2 m/s (in which case “the noise limits did not apply”).</p> <p>In relation to paragraph c) of this condition, section 4 of the 14th May 2021 EMM noise survey report stated:</p> <p>“The presence or otherwise of stability category F or G temperature inversion conditions was determined with available sigma theta data, in accordance with Fact Sheet D of the NPfI (EPA 2017).”</p> <p>Auditor’s Note – The NSW Industrial Noise Policy referred to in this condition was replaced in October 2017 by the NSW Noise Policy for Industry.</p>	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response												
L5 Blasting															
<p>L5.1 The overpressure sound level and ground vibration peak particle velocity from blasting operations carried out in or on the premises, excluding Block 7, for the period 7am to 7pm must not exceed the limits in the table below unless expressly provided by a condition of this licence.</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Airblast Overpressure (dB - Lin Peak)</th> <th>Ground Vibration (mm/s)</th> <th>Allowable Exceedance</th> </tr> </thead> <tbody> <tr> <td>Residence on privately owned land</td> <td>115</td> <td>5</td> <td>5% of the total number of blasts in any 12 month annual return reporting period</td> </tr> <tr> <td>Residence on privately owned land</td> <td>120</td> <td>10</td> <td>0%</td> </tr> </tbody> </table> <p>Note: • The allowable exceedance must be calculated separately for development blasts and production blasts; • The 5% allowable exceedance does not apply to the production blasts until the licensee has completed a Pollution Studies and Reduction Program at condition U5.1 aimed at achieving the limit or as otherwise agreed with the EPA; and • 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.</p>	Location	Airblast Overpressure (dB - Lin Peak)	Ground Vibration (mm/s)	Allowable Exceedance	Residence on privately owned land	115	5	5% of the total number of blasts in any 12 month annual return reporting period	Residence on privately owned land	120	10	0%	<p>Compliant</p>	<p>Refer to supporting evidence/comments for Project Approval Schedule 3, condition 18.</p> <p>During the audit period there was no identified exceedance of blast noise and vibration criteria at Rasp Mine, excluding Block 7.</p>	
Location	Airblast Overpressure (dB - Lin Peak)	Ground Vibration (mm/s)	Allowable Exceedance												
Residence on privately owned land	115	5	5% of the total number of blasts in any 12 month annual return reporting period												
Residence on privately owned land	120	10	0%												
<p>L5.2 The overpressure sound level and ground vibration peak particle velocity from blasting operations carried out in or on the premises at Block 7 for the period 7am to 7pm must not exceed the limits in the table below unless expressly provided by a condition of this licence.</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Airblast Overpressure - dB Lin Peak</th> <th>Ground Vibration - mm/s</th> <th>Allowable Exceedance</th> </tr> </thead> <tbody> <tr> <td>Residence of privately owned land</td> <td>115</td> <td>3 (interim)</td> <td>5% of the total number of blasts over the 12 month annual return reporting period</td> </tr> <tr> <td>Residence of privately owned land</td> <td>120</td> <td>10</td> <td>0%</td> </tr> </tbody> </table> <p>Note: • The allowable exceedance must be calculated separately for development and production blasts; • The interim limit applies unless the licensee has written consent from the Department of Planning and Environment to apply an alternative site specific criteria for Block 7; and • 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.</p>	Location	Airblast Overpressure - dB Lin Peak	Ground Vibration - mm/s	Allowable Exceedance	Residence of privately owned land	115	3 (interim)	5% of the total number of blasts over the 12 month annual return reporting period	Residence of privately owned land	120	10	0%	<p>Non-compliant (low risk)</p>	<p>Refer to supporting evidence/comments for Project Approval Schedule 3, condition 18.</p> <p>Non-compliant (low risk) – During the audit period, BHOP exceeded the allowable 5% above 3mm/s limit (for ground vibration) of the total number of blasts over a 12 month period at Block 7 (V5 blast monitor).</p>	<p>NC – Blasting in Block 7 is currently in compliance, issue was reported in AEMR and Annual Review. To be actioned if required in the future.</p>
Location	Airblast Overpressure - dB Lin Peak	Ground Vibration - mm/s	Allowable Exceedance												
Residence of privately owned land	115	3 (interim)	5% of the total number of blasts over the 12 month annual return reporting period												
Residence of privately owned land	120	10	0%												
<p>L5.3 The licensee may carry out a maximum of:</p> <p>a) 1 production blast each day and 6 production blasts each week, averaged over a calendar year; and</p>	<p>Compliant</p>	<p>The blast frequency limits in this condition are the same as the blast frequency limits in Project Approval Schedule 3, condition 19A.</p> <p>Refer to supporting evidence/comments for Project Approval Schedule 3, condition 19A.</p>													

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
b) 6 development blasts each day and 42 development blasts each week, averaged over a calendar year.			
L5.4 The overpressure level from blasting operations at the premises must not exceed 105dB (Lin Peak) for the period 7pm to 10pm at any noise sensitive location: 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.	Compliant	Refer to supporting evidence/comments for Project Approval Schedule 3, condition 18. This condition applies to both development and production blasting. In relation to production blasting, the 105dB (Lin Peak) limit in this condition applies to production blasting conducted from 7:00pm to 7:15pm.	
L5.5 The overpressure level from blasting operations at the premises must not exceed 95dB (Lin Peak) for the period 10pm to 7am 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.	Compliant	Refer to supporting evidence/comments for Project Approval Schedule 3, condition 18, in relation to airblast overpressure. This condition applies to both development and production blasting. In relation to production blasting the 95dB (Lin Peak) limit in this condition applies to production blasting conducted from 6:45am to 7:00am. During the audit period, there were eight recorded exceedances of the overpressure limit in this condition. It was stated that underground blasting does not cause overpressure at the surface, except in the unlikely event that there is a non-solid transmission pathway (e.g. a shaft) to the surface in the vicinity of the underground blast. During the audit period, only underground blasting was conducted at the Rasp Mine.	
L5.6 Conditions L5.1, L5.2, L5.3, L5.4 and L5.5 apply at any point within 1 metre of any noise sensitive location including residential premises, school, hospital or any blasting monitoring location specified in this licence.	Compliant	Relevant BHOP personnel were aware of and understood the requirements of this condition relating to noise sensitive locations.	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
L6 Hours of Operation			
<p>L6.1 Standard construction hours</p> <p>Unless otherwise specified by any other condition of this licence, all construction activities are:</p> <p>a) restricted to between the hours of 7:00am and 6:00pm Monday to Friday;</p> <p>b) restricted to between the hours of 8:00am and 1:00pm Saturday; and</p> <p>c) not to be undertaken on Sundays or Public Holidays.</p>	<p>Compliant Observation</p>	<p>As of March 2022, BHOP's most recent issued Construction Environment Management Plan (CEMP) was for the TSF2 embankments (TSF2 EMB), revision no. 6, dated 15 June 2020, Doc ID: BHO-PLN-ENV-012).</p> <p>Section 5.12 of the CEMP TSF2 EMB is consistent with the requirements of this condition, and states: "All works associated with these Project works will be undertaken in accordance with standard construction works [this "works" should be "hours"], and can only occur Monday to Friday from 07:00am to 6.00pm, Saturdays from 08:00am to 1.00pm, there will be no work on Sundays or public holidays."</p> <p>Observation No. 91 – BHOP could ensure that these construction hours are formally included in the general (employees and contractors) induction for Mod 6 works, to enable all construction personnel to be fully aware of these conditions.</p>	<p>Ob 91 – Induction or similar construction specific briefings will be reviewed to ensure they address construction hours.</p>
L7 Potentially Offensive Odour			
<p>L7.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.</p> <p>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.</p>	<p>Compliant</p>	<p>Refer to supporting evidence/comments for Project Approval Schedule 3, condition 1.</p>	

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L8 Other limit conditions			
L8.1 All storm water and other surface water holding ponds identified in the Site Water Management Plan must be designed, constructed and maintained to accommodate the stormwater runoff generated in a 100 year (24 hour) Average Recurrence Interval rain event.	<p>Non-compliant (low risk)</p> <p>Observation</p>	<p>Design rainfall data for 10 year ARI, 20 year ARI, 50 year ARI and 100 year ARI rainfall events is presented in Table 3 of BHOP’s Site Water Management Plan (SWMP), issued on 25 June 2019. The same design rainfall data was included in Table 2 of the previous Site Water Management Plan (Golder Associates, 30 April 2012).</p> <p>Section 3.3.4 in the SWMP states:</p> <p>“The surface water storage and drainage of the Mine is designed to manage runoff volumes generated from a 100 year ARI rainfall event.”</p> <p>The S44 water storage facility (northeast corner of rail loadout) and the S49 Ryan Street Dam (below the Block 10 lookout) are identified as monitored surface water storages in Table 9 of the SWMP. However, there is no indication in the SWMP of the design storage capacity of S44 and S49.</p> <p>Table 9 in the SWMP notes that the S49 Ryan Street Dam is:</p> <p>“Located on a non-active mining area of the site. As part of detailed design the option to discharge excess runoff to a local depression immediately to the North West of the storage would be investigated to limit the likelihood of excess flow down Adelaide Street.”</p> <p>Non-compliant (low risk) – During this March 2022 audit, BHOP was unable to provide evidence that all stormwater and other surface water holding ponds identified in the Site Water Management Plan (e.g. S44 and S49) have been designed, constructed and maintained to accommodate the stormwater runoff generated in a ‘100 year (24 hour) Average Recurrence Interval’ rain event, as defined in this condition.</p> <p>Observation No. 92 – BHOP could request Golder Associates to survey and confirm the capacity of all water storage facilities listed in Table 6 of the Site Water Management Plan, to verify that these facilities meet the required 1 in 100 year ARI design capacity. As of March 2022, information regarding design capacity is not consistently included in the Site Water Management Plan.</p>	<p>NC – To be investigated.</p> <p>Ob 92 – To be actioned.</p>

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>L8.2 The water storage ponds listed below must have the base and wall artificially lined with an impermeable high density polyethylene liner:</p> <ol style="list-style-type: none"> 1) "Mine Settlement Ponds" and "Backfill Plant Sediment Pond" identified in Figure 3 of the Rasp Mine Site Water Management Plan. 2) "Plant Event Pond" and the "Overflow Event Pond" identified in Figure 4 of the Rasp Mine Site Water Management Plan. 	Compliant	<p>BHOP's Mine Settlement Pond, Plant Event Pond and the Overflow Event Pond have the base and wall artificially lined with an impermeable high-density polyethylene (HDPE) liner.</p> <p>As of March 2022, the Backfill Plant Sediment pond referenced in the EPL does not yet exist (this pond has not yet been constructed).</p> <p>As noted in the 2019 audit report, BHOP commissioned Golder Associates to conduct a site process water ponds review in May 2018 inclusive of: a) Lochness Pond (i.e. the S22 Dam); b) S22A Pond; c) Patto's Pond; d) Main Process Pond; and e) Events Pond.</p> <p>All of these five water storage facilities have the base and wall artificially lined with an impermeable HDPE liner.</p>	
<p>L8.3 The licensee must ensure waste rock used for the construction of the amenity bund around the Concrete Batching Plant and other surface area works is tested in accordance with Appendix D of the Construction Environment Management Plan (BHO-PLN-ENV-011) dated December 2017 and ensure that waste rock used does not average a lead (Pb) fraction of more than 0.5%.</p>	Compliant	<p>The Auditors consider that this condition relates only to the construction of the amenity bund around the Concrete Batching Plant and other surface area works which were completed on 24 August 2018 (i.e. not the TSF2 embankments and spillway).</p> <p>In March 2017, Pacific Environment Ltd submitted a report titled "Rasp Mine – Waste Rock Classification Report".</p> <p>It was stated that BHOP's Waste Rock to Surface Testing Procedure (BHO-PRO-ENV-036) outlined the requirements for taking waste rock readings (as part of the construction of the Concrete Batching Plant) to ensure the installed waste rock contains <0.5% lead (Pb).</p> <p>This procedure defines the sampling and monitoring requirements (i.e. to determine average %Pb by XRF Method) for the individual dumped truck loads from the Waste Tipple in Kintore Pit and its hauling to the Concrete Batch Plant Area.</p> <p>All XRF data from the above sampling is retained in a spreadsheet</p> <p>Relevant requirements to control the risks of waste rock used for the construction of the amenity bund around the Concrete Batching Plant and other surface area works were included in the Construction Environment Management Plan – Concrete Batching Plant (revision no. 1, dated 6 December 2017, Doc ID: BHO-PLN-ENV-011).</p>	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>L8.4 During construction works the licensee must:</p> <ol style="list-style-type: none"> 1. Have a traffic light system for wind speeds; and 2. introduce additional dust mitigation measures when wind speeds are averaging greater than 40 kilometres per hour; and 3. when wind speeds exceed 50 kilometres per hour, any dust generating construction activities must cease. 	<p>Compliant</p>	<p>This condition applies to all construction works on the site.</p> <p>It was stated that the meteorological (weather) station (EPL monitoring point 55) is used to measure wind speed for decision making under this condition, because it provides the most reliable data.</p> <p>It was stated that on at least one occasion (see below) during the audit period, BHOP has modified and/or suspended operations during high wind speed conditions.</p> <p>The Auditors sighted an email dated 20 September 2019 (12:12pm), from BHOP’s Senior Environmental Advisor to BHOP’s Project Manager (TSF Construction) in response to an email query on that day (11:36am) from the Project Manager. The Senior Environmental Advisor’s email reads (in part):</p> <p style="padding-left: 40px;">“Conditions for the rest of the day appear to be poor and we may have to expect gusting winds so you should plan on standing down the equipment. ...</p> <p style="padding-left: 40px;">The last 50km/hr wind speed alert I got was at 11:37am and the one before that was at 11:26am.”</p> <p><u>CEMP – TSF2 Embankment</u></p> <p>Table 6-2, ID 4.3 in BHOP’s Construction Environment Management Plan (CEMP) – TSF2 Embankment (revision no. 6, dated 15 June 2020, Doc ID: BHO-PLN-ENV-012) refers to paragraph 1 of this condition:</p> <p style="padding-left: 40px;">“Daily morning pre-starts to include traffic light system for wind speeds, provided by BHOP, and required additional actions to minimise dust generation.”</p> <p>Table 6-2, ID 4.4 in the CEMP – TSF2 Embankment refers to paragraphs 2 and 3 of this condition:</p> <p style="padding-left: 40px;">“Additional dust mitigation measures must be introduced when winds are >40 kph, and dust generating work ceases when winds exceed 50 kph (unless dust can be prevented/controlled).”</p> <p>It was stated that BHOP’s dust mitigation practices during construction include:</p>	

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		<ul style="list-style-type: none"> actual or potentially adverse weather conditions are communicated to employees during pre-start meetings; a water truck is deployed if wind speed exceeds 40 km/h; the Project Manager receives an email/SMS for the weather station and the PM₁₀ anemometers (35km is the trigger level for notification); and construction works would cease if wind speed exceeds 50km/h. 	
4 Operating Conditions			
O1 Activities must be carried out in a competent manner			
<p>O1.1 Licensed activities must be carried out in a competent manner.</p> <p>This includes:</p> <p>a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and</p> <p>b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.</p>	Compliant Observation	<p>Generally, during this March 2022 audit, licensed activities were observed to be carried out in a competent manner, inclusive of relevant operating, maintenance and monitoring related activities defined in the EPL.</p> <p>Generally, the non-compliances identified in this audit report were not raised on account of BHOP employees or contractors not being suitably trained and competent to conduct work in their area of responsibility.</p> <p><u>Training</u></p> <p>BHOP's training programs are centralised (i.e. role specific, not department specific) and are the responsibility of BHOP's Training Coordinator (INX InTuition). BHOP maintains a training matrix for each employee, defining the required and completed inductions, training modules, training records/certificates etc. As of March 2022, the frequency of reinduction is once every five years.</p> <p>The Auditors sighted sample INX InTuition records for BHOP's Senior Environmental Advisor and a Mill Operator – Crew 2.</p> <p><u>Ore transport</u></p> <p>Pacific National is the rail transport operator from Broken Hill to Port Pirie and Newcastle. BHOP owns zinc concentrate containers (approximately 100) and hires lead concentrate containers (approximately 80) from Aurizon. Newcastle Port is now owned by Aurizon (sold by CBH to Aurizon during the audit period).</p>	Ob 93 – To be actioned.

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>It was stated that as of March 2022, approximately 32-34 containers of zinc concentrate are transported via rail from site per week, and approximately 24 containers of lead concentrate are transported via rail from site around 3 times per month.</p> <p>Observation No. 93 – For the purpose of identifying environment risk associated with potential concentrate spillage during off-site transportation, BHOP could verify/continue to monitor the exact location when BHOP ceases to have responsibility for concentrate which is transported off-site (i.e. potentially referencing this in the conditions of carriage or customer contracts).</p>	
O2 Maintenance of plant and equipment			
<p>O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:</p> <ul style="list-style-type: none"> a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner. 	<p>Non-compliant (low risk)</p> <p>Observation</p>	<p>Refer to supporting evidence/comments for Project Approval Schedule 2, condition 10.</p> <p>Non-compliant (low risk) – On infrequent occasions during the audit period, plant and equipment used on site was not maintained or operated in accordance with paragraphs a) and b) of this condition, including:</p> <ul style="list-style-type: none"> a) Torn filter bags in the Crusher Baghouse had not been detected prior to scheduled point source air emissions testing by Assured Environmental on 9 December 2020 (refer to section 8 in the 2020 AEMR and section 10 of the 2020-2021 Annual Review). b) Failure to monitor a blast at V2 Hire Yard on 19 April 2019 due to operator error in initiating the recording function on the spare blast monitor (refer to section 8 in the 2019 AEMR and section 10 of the 2019-2020 Annual Review). <p>Observation No. 94 – Training sessions in key environmental obligations under the EPL (and Project Approval and CML7) may be beneficial for key BHOP operational personnel (e.g. Control Room operators) to ensure that these personnel understand the environmental obligations applicable to the operation (i.e. to facilitate correct decision making).</p>	<p>NC – Both incidents were self-reported to the EPA and DPE. Incident investigations conducted and corrective actions implemented to prevent recurrence.</p> <p>Ob 94 – To be considered.</p>

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
O3 Dust			
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.	Compliant	Refer to supporting evidence/comments for Project Approval Schedule 3, condition 5.	
O3.2 Ore trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.	Compliant	This condition will only apply in an emergency situation and with the prior written approval of the Secretary of the DPE, as defined in Project Approval Schedule 2, condition 7. It was stated that during the audit period, no load-carrying ore trucks entered or left the site.	
O3.3 Visible dust emissions from any tailings storage facility must be immediately suppressed by water or chemical application.	Non-compliant (low risk) 2 Observations	<u>TSF2 dust emissions</u> It was stated that the surface of the tailings deposited in TSF2 is not a source of fugitive dust, mainly due to the presence of sulfates in the water after evaporation, forming a surface crust. It was stated that chemical dust suppressant has been used in the two years prior to March 2022 on non-trafficable areas of TSF2, and that a water truck is available for use as required. It was noted that as of March 2022, a dust suppression sprinkler system had not been installed at TSF2. It is acknowledged that the installation and operation of a water spray system is imminent, and two cameras to monitor the surface of TSF2 have been installed. Non-compliant (low risk) – As of March 2022, BHOP is unable to ‘immediately’ suppress dust from TSF2, as a water spray system or an alternative ‘immediate’ dust control measure has not been installed. It was stated that the intended TSF2 water spray system will be linked to the PM ₁₀ monitors and/or the weather station. Activation of the TSF2 water spray system is expected to be triggered by either of the two existing PM ₁₀ monitors or the on-site weather station (i.e. if required).	NC – TSF2 sprinkler system currently under construction. Expected completion mid-2022. Ob 95 – To be investigated. Ob 96 – To be actioned.

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>During this March 2022 audit, the Auditors observed two cameras in operation at TSF2, via real-time images displayed on a computer monitor in the BHOP Environment Office. It was stated that these cameras were installed in 2019 (after the February 2019 audit), and record images for up to 48 hours.</p> <p>It was stated that the EPA will not be given real-time access, but will have access to the recorded video on request.</p> <p><u>Tailings management</u></p> <p>In recent years, BHOP has improved recovery of the underground resource and grade to enable the projected mine life to be extended.</p> <p>Construction of the TSF2 embankment lifts and spillway was completed on 8 July 2021.</p> <p>As of March 2022 (i.e. following completion of construction), TSF2 is a gazetted prescribed dam.</p> <p>It was stated that BHOP intends to commence tailings discharge into Kintore Pit in late 2022. The new underground portal is expected to be located opposite the ROM pad in the future.</p> <p>It was stated that harvested tailings (i.e. dried tailings) are being considered for trucking and disposal into Kintore Pit.</p> <p><u>TSF2 Operating Manual</u></p> <p>Section 10 (Monitoring, Documentation and Surveillance) in BHOP's current TSF2 "Operation, Maintenance and Surveillance Manual" (Doc ID: BHO-MAN-MET-029, Golder Associates, V1, issued on 15 June 2020) includes the requirements for daily inspections (section 10.1.1) inclusive of inspection of a dust suppression sprinkler system (not installed as of March 2022).</p> <p>Section 7.1.6 (Dust Management) in the Manual states that: "The dust suppression system shall be operated during daylight hours only and must be monitored at least hourly when in operation."</p>	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Observation No. 95 – BHOP could review section 7.1.6 in the TSF2 Operation, Maintenance and Surveillance Manual (15 June 2020) to ensure that the expressed commitments (e.g. at least hourly monitoring during dust suppression system operation) are feasible and achievable in daily operations.</p> <p><u>Daily inspections inclusive of TSF2</u></p> <p>It was stated that daily inspections inclusive of TSF2 are completed by BHOP’s plant operators. The Auditors sighted a sample Daily Inspection Checklist (Doc ID: BHO-CKL-MET-022, issued on 25 January 2020) for an inspection completed on 5 January 2021. There was no line item or specific comment in the sample checklist regarding whether or not visible dust was being emitted from the surface of TSF2.</p> <p>Observation No. 96 – The Daily Inspection Checklist (Doc ID: BHO-CKL-MET-022, issued on 25 January 2020) could be revised and updated to include a line item for completion by the BHOP employee, to confirm whether or not visible dust was being emitted from the surface of TSF2 at the time of inspection of TSF2.</p>	
O3.4 Crushing of extracted material must only occur inside the crusher enclosure.	<p>Non-compliant (low risk)</p> <p>Observation</p>	<p>This condition refers to “extracted material”, whereas Project Approval Schedule 3, condition 7 refers to “ore”.</p> <p>It was stated that a mobile crusher was used during the audit period (2019 to 2021) in the BHP Pit, for the TSF2 embankment works. Mod 7 of July 2019 enabled BHOP to use rock fill material from the BHP Pit for the TSF embankment works (refer to Project Approval Schedule 3, condition 17A(e)).</p> <p>As of March 2022, a mobile crusher remains on site.</p> <p>Non-compliant (low risk) – The use of a mobile crusher (as occurred during the audit period) is not authorised under the EPL. The EPL defines that the crushing of “extracted material” (inclusive of rock fill material from underground) must only occur inside the existing crusher enclosure.</p>	<p>NC – Request for EPL to be updated in accordance with the Project Approval.</p> <p>Ob 97 – Update to EPL to be made, secure written approval if required prior.</p>

Environment Protection Licence Number 12559 as at 4 October 2019			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		Observation No. 97 – In the event that a mobile crusher is required to be used for the Mod 6 works, BHOP could consider either: a) applying to vary this EPL condition; or b) securing formal written approval from the EPA to use a mobile crusher for the Mod 6 works.	
O3.5 The crusher enclosure must be designed to operate under negative pressure at all times.	Compliant	Refer to supporting evidence/comments for Project Approval Schedule 3, condition 7. It was stated that the ore crusher in the crusher enclosure is unable to be operated in the absence of the ventilation system and baghouse being operational (i.e. as a result of the presence of multiple interlocks).	
O3.6 The crusher enclosure and associated emission controls must be constructed and operated in such a manner, as to ensure visible fugitive emissions from the enclosure are minimised.	Compliant	Refer to supporting evidence/comments for Project Approval Schedule 3, condition 7.	
O3.7 The Air Quality Management Plan must include dust mangment practices that effectively minimise dust emissions at all times, including all mitigation measures discussed in the Environmental Assessment titled "RASP Mine Zinc-Lead-Silver Project Environmental Assessment Report, July 2010" and additional measures proposed in the document titled "RASP Mine Zinc-Lead-Silver Project Preferred Project Report September 2010". <i>[Auditor's Note: Errors in spelling of "management" and "preferred".]</i>	Compliant	Refer to supporting evidence/comments for Project Approval Schedule 3, condition 11. Auditor's Note – This condition refers to documents which may have been superseded by more recent documents.	
O4 Processes and management			
O4.1 All surface water storage ponds must be maintained to ensure that sedimentation does not reduce their capacity by more than 10% of the design capacity.	Non-compliant (low risk) 2 Observations	It was stated that water storage facilities required for processing is managed by BHOP's Processing Department. The remainder of the water storage facilities, primarily stormwater retention storages, are the responsibility of BHOP's Senior Environmental Advisor.	NC – Inspection regime to be developed and entered into INX. Ob 98 – To be actioned.

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Periodic inspections of stormwater retention storages are conducted on an ad hoc basis.</p> <p>In 2019, it was stated that BHOP commenced utilising drones to survey existing stormwater retention storages.</p> <p>As of March 2022, it is intended that sediment markers will be installed within these storages to define the zero level (i.e. when empty of settled sediment) of these storages.</p> <p>As of March 2022, no formal process or procedure currently exists to ensure that sedimentation does not reduce the capacity of these storage facilities by more than 10% of the design capacity.</p> <p>It was stated that settled sediment was removed from S14 and Horwood Dam in 2020. This material was deposited into TSF2.</p> <p>Non-compliant (low risk) – As of March 2022, BHOP does not have a documented inspection, surveying or preventative maintenance schedule (e.g. in Pronto) to ensure that sedimentation does not reduce the capacity of surface water storage ponds by more than 10% of their design capacity.</p> <p>Observation No. 98 – BHOP could consider developing and implementing an annual pre-summer inspection checklist and clean-up to ensure that all stormwater drainage channels, sediment control facilities etc. are fully functional prior to forecasted major rain events. The demonstrated completion of a formal inspection with the use of a checklist and preventative maintenance schedule would be beneficial if a major rain event resulted in the overtopping and release from any on-site water storages.</p> <p>Observation No. 99 – BHOP is encouraged to survey all on-site stormwater retention storages to determine the actual storage volumes of each facility. Information determined by Golder Associates within the Site Water Management Plan dated 30 April 2012 and referred to in the BHOP Site Water Management Plan issued on 25 June 2019, is limited to the area of each water storage facility (i.e. in m²) and the runoff volumes within each catchment, not the actual available storage volume (i.e. in m³) within each facility.</p>	Ob 99 – To be investigated.

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
5 Monitoring and Recording Conditions			
M1 Monitoring records			
M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Compliant 2 Observations	<p>Refer to supporting evidence/comments for EPL conditions M1.2 and M1.3.</p> <p>During the audit period, the majority of environmental monitoring records retained by BHOP are retained within MS Excel spreadsheets.</p> <p>Time series data (TM and weather data) are supplied monthly from external service providers in real time.</p> <p>External laboratory reports are provided to BHOP from external service provider ALS in PDF format. The results are then manually transcribed into Excel spreadsheets in preparation for inclusion in monthly Environment Monitoring Reports.</p> <p>Observation No. 100 – BHOP could confer with ALS to obtain laboratory report data in CSV or another data format which would enable uploading/converting into Excel via a suitable third party software platform to be purchased by BHOP.</p> <p>Field sheets utilised by BHOP environmental personnel are held in hard copy and these are scanned and held in electronic format.</p> <p>Observation No. 101 – BHOP could consider loading field data into a tablet (using INX InForm) instead of hard copy, to reduce the risk of loss of data on hard copy field sheets.</p>	<p>Ob 100 – To be investigated.</p> <p>Ob 101 – To be investigated.</p>
M1.2 All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.	Compliant 2 Observations	<p>As of March 2022, no documented CBH/BHOP internal standard exists regarding the storage of environmental records and data.</p> <p>Environmental monitoring data is being stored, maintained and interpreted utilising Excel spreadsheets. This remains a high risk to BHOP (i.e. from a compliance/reporting perspective) and is unlikely to be effective and sustainable in the future.</p>	<p>Ob 102 – To be actioned.</p> <p>Ob 103 – To be actioned.</p>

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>It was stated that some historical meteorological data was not retained for the period from 2012 to 2017 (i.e. this data is not readily retrievable).</p> <p>As of March 2022, ALS laboratory data is being manually transcribed from hard copy PDFs into relevant Excel spreadsheets. The Auditors consider this practice to be an inefficient and time-consuming for BHOP environmental personnel on site (i.e. in the Auditors' experience, the majority of resource operations receive this data as electronic CSV files for electronic uploading into an on-site database).</p> <p>Observation No. 102 – As of March 2022, no compliance database (or equivalent) is being utilised to enable BHOP to be proactively and consistently notified of required statutory renewals, reporting obligations, fee payments and other relevant compliance obligations.</p> <p>Observation No. 103 – BHOP is encouraged to purchase a formal environmental database and discontinue the use of multiple spreadsheets for the retention of environmental monitoring data and records. Once purchased, BHOP could request ALS to submit this data as electronic CSV files for uploading into the database.</p>	
<p>M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:</p> <p>a) the date(s) on which the sample was taken;</p> <p>b) the time(s) at which the sample was collected;</p> <p>c) the point at which the sample was taken; and</p> <p>d) the name of the person who collected the sample.</p>	Compliant	<p>The Auditors sighted the following examples of completed field sheets, which included the details required by this condition.</p> <ul style="list-style-type: none"> HVAS Monitoring Form (BHO-PRO-ENV-002) for 17 November 2021, 23 November 2021, 29 November 2021, 9 December 2021 and 13 December 2021; Depositional Dust Monitor Log Form (BHO-FRM-ENV-006) for 3 September 2021, 7 October 2021, 5 November 2021 and 9 December 2021. <p>Most field sheets are utilised in hard copy. Once completed, these are scanned as required and stamped as being electronically scanned by BHOP's environmental personnel.</p>	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
M2 Requirement to monitor concentration of pollutants discharged			
M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:	<p>Non-compliant (low risk)</p> <p>Observation</p>	<p>On infrequent occasions during the audit period, BHOP did not monitor at the required frequency due to equipment failures at some of the monitoring points identified in the tables within conditions M2.2 and M2.3. These equipment failures included:</p> <ul style="list-style-type: none"> V2 Hire Yard blast monitor malfunction on 19 April 2019 – INX no. 4701; Dust deposition gauge 1 (EPL ID 3) stolen/missing, detected on 1 October 2019 – INX no. 5238; Silver Tank HVAS units (EPL IDs 10 and 11) software failure on 2 January 2020 – INX no. 5456; TEOM1 (EPL ID 13) power outage on 13 January 2022 – INX no. 7590; Dust deposition gauge 2 (EPL ID 4) cracked, detected in February 2022 – INX no. 7682; TEOM2 (EPL ID 14) loss of power from 25 – 28 February 2022 due to electrical storm on 25 February 2022 – INX no. 7861. <p>Non-compliant (low risk) – On infrequent occasions during the audit period, BHOP did not monitor at the frequency as required by the relevant tables within this condition.</p> <p>Section 1.6 of BHOP’s Site Water Management Plan (issued on 25 June 2019) refers to use of a Site Water Monitoring Procedure (BHO-ENV-PRO-011).</p> <p>In relation to groundwater sampling, it was stated that BHOP uses manual disposable hand bailers to partially purge groundwater bores (i.e. prior to sampling) and for the collection of groundwater samples for external laboratory analysis.</p> <p>Observation No. 104 – BHOP’s Site Water Monitoring Procedure (BHO-ENV-PRO-011) should be reviewed and updated with suitable document control applied.</p>	<p>NC – Incidents reported and investigated separately with corrective actions developed to prevent recurrence.</p> <p>Ob 104 – To be actioned.</p>

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		<p>BHOP's Environment Department retains copies of relevant Australian Standards for required environmental monitoring that is conducted by BHOP's environmental personnel.</p> <p>An extensive number of Australian Standards are available on BHOP's intranet.</p>																																																																																																									
<p>M2.2 Water and/ or Land Monitoring Requirements</p> <p>POINT 29,31,32,33,34,35,36</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Units of measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr><td>Cadmium</td><td>milligrams per litre</td><td>Special Frequency 2</td><td>Representative sample</td></tr> <tr><td>Chloride</td><td>milligrams per litre</td><td>Special Frequency 2</td><td>Representative sample</td></tr> <tr><td>Electrical conductivity</td><td>microsiemens per centimetre</td><td>Special Frequency 2</td><td>Representative sample</td></tr> <tr><td>Lead</td><td>milligrams per litre</td><td>Special Frequency 2</td><td>Representative sample</td></tr> <tr><td>Manganese</td><td>milligrams per litre</td><td>Special Frequency 2</td><td>Representative sample</td></tr> <tr><td>pH</td><td>pH</td><td>Special Frequency 2</td><td>In situ</td></tr> <tr><td>Sodium</td><td>milligrams per litre</td><td>Special Frequency 2</td><td>Representative sample</td></tr> <tr><td>Sulfate</td><td>milligrams per litre</td><td>Special Frequency 2</td><td>Representative sample</td></tr> <tr><td>Total dissolved solids</td><td>milligrams per litre</td><td>Special Frequency 2</td><td>Representative sample</td></tr> <tr><td>Zinc</td><td>milligrams per litre</td><td>Special Frequency 2</td><td>Representative sample</td></tr> </tbody> </table> <p>POINT 37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Units of measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr><td>Alkalinity (as calcium carbonate)</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>Cadmium</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>Calcium</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>Chloride</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>Electrical conductivity</td><td>microsiemens per centimetre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>Iron</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>Lead</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>Magnesium</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>Manganese</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>pH</td><td>pH</td><td>Quarterly</td><td>In situ</td></tr> <tr><td>Sodium</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>Sulfate</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>Total dissolved solids</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> <tr><td>Zinc</td><td>milligrams per litre</td><td>Quarterly</td><td>Representative sample</td></tr> </tbody> </table>	Pollutant	Units of measure	Frequency	Sampling Method	Cadmium	milligrams per litre	Special Frequency 2	Representative sample	Chloride	milligrams per litre	Special Frequency 2	Representative sample	Electrical conductivity	microsiemens per centimetre	Special Frequency 2	Representative sample	Lead	milligrams per litre	Special Frequency 2	Representative sample	Manganese	milligrams per litre	Special Frequency 2	Representative sample	pH	pH	Special Frequency 2	In situ	Sodium	milligrams per litre	Special Frequency 2	Representative sample	Sulfate	milligrams per litre	Special Frequency 2	Representative sample	Total dissolved solids	milligrams per litre	Special Frequency 2	Representative sample	Zinc	milligrams per litre	Special Frequency 2	Representative sample	Pollutant	Units of measure	Frequency	Sampling Method	Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Representative sample	Cadmium	milligrams per litre	Quarterly	Representative sample	Calcium	milligrams per litre	Quarterly	Representative sample	Chloride	milligrams per litre	Quarterly	Representative sample	Electrical conductivity	microsiemens per centimetre	Quarterly	Representative sample	Iron	milligrams per litre	Quarterly	Representative sample	Lead	milligrams per litre	Quarterly	Representative sample	Magnesium	milligrams per litre	Quarterly	Representative sample	Manganese	milligrams per litre	Quarterly	Representative sample	pH	pH	Quarterly	In situ	Sodium	milligrams per litre	Quarterly	Representative sample	Sulfate	milligrams per litre	Quarterly	Representative sample	Total dissolved solids	milligrams per litre	Quarterly	Representative sample	Zinc	milligrams per litre	Quarterly	Representative sample	<p>Non-compliant (low risk)</p> <p>Observation</p>	<p>During the audit period, subject to the exceptions below, BHOP collected water samples: a) for the pollutants; b) at the required units of measurement; c) at the defined frequencies; and d) using the sampling methods, defined in the tables of this condition.</p> <p><u>Surface Water Monitoring – EPL Monitoring Points 29, 31, 32, 33, 34, 35, 36</u></p> <p>BHOP's 2019 Annual Return Environmental Monitoring Report (reporting period 2 November 2018 to 1 November 2019) noted that surface water monitoring at the EPL monitoring points occurred only in March 2019 (at other times there was insufficient rainfall).</p> <p>BHOP's 2020 Annual Return Environmental Monitoring Report (reporting period 2 November 2019 to 1 November 2020) noted that surface water monitoring at the EPL monitoring points occurred only in October 2020 (at other times there was insufficient rainfall).</p> <p>BHOP's 2021 Annual Return Environmental Monitoring Report (reporting period 2 November 2020 to 1 November 2021) noted that surface water monitoring at the EPL monitoring points occurred only in January 2021 (at other times there was insufficient rainfall).</p> <p>The Auditors consider the non-collection of samples where there is no surface water to be collected, is not a non-compliance against this condition.</p> <p><u>Groundwater Monitoring – EPL Monitoring Points 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52</u></p> <p>During the audit period, some of the 16 groundwater samples at the relevant monitoring points defined in the EPL were unable to be collected as the designated groundwater monitoring bore was dry.</p>	<p>NC – To be actioned.</p> <p>Ob 105 – To be investigated.</p>
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M2.3 Air Monitoring Requirements	Compliant	<p>During the audit period, subject to the exceptions below, BHOP collected air emission samples: a) for the pollutants; b) at the required units of measurement; c) at the defined frequencies; and d) using the sampling methods, defined in the tables of this condition.</p> <p>BHOP’s 2019, 2020 and 2021 Annual Return Environmental Monitoring Reports for the respective reporting periods (2 November to 1 November of the next year) indicate no failures to collect air emissions samples other than: a) on infrequent occasions which were outside of BHOP’s control; and b) while construction of the TSF2 Embankment 2 (under Mod 4) was taking place.</p>																																																													

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		<p><u>Air Quality Monitoring (PM₁₀) – EPL Monitoring Points 13, 14</u></p> <p>As noted in the supporting evidence/comments for EPL condition M2.1, the TEOM1 (EPL13) power outage of 13 January 2022 was outside of BHOP's control. The Auditors consider this is not a non-compliance against this condition.</p> <p>As noted in the supporting evidence/comments for EPL condition M2.1, the TEOM2 (EPL14) loss of power from 25 – 28 February 2022 was outside of BHOP's control. The Auditors consider this is not a non-compliance against this condition.</p>	
M2.4 For the purposes of the table(s) above Special Frequency 2 means the collection of two samples a year six months apart.	Note	Relevant BHOP personnel were aware of and understood the meaning of Special Frequency 2.	
M3 Testing methods – concentration limits			
<p>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:</p> <p>a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or</p> <p>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</p> <p>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.</p> <p>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</p>	Compliant Observation	<p><u>Point Source Air Emissions Testing</u></p> <p>External air quality monitoring service provider Assured Environmental (NATA Accreditation No. 19703) conducts on-site monitoring of air pollutants listed in relevant EPL conditions.</p> <p>Assured Environmental utilises Envirolab Services (NATA Accreditation No. 2901) for the off-site testing of relevant pollutants (i.e. TVOCs and Type 1 and 2 Hazardous Substances) listed in relevant EPL conditions.</p> <p><u>Ambient Dust Monitoring</u></p> <p>BHOP utilises external commercial laboratory, Australian Laboratory Services (ALS) in Newcastle (NATA Accreditation No. 15784) for relevant dust analysis for samples collected for:</p> <ul style="list-style-type: none"> total suspended particulates (TSP); particulate matter less than 10 microns (PM₁₀); and lead dust. 	Ob 106 – To be confirmed.

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
"Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".		Observation No. 106 – BHOP could confirm and secure evidence from the ALS/ACTest Newcastle Coal Testing Laboratory that: a) TSP; b) PM ₁₀ ; and c) lead dust, is included within this laboratory's current scope of NATA Accreditation.	
M3.2 Analysis of heavy metals in air samples required by this licence must be done in accordance with: (a) APHA 3030 for the preparation of the sample; and (b) APHA 3111B for the measurement of lead.	Not verified Observation	Submitted quarterly Source Emission Monitoring Reports from Assured Environmental state that Type 1 and 2 hazardous substances (heavy metals) are analysed using NSW Method IDs M-12, 13 & 14. External commercial laboratory, Envirolab Services (NATA Accreditation No. 2901 for these tests) is utilised for the analysis of heavy metals in air (point source emissions) samples. Submitted laboratory reports define that metals in emissions are analysed utilising USEPA Method m29, with the exception of Sn and V which are not covered under USEPA m29 accreditation, but are analysed under in-house methods. Not verified – Neither the quarterly Assured Environmental test reports or associated Envirolab Services laboratory reports make reference to APHA 3030 for the preparation of the sample or APHA 3111B for the measurement of lead. Observation No. 107 – BHOP could request the EPA to vary this condition to refer to equivalent USEPA methods, as APHA methods are not being used by service provider, Envirolab Services (i.e. Envirolab Services defines in its laboratory reports that USEPA methods are being utilised for the analysis of heavy metals in air samples).	NV – To be confirmed. Ob 107 – To be investigated.
M3.3 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.	Compliant	During the audit period, no requests were made by BHOP to the EPA for alternate monitoring methods to be used. It was noted that this condition's reference to 'monitoring' includes both 'sampling and obtaining results by analysis' as referred to in EPL condition M2.1. BHOP engages ALS in Sydney (a NATA accredited laboratory) to conduct analyses and reporting of submitted water samples.	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response																														
		As of March 2022, ALS uses both USEPA and APHA Standard Methods for the laboratory analysis of submitted water samples, which is completed in accordance with and exceeds the analysis requirements specified in the NSW EPA’s ‘Approved Methods for the Sampling and Analysis of Water Pollutants in New South Wales’ (March 2004).																															
M4 Weather monitoring																																	
<p>M4.1 At the point(s) identified below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1 of the table below, using the corresponding sampling method, units of measure, averaging period and sampling frequency, specified opposite in the Columns 2, 3, 4 and 5 respectively.</p> <p>POINT 55</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Sampling method</th> <th>Units of measure</th> <th>Averaging period</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Temperature at 10 metres</td> <td>AM-4</td> <td>degrees Celsius</td> <td>15 minutes</td> <td>Continuous</td> </tr> <tr> <td>Wind Direction at 10 metres</td> <td>AM-4</td> <td>Degrees in a clockwise direction from True North</td> <td>15 minutes</td> <td>Continuous</td> </tr> <tr> <td>Wind Speed at 10 metres</td> <td>AM-4</td> <td>metres per second</td> <td>15 minutes</td> <td>Continuous</td> </tr> <tr> <td>Rainfall</td> <td>AM-4</td> <td>millimetres</td> <td>1 hour</td> <td>Continuous</td> </tr> <tr> <td>Sigma Theta</td> <td>AM-2 & AM-4</td> <td>Degrees</td> <td>15 minutes</td> <td>Continuous</td> </tr> </tbody> </table>	Parameter	Sampling method	Units of measure	Averaging period	Frequency	Temperature at 10 metres	AM-4	degrees Celsius	15 minutes	Continuous	Wind Direction at 10 metres	AM-4	Degrees in a clockwise direction from True North	15 minutes	Continuous	Wind Speed at 10 metres	AM-4	metres per second	15 minutes	Continuous	Rainfall	AM-4	millimetres	1 hour	Continuous	Sigma Theta	AM-2 & AM-4	Degrees	15 minutes	Continuous	<p>Compliant Observation</p>	<p>On 15 January 2019, BHOP replaced its previous on-site meteorological station with the current on-site meteorological station to enable the reliable and effective monitoring of all parameters identified in this condition.</p> <p>The current meteorological station now enables BHOP to calculate Sigma Theta at 15-minute averaging periods.</p> <p>The Auditors viewed BHOP’s Monthly Environment Monitoring Report for June 2021 as an example for assessment of compliance with this condition. The “Weather Data Summary for June 2021” table and the “Wind Rose” within this report include the content required by this condition.</p> <p>Observation No. 108 – In BHOP’s Monthly Environment Monitoring Report for June 2021 (viewed as an example during this March 2022 audit), the “Weather Data Summary for June 2021” table incorrectly refers to dates in June 2018.</p>	<p>Ob 108 – To be updated.</p>
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M5 Recording of pollution complaints																																	
<p>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.</p>	<p>Compliant</p>	<p>External complaints are either received directly by BHOP from a complainant or indirectly through the EPA. It was stated that all external complaints received are uploaded and managed through BHOP’s INX InControl corrective action database. Access to the database is limited to authorised BHOP personnel.</p>																															

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>BHOP maintains a formal Environmental Issue Complaints Procedure BHO-PRO-ENV-029 (issue date not defined) which references (in section 9) the required use of INX InControl for the formal entry, tracking and close-out of external complaints. Records of received complaints and the corrective actions completed by BHOP to address these complaints are retained in INX InControl.</p> <p>In addition, BHOP's Register of Complaints lists the external complaints received by BHOP, and is uploaded to the CBH website.</p>	
<p>M5.2 The record must include details of the following:</p> <ol style="list-style-type: none"> the date and time of the complaint; the method by which the complaint was made; any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; the nature of the complaint; the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and if no action was taken by the licensee, the reasons why no action was taken. 	Compliant Observation	<p>During this March 2022 audit, there was evidence that BHOP was recording complaints in accordance with the requirements in paragraphs a) to e) of this condition.</p> <p>According to BHOP's INX InControl records, BHOP received 23 external complaints in 2019, 8 external complaints in 2020, and 4 external complaints in 2021.</p> <p>It was noted that personal details of the complainant are currently recorded in the INX InControl 'description' field.</p> <p>Observation No. 109 – BHOP could consider modifying INX InControl to create separate fields for recording:</p> <ul style="list-style-type: none"> any personal details of the complainant or a note that no personal details were provided (paragraph c)); and information stating that if no action was taken by the licensee, the reasons why no action was taken (paragraph f)). 	Ob 109 – To be investigated.
M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.	Compliant	<p>There was evidence that BHOP has retained some records of external complaints received since August 2012. The Auditors sighted a complaint in INX InControl dated 21 August 2012 (Ref No. 250), and sighted two INX InControl records from 2017. There was a gap in INX InControl records from 9 August 2012 to July 2015 and throughout 2016 and 2017.</p>	
M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.	Compliant	<p>It was stated that external complaints received are available in BHOP's INX InControl database to any authorised officer of the EPA who requests to view them.</p>	

Environment Protection Licence Number 12559 as at 4 October 2019			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
M6 Telephone complaints line			
M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	Compliant Observation	BHOP Rasp Mine displays its main phone number and the dedicated complaints number at the front gate of the BHOP Offices in Eyre Street. At the time of writing this March 2022 audit report, the 'Complaints Register' webpage on the CBH website includes the following text: Rasp Mine Hotline – 08 8088 1211 (please leave message if not attended) Observation No. 110 – BHOP should reconsider the current practice (adopted in 2018) of locating the dedicated phone for the receipt of community complaints on the Senior Environmental Advisor's desk, which is unmanned at night and over the weekend (i.e. the phone is answered by an answering machine). This practice could potentially increase caller frustration, and result in an increased number of complaints made directly to the EPA or media.	Ob 110 – To be considered.
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.	Compliant Observation	Refer to supporting evidence/comments for EPL condition M6.1. Observation No. 111 – BHOP is encouraged to define in INX InControl if an external complaint was received directly by BHOP or indirectly via the EPA.	Ob 111 – To be actioned.
M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.	Note	This condition relates to the original EPL, which according to the EPA website was issued on 2 November 2006.	
M7 Blasting			
M7.1 To determine compliance with conditions L5.1, L5.2, L5.3, L5.4 and L5.4: (a) Airblast overpressure and ground vibration levels must be measured and electronically recorded for all blasts carried out in or on the premise at the following locations;	Non-compliant (low risk)	Refer to supporting evidence/comments for Project Approval Schedule 3, condition 18.	NC – The incident was self-reported to the EPA and DPE at the time and corrective actions have been implemented at the time of the incident to mitigate the risk of recurrence.

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>The blast monitor labelled "V1" in Figure 1 titled "Blast Monitoring Locations" of Broken Hill Operations Pty Ltd - Rasp Mine - "Blasting Monitoring Program Management Plan" received by the EPA 29 June 2015 DOC15/238188.</p> <p>The blast monitor labelled "V2" in Figure 1 titled "Blast Monitoring Locations" of Broken Hill Operations Pty Ltd - Rasp Mine - "Blasting Monitoring Program Management Plan" received by the EPA 29 June 2015 DOC15/238188.</p> <p>The blast monitor labelled "V3" in Figure 1 titled "Blast Monitoring Locations" of Broken Hill Operations Pty Ltd - Rasp Mine - "Blasting Monitoring Program Management Plan" received by the EPA 29 June 2015 DOC15/238188.</p> <p>The blast monitor labelled "V4 New location" in Attachment B of the document titled "Report to support EPL 12559 variation" dated August 2018 and kept on EPA file DOC18/228266-03.</p> <p>The blast monitor labelled "V5" in Figure 1 titled "Blast Monitoring Locations" of Broken Hill Operations Pty Ltd - Rasp Mine - "Blasting Monitoring Program Management Plan" received by the EPA 29 June 2015 DOC15/238188.</p> <p>The specific monitoring locations are subject to the actual blasting locations as described in Table 4 - "Airblast Overpressure and Ground Vibration Monitoring Locations" of Broken Hill Operations Pty Ltd - Rasp Mine - "Blasting Monitoring Program Management Plan" received by the EPA 29 June 2015 DOC15/238188; and</p>		<p>As of March 2022, BHOP maintains nine regulatory-compliance blast monitors, inclusive of six PA/EPL compliance monitors and three 'Dams Safety NSW' required monitors on the TSF2 embankments (one of which was installed in 2020 and the other two in 2021). BHOP maintains an additional three roving blast monitors. These monitors are listed in BHOP's Register of Blast Monitors (Excel spreadsheet), including calibration dates (calibration by Saros in Brisbane). It was stated that two new blast monitors are on site as of March 2022, but have not been installed, pending Mod 6 approval.</p>  <p>Photo 25 – Micromate roving blast monitor serial number UM19095 (9 March 2022)</p> <p>Blast monitors are connected via 3G (i.e. via geophone) to enable the data to be uploaded to the Saros InstanTel server (i.e. after the blast event or alternatively up to four times a day).</p> <p>Blast reports can be generated as needed and are also accessible on-line approximately 45 minutes after a blast has occurred.</p> <p>It was stated that there have been some cases where the blast monitor has failed to collect data immediately prior to and during a blast. It was stated that there is no alert capability for the existing blast monitors to communicate that a monitor is not operational.</p>	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>(b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standards AS 2187.2-2006.</p> <p><i>[Auditor's Note: The second reference to clause 5.4 in the second line of this condition should instead refer to clause 5.5.]</i></p>		<p>It was stated that BHOP Technical Services personnel have responsibility for checking the functionality of the blast monitors prior to BHOP conducting a blast.</p> <p>With one exception described in the non-compliance below, all blasts during the audit period were measured and electronically recorded at the PA/EPL monitoring locations described in this condition.</p> <p>It was noted that monitoring location V6 is not listed in this condition, but exists as a monitoring location in Figures 1a and 1b within BHOP's Blasting Monitoring Program Management Plan (Doc ID: BHO-PLN-ENV-006, revision no. 3, issued on 4 November 2016).</p> <p>Non-compliant (low risk) – On 19 April 2019, BHOP failed to monitor a blast at V2 Hire Yard due to operator error in initiating the recording function on the spare blast monitor (refer to section 8 in the 2019 AEMR and section 10 of the 2019-2020 Annual Review).</p>	
6 Reporting Conditions			
R1 Annual return documents			
<p>R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:</p> <ol style="list-style-type: none"> 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance – Licence Conditions, 4. a Statement of Compliance – Load based Fee, 5. a Statement of Compliance – Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance – Requirement to Publish Pollution Monitoring Data; and 	Compliant	<p>During the audit period BHOP submitted the following Annual Returns to the EPA:</p> <ul style="list-style-type: none"> • Annual Return for the reporting period 2 November 2018 to 1 November 2019 (November 2019 Annual Return); • Annual Return for the reporting period 2 November 2019 to 1 November 2020 (November 2020 Annual Return); • Annual Return for the reporting period 2 November 2020 to 1 November 2021 (November 2021 Annual Return). <p>BHOP's November 2019, November 2020 and November 2021 Annual Returns use the EPA's form and include:</p> <ol style="list-style-type: none"> 1. a Statement of Compliance (Section A); 2. a Monitoring and Complaints Summary (Section B); 3. a Statement of Compliance – Licence Conditions (Section C); 4. a Statement of Compliance – Load Based Fee Calculation (Section D); 	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>7. a Statement of Compliance – Environmental Management Systems and Practices.</p> <p>At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.</p>		<p>5. a Statement of Compliance – Requirement to Prepare Pollution Incident Response Management Plan (Section E);</p> <p>6. a Statement of Compliance – Requirement to Publish Pollution Monitoring Data (Section F); and</p> <p>7. a Statement of Compliance – Environmental Management Systems and Practices (Section G).</p>	
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.	Compliant	During the audit period there was no deviation in the reporting period (i.e. 2 November to 1 November of next year).
R1.3	<p>Where this licence is transferred from the licensee to a new licensee:</p> <p>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</p> <p>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.</p>	Not triggered (as at March 2022)	This condition is not triggered until a transfer of the EPL occurs.
R1.4	<p>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:</p> <p>a) in relation to the surrender of a licence – the date when notice in writing of approval of the surrender is given; or</p> <p>b) in relation to the revocation of the licence – the date from which notice revoking the licence operates.</p>	Not triggered (as at March 2022)	This condition is not triggered until a surrender or revocation of the EPL occurs.

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect <i>EPA</i> 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').	Compliant	It was stated that BHOP used the eConnect EPA portal for submission of all three Annual Returns during the audit period. The November 2019 Annual Return is recorded on the EPA website as having been received on 24 December 2019. The November 2020 Annual Return is recorded on the EPA website as having been received on 24 December 2020. The November 2021 Annual Return is recorded on the EPA website as having been received on 30 December 2021.	
R1.6 Monitoring report The licensee must supply with the Annual Return an Environmental Monitoring Report which is to be completed and attached to each Annual Return. The Environmental Monitoring Report must include: a) a summary of all monitoring results including Air, Water and Noise; b) an analysis and interpretation of all monitoring results; c) identification of any adverse trend or non-compliance; and d) actions to correct any adverse trends and/or non-compliances.	Compliant	Annual Returns are prepared and supplied to the EPA by BHOP's Senior Environmental Advisor. Each of BHOP's Annual Returns for 2019, 2020 and 2021 was supplied to the EPA with an "Environmental Monitoring Report" for the relevant reporting period (2 November to next 1 November). The Auditors consider that the Environmental Monitoring Reports for the 2019, 2020 and 2021 Annual Returns satisfy the requirements in paragraphs a) to d) of this condition.	
R1.7 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.	Compliant	During this March 2022 audit, the Auditors sighted BHOP's Annual Returns for 2016, 2017 and 2018. The 2016 Annual Return was due to be supplied to the EPA on 31 December 2016, which is more than 4 years prior to this March 2022 audit.	
R1.8 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:	Administrative non-compliance	Section H ('Signature and Certification') of the November 2019 Annual Return is signed and dated by a BHOP Director and BHOP's Secretary.	ANC – BHO will seek acknowledgement of completion regarding electronic submission.

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>a) the licence holder; or</p> <p>b) by a person approved in writing by the EPA to sign on behalf of the licence holder.</p> <p>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.</p> <p>Note: An application to transfer a licence must be made in the approved form for this purpose.</p>		<p>In signing Section H, the Director and Secretary (as printed on the EPA Annual Return form):</p> <ul style="list-style-type: none"> declare that the information in the Monitoring and Complaints Summary in section B of this Annual Return is correct and not false or misleading in a material respect, and certify that the information in the Statement of Compliance in sections A, C, D, E, F and G and any pages attached to Section C is correct and not false or misleading in a material respect. <p>Administrative non-compliance – In BHOP’s November 2020 and November 2021 Annual Returns, section H was not signed and dated by either a BHOP Director or BHOP’s Secretary.</p>	
<p>R1.9 Blast monitoring reporting</p> <p>The licensee must supply a Blast Management Report quarterly and must include:</p> <p>a) a summary of production blast levels (which excludes block 7 production blasts);</p> <p>b) the percentage of production blasts < 5 mm/s and the percentage of production blasts > 5 mm/s;</p> <p>c) an analysis and interpretation of all blast results from the licensed monitors and from the network of roving monitors used to assess potential impacts on the amenity of receptors;</p> <p>d) identification of any adverse trends or non-compliance;</p> <p>e) actions to correct any adverse trends or non-compliance; and</p> <p>f) any proposed future corrective actions that will be implemented to meet ongoing compliance with production blast limits at condition L5.1.</p>	<p>Administrative non-compliance</p> <p>Observation</p>	<p>Condition R1.9 was first included in the EPL on 4 October 2019.</p> <p>BHOP has prepared “Quarterly Blast Reports” commencing from the October to December 2019 quarter, with the most recent report being the October to December 2021 quarter (in draft form as of March 2022).</p> <p>The Auditors sighted sample emails from BHOP to the EPA as follows:</p> <ul style="list-style-type: none"> email of 15 September 2021 with attached Quarterly Blast Report for April to June 2021; and email of 7 April 2022 with attached Quarterly Blast Report for July to September 2021 (i.e. almost seven months after the previous report). <p>The above Quarterly Blast Reports included the requirements in paragraphs a) to f) of this condition, in the respective sections 2, 3, 4, 5, 6 and 7 of the report. The report also included a table with blast data for the number of production blasts during the reporting period across BHOP’s (EPL) licensed and roving monitors.</p> <p>It was stated that on a few occasions during the audit period, BHOP has supplied the EPA with two Quarterly Blast Reports (i.e. for successive quarters) at the same time.</p>	<p>ANC – Clarification of reporting requirements to be requested in update to the EPL.</p> <p>Ob 112 – To be actioned.</p>

Environment Protection Licence Number 12559 as at 4 October 2019			
Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		<p>Administrative non-compliance – During the audit period, BHOP has not consistently supplied the EPA with Quarterly Blast Reports at the required quarterly frequency.</p> <p>Observation No. 112 – In section 4 of each Quarterly Blast Report (which corresponds with paragraph c) of this condition), BHOP could include a comment that blast data for the reporting period is presented in the blast data table within the report.</p> <p>Auditor’s Note – The wording of this EPL condition is unclear and could be improved to state that each Blast Management Report:</p> <ul style="list-style-type: none"> (a) must cover a three month period (i.e. a quarter); and (b) be supplied to the EPA within a specified period (e.g. three months) after the end of the relevant quarter. 	
R2 Notification of environmental harm			
R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.	Compliant	<p>During this March 2022 audit, there was evidence that BHOP has used the EPA Environment Line (131 555) to notify the EPA of incidents that require notification.</p> <p>The Auditors sighted an Excel spreadsheet which BHOP’s Senior Environment Advisor uses as a prompt for providing the information required by this condition, when calling the EPA Environment Line.</p> <p>As an example of a notification made to the EPA Environment Line during the audit period, the Auditors sighted an email of 12 January 2021 from the EPA’s Environment Line Officer to BHOP’s Senior Environmental Advisor. The EPA’s email acknowledged receipt of BHOP’s call to the Environment Line (customer call reference no. C00480-2021) regarding the Crusher Baghouse point source air emissions exceedances (INX no. 6619), from testing conducted by Assured Environmental on 9 December 2020, with exceedances reported to BHOP on 11 January 2021. The EPA’s email also noted that the report provided by BHOP, “has gone to the relevant operations area”.</p>	

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
<p>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.</p> <p>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.</p>	Compliant	<p>During this March 2022 audit, there was evidence that upon becoming aware of an incident that requires notification, BHOP has provided written details of an incident to the EPA within 7 days of the date on which an incident occurred.</p> <p>For an example of notification in writing to the EPA within 7 days of the date on which an incident occurred, refer to supporting evidence/comments for EPL condition R2.1.</p>	
R3 Written report			
<p>R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:</p> <p>a) where this licence applies to premises, an event has occurred at the premises; or</p> <p>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,</p> <p>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.</p>	Compliant	It was stated that during the audit period, there has not been an 'event' under paragraphs a) or b) of this condition for which the EPA has requested a written report.	
<p>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.</p>	Compliant	Refer to supporting evidence/comments for EPL condition R3.1.	
<p>R3.3 The request may require a report which includes any or all of the following information:</p> <p>a) the cause, time and duration of the event;</p>	Compliant Observation	Refer to supporting evidence/comments for EPL condition R3.1.	Ob 113 – To be considered.

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
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.		Observation No. 113 – BHOP could consider updating INX InControl to receive and capture the information defined in EPL condition R3.3 a) – g) (for example, any witnesses to an incident, in paragraph c)).	
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.	Compliant	Refer to supporting evidence/comments for EPL condition R3.1.	
7 General Conditions			
G1 Copy of licence kept at the premises or plant			
G1.1 A copy of this licence must be kept at the premises to which the licence applies.	Compliant Observation	A copy of the EPL is available for reference by employees via BHOP's intranet and a link to the EPL is on the CBH website. In addition, a hard copy of the current EPL is kept on the Senior Environmental Advisor's desk.	Ob 114 – To be considered, either hard copy or on the company intranet.

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		Observation No. 114 – BHOP could consider keeping a hard copy of the current version of the EPL in the Mill Control Room for ease of access by personnel.	
G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.	Compliant	A copy of the current EPL (i.e. as issued on 4 October 2019) is kept at the Senior Environmental Advisor's desk. The EPL is available for inspection and reference, for regulators and employees via BHOP's intranet.	
G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Compliant	Refer to supporting evidence/comments for EPL condition G1.2.	
8 Special Conditions			
E1 Concrete Batching Plant construction			
E1.1 The licensee must construct the Concrete Batching Plant (CBP) consistent with the Construction Environment Management Plan (BHO-PLN-ENV-011) dated December 2017 and kept on EPA file DOC17/609105-02.	Compliant Observation	Construction of the Concrete Batching Plant was completed on 24 August 2018, prior to this audit period. The relevant Construction Environment Management Plan – Concrete Batching Plant (CEMP-CBP) was revision no. 1, dated 6 December 2017, Doc ID: BHO-PLN-ENV-011. As noted in the 2019 audit report, relevant BHOP personnel commenced a detailed internal audit of construction activities under the CEMP-CBP in November 2018, after completion of construction of the Concrete Batching Plant and associated noise bund. Not verified – During this March 2022 audit, BHOP was unable to provide evidence that the internal audit of construction activities under the Construction Environment Management Plan – Concrete Batching Plant, had been completed and an audit report issued.	NV – Noted. Ob 115 – To be actioned.

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Condition Number and Requirement	Audit Finding	Supporting Evidence/Comments	BHOP Response
		 <p>Photo 26 – Concrete Batching Plant (7 March 2022)</p> <p>Observation No. 115 – BHOP could consider conducting an internal audit against approved Construction Environmental Management Plans applicable to works under Mod 6. BHOP is encouraged to commence the internal audit during construction of Mod 6 works, using the February 2020 CEMP-CBP audit report and February 2020 compliance table as a template.</p>	

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
1. Notice to Landholders			
<p>1. 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.</p> <p>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.</p>	Administrative non-compliance	Administrative non-compliance – During this March 2022 audit, BHOP was unable to provide evidence of written notification to landholders of the leased land or of a published notice in a newspaper circulating in the lease area.	ANC – To be investigated.
Mining, Rehabilitation, Environmental Management Process (MREMP)			
2. Mining Operations Plan			
<p>(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 of the Department of Primary Industries – Mineral Resources.</p> <p>(b) The MOP must:</p> <ul style="list-style-type: none"> identify areas that will be disturbed by mining operations; detail the staging of specific mining operations; identify how the mine will be managed to allow mine closure; identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; 	Administrative non-compliance 2 Observations	<p>As of March 2022, BHOP's current Rasp Mine Mining Operations Plan (MOP) covers the period from 1 October 2021 to 30 September 2023.</p> <p>In relation to the paragraphs of this condition:</p> <p>(a) The Auditors sighted the Resources Regulator's letter of approval of the current MOP, dated 27 September 2021 (letter reference: MAG0012267).</p> <p>(b) In relation to each dot point in this paragraph, the MOP:</p> <ul style="list-style-type: none"> identifies "Nearly the entire surface of CML7 is disturbed or has previously been disturbed during the course of mining over 130 years" (Table 7-3); details the staging of specific mining operations (section 2 – Mining areas and methods); 	<p>ANC – To be developed into RMP.</p> <p>Ob 116 – To be actioned.</p> <p>Ob 117 – Noted.</p>

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
<ul style="list-style-type: none"> • reflect the conditions of approval under: <ul style="list-style-type: none"> - the Environmental Planning and Assessment Act 1979 - the Protection of the Environment Operations Act 1997 - and any other approvals relevant to the development including the conditions of this lease; and • have regard to any relevant guidelines adopted by the Director-General. <p>(c) The titleholder may apply to the Director-General to amend an approved MOP at any time.</p> <p>(d) It is a defence to a breach of this condition if:</p> <ul style="list-style-type: none"> 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 or the Occupational Health and Safety Act 2000; and ii) the Director-General had been notified of the terms of the order or direction prior to the operations constituting the breach being carried out. <p><i>Note: The Director-General is deemed to be notified of the terms of an order or direction if the order or Direction was issued by the Department or a copy of the order or direction has been faxed to 02 4931 6790.</i></p> <p>(e) A MOP ceases to have affect 7 years after date of approval or other such period as identified by the Director-General. An approved amendment to the MOP under condition (c) does not constitute an approval for the purpose of this paragraph unless otherwise identified by the Director-General.</p>		<ul style="list-style-type: none"> • in relation to how the mine will be managed to allow mine closure, refer to administrative non-compliance below; • identifies how mining operations will be carried out on site in order to prevent and/or minimise harm to the environment (e.g. Table 3-2 describes mitigation of key potential environmental issues during operations, including potential noise, vibration, air quality and water impacts); • generally reflects the conditions of approval of the Environmental Planning and Assessment Act 1979, the Protection of the Environment Operations Act 1997 and other approvals relevant to the development including the conditions of CML007 (e.g. Table 6-1); • has regard to relevant Guidelines (section 12 states that amendments to the MOP “will be undertaken in accordance with MOP Guidelines (DRE, September 2013)”). <p>(c) During the audit period, BHOP applied to the Resources Regulator to amend the MOP. For example, the Auditors sighted an email from the Resources Regulator dated 2 December 2020, which included an attached letter (not sighted) “MOP Satisfactory LETT0005328.pdf”.</p> <p>(d) It was stated that there have been no orders or directions received from the Resources Regulator during the audit period which would have caused a breach of this condition.</p> <p>(e) The current MOP will cease to have effect less than 7 years after the date of approval by the Resources Regulator.</p> <p>Administrative non-compliance – In relation to paragraph (b) of this condition, the current Mining Operations Plan (1 October 2021 to 30 September 2023) does not identify how the Rasp Mine will be managed to allow mine closure, due to an apparent lack of agreement with relevant agencies regarding end land use.</p> <p>Section 4 of the MOP states: “It is BHOP’s understanding that DPIE are currently involved in discussions with a number of government agencies to identify a process for determining the final end land use across the length of the Line of Lode, including those areas that come within the mining leases of Perilya.</p>	

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
		<p>For the purposes of this MOP there is no proposed end land use. The following sections discussing rehabilitation objectives risks and plans are based on meeting the current rehabilitation requirements as outlined in the PA 07_0018 (MOD4) with agreement for end land use from DPIE-RR yet to be obtained.”</p> <p>During the audit period, external service provider, Mine Earth (WA) issued a report titled: “Rasp Mine – Dust Management Options Assessment” and dated July 2021, for BHOP’s Mod 6 application (refer to Appendix I of BHOP’s Modification Report for Mod 6, dated August 2021). Section 4.7 (Dust management options assessment) in the report identified 11 options (listed in Table 5 of the report) for post-closure dust management. The report states (in Table 6) that options 1, 2a, 2b and 3 as described below “were considered to be the most effective solutions”:</p> <ul style="list-style-type: none"> • Option 1 – Cover mining areas with waste rock; • Option 2a – Stabilise mining areas with an impervious cover (e.g. concrete) to bind contaminants and fine particles; • Option 2b – Stabilise mining areas with an impervious cover (e.g. slag) to bind contaminants and fine particles; and • Option 3 – Install bunds or other wind breaks to reduce wind velocity. <p>Observation No. 116 – BHOP could consider defining on the cover page of the MOP the approval status of the MOP (i.e. ‘draft’ or ‘approved’).</p> <p>Observation No. 117 – In relation to the sixth dot point in paragraph (b) of this condition, when preparing a new or amended MOP or Rehabilitation Management Plan, BHOP could have regard to relevant updated environmental guidelines adopted by the Resources Regulator (e.g. in relation to rehabilitation) and reference any relevant guideline.</p>	

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
Annual Environmental Management Report (AEMR)			
3. Reporting			
<p>(a) The lease holder must lodge Environmental Management Reports (EMR) with the Director-General annually or at dates otherwise directed by the Director-General.</p> <p>(b) The EMR must:</p> <ul style="list-style-type: none"> - 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; <p>Additional environmental reports may be required on specific surface disturbing operations or environmental incidents from time to time as directed in writing by the Director-General and must be lodged as instructed.</p>	Compliant Observation	<p>The Auditors sighted evidence of lodgement of Annual Environmental Management Reports (AEMRs) during the audit period as follows:</p> <ul style="list-style-type: none"> • 2019 AEMR – email of 1 April 2020 from the Resources Regulator to acknowledge receipt of the AEMR; • 2020 AEMR – email of 2 March 2021 with AEMR and plans attached, sent by BHOP to the Resources Regulator; and • 2021 AEMR – email of 28 February 2021 with AEMR and plans attached, sent by BHOP to the Resources Regulator. <p>The 2019, 2020 and 2021 AEMRs address the requirements in paragraph (b) of this condition as follows:</p> <ul style="list-style-type: none"> - report against compliance with the MOP – section 1.2 in each of the AEMRs refers to the MOP as a Current Approval and states: “The AEMR, as required by the mining leases, incorporates reporting against the MOP.” Refer to observation below; - report on progress in respect of rehabilitation completion criteria – section 5 in each AEMR; - report on the extent of compliance with regulatory requirements – section 8 in each AEMR; and - have regard to any relevant guidelines adopted by the Director-General (section 1 of each AEMR states: “It [the AEMR] has been prepared in accordance with the NSW Government <i>EDG03 – Guidelines to the Mining, Environmental, Rehabilitation and Environmental Management Process</i>”). <p>It was stated that during the audit period, the Resources Regulator has not directed BHOP to lodge additional environmental reports.</p> <p>Observation No. 118 – BHOP could include a section in its Annual Environmental Management Reports to state whether BHOP has complied with the relevant conditions of CML7, MPL183, MPL184, MPL185 and MPL186, during the reporting period.</p>	Ob 118 – To be considered.

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
Auditor's Note: There is no condition number 4 in CML7			
5. Working Requirement			
<p>5. The lease holder must: expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than \$100,000 per annum whilst the lease is in force.</p> <p>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.</p>	Compliant	<p>BHOP can demonstrate if required, that operational expenditure on the lease area has exceeded \$100,000 per annum since BHOP's commencement of mining operations at the Rasp Mine in 2012.</p> <p>The operation's business plan defines that budgeted expenses (capital and operating) exceed \$80m for calendar year 2022.</p> <p>Auditor's Note – As noted in the 2019 audit report, the Resources Regulator informed BHOP (by letter dated 16 July 2018, reference: 18/493165) regarding its intention to omit this condition from CML7. As of March 2022, the intended deletion of this condition has not occurred.</p>	
6. Control of Operations			
<p>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:-</p> <p>(i) cease working the lease; or</p> <p>(ii) cease that part of the operation not complying with the Act or conditions;</p> <p>until in the opinion of the Environmental Officer the situation is rectified.</p> <p>(b) The lease holder must comply with any direction given. The Director-General may confirm, vary or revoke any such direction.</p> <p>(c) A direction referred to in this condition may be served on the Mine Manager.</p>	Compliant	<p>It was stated that during the audit period, no directives in relation to ceasing an activity have been received from the Resources Regulator in relation to a non-compliance with any provision of the <i>Mining Act 1992</i> or any condition of CML7.</p> <p>Since July 2020, BHOP's Mine Manager (instead of BHOP's General Manager) is the statutory Mine Manager.</p>	

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
7. Reports			
<p>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:</p> <p>(a) Full particulars, including results, interpretation and conclusions, of all exploration conducted during the twelve months period;</p> <p>(b) Details of expenditure incurred in conducting that exploration;</p> <p>(c) A summary of all geological findings acquired through mining or development evaluation activities;</p> <p>(d) A statement of the ore and mineral reserves</p> <p>(e) Particulars of exploration proposed to be conducted in the next twelve months period;</p> <p>(f) All plans, maps, sections and other data necessary to satisfactorily interpret the report.</p>	Non-compliant (low risk)	<p>It was stated that surface exploration drilling has increased in the two years prior to March 2022.</p> <p>It was stated that BHOP's exploration report for 2020-2021 was provided to the DPE on 16 November 2021, which is 39 days after the CML7 anniversary date (8 October).</p> <p>Non-compliant (low risk) – During this March 2022 audit:</p> <ul style="list-style-type: none"> BHOP was unable to provide evidence that exploration reports for 2018-2019 and 2019-2020 were prepared and provided to the DPE within the required 28 day period; and the 2020-2021 exploration report (which was not sighted) was provided to the DPE on 16 November 2021 (i.e. 11 days late). 	NC – Action to be developed within INX to advise of due date and attach relevant submission evidence.
8. Licence to use Reports			
<p>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.</p> <p>(b) The non-exclusive licence will operate as a consent for the purposes of section 365 of the Mining Act 1992.</p>	Compliant	This condition relates to the grant of a non-exclusive licence by BHOP to the Minister to publish, print, adapt and reproduce all exploration reports lodged.	

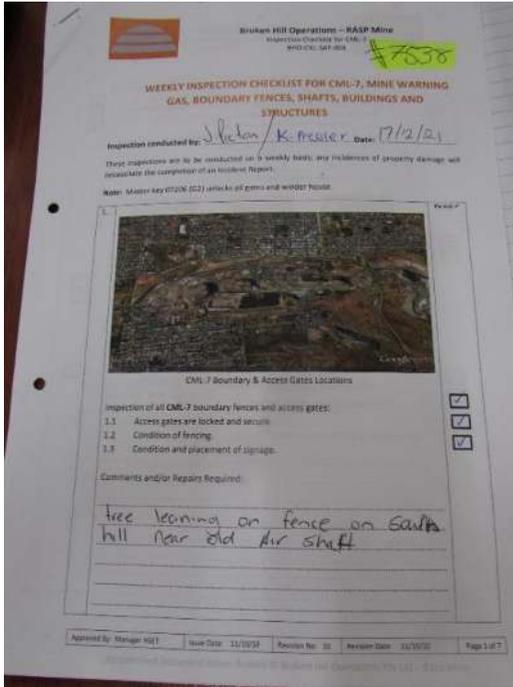
Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
9. Confidentiality			
<p>9. (a) All exploration reports submitted in accordance with the conditions of this lease will be kept confidential while the lease is in force, except in cases where:</p> <ul style="list-style-type: none"> (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. <p>(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.</p> <p>(c) The Director-General may extend the period of confidentiality.</p>	Compliant	This condition relates to the DPE keeping all exploration reports confidential subject to the described exceptions.	
10. Terms of the non-exclusive licence			
<p>10. The terms of the non-exclusive copyright licence granted under condition 8 (a) are:</p> <ul style="list-style-type: none"> (a) the Minister may sub-licence others to publish, print, adapt and reproduce but not on-licence reports. (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. 	Compliant	Refer to supporting evidence/comments for CML7 condition 8.	

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
<p>(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.</p> <p>(d) there is no royalty payable by the Minister for the licence.</p> <p>(e) 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.</p>			
Auditor’s Note: There is no condition number 11 in CML7			
12. Safety			
<p>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.</p>	<p>Compliant 2 Observations</p>	<p>As noted in the 2016 and 2019 audit reports, it was stated that to render historical abandoned shafts and excavations across the operation as safe, these either: a) have concrete slabs installed/placed over the entrance; or b) are suitably fenced to deter access to the shaft.</p> <p>A number of these historical abandoned shafts and excavations are located in the areas of the BHP Pit and Kintore Pit.</p> <p>BHOP maintains a plan of all known historical/abandoned surface shafts on the mining lease.</p> <p>The entire BHOP Rasp Mine site is suitably fenced, and the fence is repaired if it is vandalised or has deteriorated. Security perimeter fence and shaft fence inspections are scheduled and conducted monthly by a BHOP Emergency Services Officer. The inspections include boundary fences and access gates, and the four abandoned shafts which are used for ventilation, i.e. Thomson Shaft, Brown Shaft, No. 7 Shaft, and No. 4 Shaft.</p>	<p>Ob 119 – To be investigated.</p> <p>Ob 120 – To be actioned.</p>

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
		<p>The Auditors sighted the following inspection reports (using form BHO-CKL-SAF-004, Revision No. 10, issued on 11 October 2018) for inspections completed during the audit period:</p> <ul style="list-style-type: none"> 19 November 2021 inspection, signed on 21 November 2021 – INX no. 7483 was assigned; and 17 December 2021 inspection, signed on 18 December 2021 – INX no. 7538 was assigned. <p>Observation No. 119 – Two abandoned shafts (one each at the BHP Pit and Kintore Pit) are currently protected by posts and chains instead of fences. For additional safety and security, BHOP could consider erecting fences around these abandoned shafts.</p> <p>Observation No. 120 – BHOP could consider inclusion of the S49 Ryan Street Dam on the inspection checklist.</p>	
13. Rehabilitation			
13. Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.	Not triggered (as at March 2022) Observation	<p>In the 2016 and 2019 audit reports, it was noted that:</p> <p>“The MREMP Review minutes from 18th October 1995 stated that the Department of Mineral Resources would take on the responsibility for maintaining the long term stability of the sumps and undertaking any future rehabilitation required at the site when the former Normandy Mining CML7 lease expires. These meeting minutes were signed by the DMR Acting Senior Inspector of Mines (Western Region).</p> <p>It was stated by BHOP personnel that as a consequence of the Department being responsible for rehabilitation of disturbed land prior to BHOP’s commencement of occupation of CML7, BHOP is only responsible for the rehabilitation of land disturbed on CML7 since it commenced occupation of CML7.”</p> <p>Observation No. 121 – BHOP could consider the legal effect of this condition regarding whether the words, “disturbed land” mean:</p> <ul style="list-style-type: none"> land which only BHOP has disturbed, or land which BHOP and previous lessees have disturbed. 	Ob 121 – To be considered.

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
Auditor's Note: There is no condition number 14 in CML7			
15. Exploratory Drilling			
<p>15. (1) At least twenty eight days prior to commencement of drilling operations the lease holder must notify the relevant Department of Natural Resources regional hydrogeologist of the intention to drill exploratory drill holes together with information on the location of the proposed holes.</p> <p>(2) If the lease holder drills exploratory drill holes he must satisfy the Director-General that:-</p> <p>(a) all cored holes are accurately surveyed and permanently marked in accordance with Departmental guidelines so that their location can be easily established;</p> <p>(b) all holes cored or otherwise are sealed to prevent the collapse of the surrounding surface;</p> <p>(c) all drill holes are permanently sealed with cement plugs to prevent surface discharge of groundwaters;</p> <p>(d) if any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape;</p> <p>(e) if any drill hole meets an artesian or sub-artesian flow it is effectively sealed to prevent contamination of aquifers.</p> <p>(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.</p> <p>(g) once any drill hole ceases to be used the land and its immediate vicinity is left in a clean, tidy and stable condition.</p>	<p>Non-compliant (low risk)</p>	<p>The Auditors consider that this condition relates only to surface exploratory drilling (i.e. not underground drilling).</p> <p>Section 2.1.1 of BHOP's 2019, 2020 and 2021 AEMRs provides details of surface exploration undertaken during the reporting period. In each of these AEMRs, section 2.1.1 states:</p> <p>“The drill pads were installed off existing tracks with minimal earthworks required.</p> <p>No surface rehabilitation activities were undertaken on CML7 during the reporting period as the drill pads were still operational, although drill holes have been capped.”</p> <p>Non-compliant (low risk) – During this March 2022 audit, BHOP was unable to provide evidence of having given the minimum 28 days' prior notification of surface exploratory drilling to the Resources Regulator.</p>	<p>NC – To be investigated.</p>

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
Auditor's Note: There is no condition number 16 in CML7			
17. Transmission 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.	Compliant	It was stated that during the audit period, no mining or related activities have impacted or affected the ongoing use of the main HV transmission line, communication lines, pipelines or any other utility located on CML7. During this audit there was no visual evidence that mining operations are adversely impacting on the existing utilities service corridor.	
18. Fences, Gates			
18. (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. (b) Gates within the lease area must be closed or left open in accordance with the requirements of the landholder.	Compliant	In relation to the paragraphs of this condition: (a) Fences are inspected monthly by a BHOP Emergency Services Officer and a hard copy inspection form is completed (BHO-CKL-SAF-004). Hard copies of these forms are kept in a folder and an INX incident number is assigned if any property damage is detected. The Auditors sighted an inspection form for 17 December 2021, which noted a tree was leaning on a fence on South Hill near an old air shaft (INX no. 7538 was assigned). (b) During the audit period no correspondence was received from the State of NSW in relation to any requirements under this paragraph. A total of seven gates are located on CML7. All gates, except the front gate to the site on Eyre Street, are generally kept locked unless access is required.	

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
			
<p>Photo 27 – First page of completed inspection checklist for CML7, dated 17 December 2021, with assigned INX no. 7538 regarding tree leaning on fence on South Hill (9 March 2022)</p>			
19. Roads and Tracks			
<p>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.</p>	Compliant	<p>In relation to the paragraphs of this condition:</p> <p>(a) In relation to surface subsidence, the current MOP (1 October 2021 to 30 September 2023) states (page 83): “Mining of the Zinc Lodes requires mining to be extended beneath South Road and a 60 m exclusion zone has been established for this area.”</p>	

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Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
(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.		<p>The Auditors sighted an internal email of 20 September 2021 to BHOP's Technical Services Superintendent, which noted that South Road is inspected and photographed, "every month during surface inspections".</p> <p>The Auditors sighted an Excel spreadsheet showing the results of surface inspections (at locations ZM001 to ZM017, of which ZM014 to ZM017 are closest to South Road) from 15 September 2015 to 18 June 2021.</p> <p>(b) It was stated that during the audit period, BHOP has not received any claims from Council or TfNSW regarding a contribution to the cost of road repairs.</p>	
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 Natural Resources.	Compliant	It was stated that during the audit period, the only access tracks constructed on site were the vehicle access tracks on the TSF2 Embankments (approved in Mod 4). No access tracks (vehicle or pedestrian) were closed during the audit period.	
Auditor's Note: There is no condition number 21 in CML7			
22. Use of Mercury or Cyanide			
22. The lease holder must not use mercury or cyanide or any solution containing cyanide for the recovery of minerals on the lease area without the prior written approval of the Minister and subject to any conditions he may stipulate.	Compliant	It was stated that during the audit period, the site did not use mercury or cyanide or any solution containing cyanide for the recovery of minerals on the lease area.	
23. Resource Recovery			
23. (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	Compliant	It was stated that during the audit period, the site has not received any notice under this condition from the DPE or Resources Regulator.	

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
<p>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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p>			

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
24. Indemnity			
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 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.	Compliant	<p>Relevant BHOP personnel were aware of and understood this condition.</p> <p>A Deed of Responsibility for the Line of Lode Precinct was issued to CBH Resources Limited from the NSW Department of Trade and Investment – Crown Lands, on 23rd December 2014. The Auditors sighted a copy of this Deed during this March 2022 audit.</p>	
25. Single Security			
25. (a) A security in the sum of \$250,000.00 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 Consolidated Mining Lease No 7 (Act 1973), Mining Purposes Lease Nos 183, 184, 185 and 186 (Act 1973)). 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.	Compliant	<p>As noted in the 2016 and 2019 audit reports:</p> <p>“BHOP was able to provide a scanned copy of the security certificate from the Bank of Tokyo-Mitsubishi UFJ. Ltd Sydney Branch (reference 746LG702161) dated 29 June 2011 for \$250,000.00 (Australian Dollars) that was stated to have been provided to the Minister.</p> <p>BHOP was able to provide written confirmation from the DRE that it holds the above security certificate.”</p> <p>It was noted that Appendix 2 of BHOP’s Waste Management Plan (issued on 25 June 2019) reproduces a “Notice of assessment for security (Assessed Deposit)” letter dated 30 January 2018 (reference: OUT17/47194) from the then Division of Resources and Geoscience (NSW DPE), which advised BHOP that:</p>	

Consolidated Mining Lease Number 7 as renewed on 17 January 2007			
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
<p>(b) The lease holder must provide the security required by sub-clause (a) in one of the following forms:</p> <p>(i) cash,</p> <p>(ii) a security certificate in a form approved by the Minister and issued by an authorised deposit-taking institution.</p>		<p>“An assessment of the security deposit required under CML7, MPL’s 183, 184, 185, 186 has been made under section 261BC of the Mining Act 1992 by a delegate of the Secretary. The reason for this assessment is to secure funding for the fulfilment of rehabilitation obligations under CML7, MPL’s 183, 184, 185, 186 in relation to Rasp Mine.</p> <p>The Assessed Deposit is determined to be \$12,196,000.</p> <p>This is no change in the current security deposit held by the NSW Department of Planning and Environment (the Department).</p> <p>The assessment considered the submitted Rehabilitation Cost Estimate (RCE) dated 16 October 2017. The Department identified this RCE to be less than the estimate determined by the Ministers Review (24/09/2015).</p> <p>The Department notes that the final land use for Rasp Mine is currently being considered as part of the wider Line of Lode Working Group chaired by the Department of Premier and Cabinet. The outcome of this working group will inform the closure requirements and rehabilitation commitments for CML7, including the level of heritage items to be retained as part of the consideration for land use for the post mining environment on CML7 and associated titles.”</p>	
Special Conditions – General			
<p>26. In respect of the area shown on Catalogued Plan No M8388 the registered holder shall not conduct any mining operations other than diamond drilling between the depths of 15.24 metres and 76 metres below the surface unless with the consent of the Minister first and subject to such conditions as may be stipulated.</p>	<p>Compliant Observation</p>	<p>It was stated that during the audit period, no mining operations contrary to this condition have been conducted in respect of plan M18388.</p> <p>Observation No. 122 – The reference in this Condition to Catalogued Plan Number M8388 seems to be incorrect. Schedule 2 of CML7 refers to plan M18388. BHOP could clarify the correct reference with the appropriate government agency.</p>	<p>Ob 122 – To be investigated.</p>

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Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
27. In respect of the area shown on Catalogued Plan No M2193 the registered holder shall ensure that mining operations are conducted in such a manner as not to interfere with the stability of any railway line traversing the area and the registered holder shall adhere to any direction to this affect which may be given from time to time by the Minister.	Compliant	Figure 3-1 in the current MOP identifies the Surface Exclusion Zone for Railway Infrastructure – Cross Section (looking north). The current MOP states (page 93): “An exclusion area and buffer zone of 150m was established around the rail infrastructure.” It was stated that during the audit period there has been no disruption to railway lines traversing the area.	
28. The registered holder shall not deposit any refuse or waste rock on the dumps located on the areas indicated by Catalogue Plan Nos D3564, D3565, D3566 and D2322 unless authorised by the Minister and subject to such conditions as may be stipulated.	Compliant	It was stated that during the audit period, no refuse or waste rock has been deposited on the dumps located on these areas.	
29. (a) Notwithstanding that the registered holder shall have complied with conditions numbered 30 to 32 (inclusive) the registered holder shall pay to the public authority the cost incurred by such public authority of making good any damage caused by operations carried on by or under the authority of the registered holder or any person claiming through or under the registered holder. (b) AND THE REGISTERED HOLDER HEREBY COVENANTS with the said public authority that the registered holder will pay to the said public authority the cost incurred by the public authority of making good any such damage caused as aforesaid. AND IT IS HEREBY AGREED AND DECLARED that the amount to be paid by the registered holder under the provisions of this clause shall include in addition to the cost of all necessary labour and materials all costs and expenses reasonably incurred in and about the making of surveys the preparation of plans and specifications and estimates the supervision and inspection of the works and all administrative and overhead costs and expenses of the public authority as the case may be related or attributable to the works	Compliant	It was stated that during the audit period, BHOP has not received any correspondence from a public authority either to request or demand the cost of the public authority making good any damage caused by BHOP’s operations. As noted in the 2016 and 2019 audit reports: “It was stated that an external request was made to BHOP in August 2015 from Crown Lands relating to the sharing the cost of upgrading a length of boundary fence located at British Flats (to restrict access to the public in that area). It appears this external request has not (as yet) met the criteria in this condition.” It was stated that BHOP of its own accord, intends to reinstate fencing in the vicinity of British Flats in the next 12 months (i.e. by early 2023).	

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Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
undertaken to make good any damage caused. A certificate under the hand of the public authority as to the amount of the cost of making good any damage shall in all respects and for all purposes be conclusive evidence of the amount of such cost and of the due determination thereof.			
Special Conditions – Catchment Areas and Reserves			
<p>30. (a) If the registered holder is using or about to use any process which in the opinion of the Minister is likely to cause contamination of the waters of Stephen's Creek Catchment Area the registered holder shall refrain from using or cease using as the case may require such process within twenty four hours of the receipt by the registered holder of a notice in writing under the hand of the Minister or the Director General requiring the registered holder so to do.</p> <p>(b) The registered holder shall comply with any regulations now in force or hereafter to be in force for the protection from pollution of the said Catchment Area.</p> <p>(c) The registered holder shall not erect nor permit to be erected any dwellings unless with the consent of the Minister or Country Energy-Water and subject to such conditions as may be stipulated.</p> <p>(d) The registered holder shall make such provisions for sanitation as may be approved by Country Energy-Water and shall at all times observe and perform any requirements of the said Country Energy-Water respecting sanitation.</p>	Compliant	<p>In relation to the paragraphs of this condition:</p> <p>(a) It was stated that current mining, processing and related activities are unable to practically contaminate Stephens Creek due to: a) the operational controls in place; b) existing underground mining and waste rock storage practices; and c) the significant distance from CML7 to Stephens Creek. The potential for contaminated water from the site discharging to Stephens Creek (a distance of 18 km) is considered to be remote.</p> <p>(b) It was stated that during the audit period, there has been no evidence that the Stephens Creek catchment area has been adversely impacted by the Rasp Mine.</p> <p>(c) No new dwellings have been erected on site during the audit period.</p> <p>(d) During the audit period, BHOP has not received any correspondence from Essential Energy or Essential Water in relation to sanitation on site. All sewage from the project is collected and pumped for treatment at Broken Hill City Council's sewage treatment plant.</p>	
31. Operations shall be conducted in such a manner as not to interfere with or cause damage to the assets of Country Energy-Water situated on or around the subject area.	Compliant	It was stated that during the audit period, BHOP has not received any correspondence from Essential Energy and/or Essential Water regarding interference with or damage to their assets situated on or around CML7.	

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Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response
32. The registered holder shall as far as may be practicable so conduct operations as not to interfere in any way with the public use and enjoyment of Reserve No 2421 for Temporary Common; Reserve No 69262 from Sale for future Public Requirements, Reserve No 3073 from Sale for Public Recreation and Reserve No 30905 for Quarry.	Compliant Observation	<p>As was the case in the previous February 2016 and February 2019 independent environmental audits, BHOP was unable to locate the Reserve areas named in this condition.</p> <p>It is considered that the current MOP (1 October 2021 to 30 September 2023), which addresses public access issues, is an indication of BHOP's position of not interfering with public use and enjoyment of non-operational areas. For example, page 21 of the current MOP refers to the Broken Hill Miners Memorial and Broken Earth Café not being affected by mining operations.</p> <p>Table 2-3 in the current MOP identifies "Other Users" (Café & Miners Memorial, Olive Grove, and Vodafone Communications Tower) as Domain 8.</p> <p>Observation No. 123 – BHOP could contact the appropriate government agency to confirm the locations of these named Reserve areas.</p>	Ob 123 – To be actioned.
Special Conditions – Prospecting/Mining Restriction			
33. The registered holder must not prospect or mine any mineral on the surface of the areas shown by:- <ul style="list-style-type: none"> a) Yellow tint on the plan annexed hereto of below the surface thereof to a depth of 10 meters; b) Blue tint on the plan annexed hereto of below the surface thereof to a depth of 15.24 meters; c) Red tint on the plan annexed hereto of below the surface thereof to a depth of 20 meters; d) Green tint on the plan annexed hereto of below the surface thereof to a depth of 76.20 meters. 	Compliant	<p>It was stated that prospecting or mining operations do not occur on the surface of these colour tinted areas.</p> <p>A copy of the plan referred to in this condition is attached to the copy of CML7 included as Annexure C to the Rasp Mine Environmental Assessment Report (July 2010) and as Appendix B to the MOD 4 EA, both of which are available on the CBH website.</p>	
34. Subject to the requirements of any order issued pursuant to section 75 of the Mining Act (1992): <ul style="list-style-type: none"> (a) the registered holder shall not, unless with the written approval of the Minister and subject to such conditions as he may impose, carry out a mining purpose on the lands described in column 1 of the 	Compliant	<p>Relevant BHOP personnel were aware of and understood this condition including the depth restrictions.</p> <p>As noted in the 2016 and 2019 audit reports:</p>	

Consolidated Mining Lease Number 7 as renewed on 17 January 2007															
Condition Number and Requirement	Status	Supporting Evidence/Comments	BHOP Response												
<p>Schedule numbered 2 annexed hereto other than a mining purpose specified opposite that description in column 2 of that schedule;</p> <p>(b) the registered holder shall not carry out a mining purpose specified in column 2 of Schedule 2 except in accordance with the conditions of this lease including any conditions that may be referred to in Column 3 of that schedule opposite that purpose.</p> <p style="text-align: center;">Schedule No 2</p> <p>This page and the succeeding pages is the schedule No. 2 and referred to in the annexed Consolidated Mining Lease No. 7 under the Mining Act, 1973, granted eighth day of October 1987.</p> <p style="text-align: center;">..... Witness to Minister's signature</p> <p style="text-align: center;">Details of Lands, Purposes and Depths</p> <table border="1"> <thead> <tr> <th>Lands</th> <th>Purposes</th> <th>Depth Restriction</th> </tr> </thead> <tbody> <tr> <td>Shown on plan M18388 previously being Mining Purpose Lease 597 (Act 1906)</td> <td> <ol style="list-style-type: none"> Constructing, maintaining or using in connection with mining or mining purposes a building, dam or any machinery. The dumping or depositing of any ore, mineral, mine residues or tailings. </td> <td>The surface and the soil below thereof to a depth of 15.24 metres.</td> </tr> <tr> <td>Shown on plan M18466 previously being Mining Purpose Lease 607 (Act 1906)</td> <td> <ol style="list-style-type: none"> Constructing, maintaining or using in connection with mining or mining purposes a building or any machinery. The treatment of tailings, water or a mineral bearing substance for the extraction or obtaining of any mineral therefrom. </td> <td>The surface and the soil below thereof to a depth of 15.24 metres.</td> </tr> <tr> <td>Shown on plan M22229 previously being Mining Purpose Lease 1238 (Act 1906)</td> <td> <ol style="list-style-type: none"> Constructing, maintaining or using in connection with mining or mining purposes a building, electricity transmission line, pipeline, railway, road or any machinery/ The treatment of tailings, water or a mineral bearing substance for the extraction or obtaining of any mineral therefrom. The generation of electricity for use in connection with mining or mining purposes. The dumping or depositing of any ore, mineral, mine residues or tailings. Erecting dwellings for the use of persons employed on or about the mine or on or about land subject to a lease for mining purposes. </td> <td>The surface and the soil below thereof to a depth of 76.20 metres.</td> </tr> </tbody> </table>	Lands	Purposes	Depth Restriction	Shown on plan M18388 previously being Mining Purpose Lease 597 (Act 1906)	<ol style="list-style-type: none"> Constructing, maintaining or using in connection with mining or mining purposes a building, dam or any machinery. The dumping or depositing of any ore, mineral, mine residues or tailings. 	The surface and the soil below thereof to a depth of 15.24 metres.	Shown on plan M18466 previously being Mining Purpose Lease 607 (Act 1906)	<ol style="list-style-type: none"> Constructing, maintaining or using in connection with mining or mining purposes a building or any machinery. The treatment of tailings, water or a mineral bearing substance for the extraction or obtaining of any mineral therefrom. 	The surface and the soil below thereof to a depth of 15.24 metres.	Shown on plan M22229 previously being Mining Purpose Lease 1238 (Act 1906)	<ol style="list-style-type: none"> Constructing, maintaining or using in connection with mining or mining purposes a building, electricity transmission line, pipeline, railway, road or any machinery/ The treatment of tailings, water or a mineral bearing substance for the extraction or obtaining of any mineral therefrom. The generation of electricity for use in connection with mining or mining purposes. The dumping or depositing of any ore, mineral, mine residues or tailings. Erecting dwellings for the use of persons employed on or about the mine or on or about land subject to a lease for mining purposes. 	The surface and the soil below thereof to a depth of 76.20 metres.		<p>"All of the "plans" referred to in Schedule 2 – Details of Lands, Purposes and Depths, were able to be located by relevant BHOP personnel (including survey personnel), to verify compliance with this condition.</p> <p>It was noted that Plan D3815 has no records on the Geological Survey of New South Wales.</p> <p>Plan D3815 was previously Mining Lease 177 and is now annexed under CML7. Plan D3815 is shown on Plan D 6199 R inside ML12 (i.e. in the centre of the plan)."</p>	
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Appendix 1 – Endorsement of March 2022 Audit Team and granting of extension of time

In accordance with Project Approval 07_0018 Schedule 4, condition 7(a), on 10 December 2021 the nominee of the Secretary of the DPE endorsed the appointment of the Audit Team (specifically, the Lead Auditor, Kurt Hammerschmid) for this March 2022 audit. The DPE's letter of 10 December 2021 is reproduced on the following page.

On BHOP's request, the nominee of the Secretary of the DPE granted an extension of time (beyond the required three-yearly interval between independent environmental audits) until 7 March 2022, to conduct this March 2022 audit. The DPE's letter of 18 January 2022 is reproduced on the following page.

On BHOP's request, the nominee of the Secretary of the DPE granted an extension of time (as permitted under Project Approval Schedule 4, condition 8) until 6 June 2022, for BHOP to submit this audit report and BHOP's response to recommendations for the Rasp Mine. The DPE's letter of 22 March 2022 is reproduced on the following page.



Mr Devon Roberts
CBH Resources – Rasp Mine
Broken Hill Operations Pty Ltd
PO Box 5073
BROKEN HILL NSW 2880

10/12/2021

Dear Mr Roberts

**RASP Project (MP 07_0018)
Independent Environmental Audit 2021**

I refer to your letter of 16 November 2021 seeking approval of Kurt Hammerschmid of Integrated Environmental Systems Pty Ltd as the lead auditor for the upcoming Independent Environmental Audit of RASP Project (the project), submitted for the Secretary's consideration, as required under Schedule 4, Condition 7 of project approval MP 07_0018, as modified (the approval).

Having considered the qualifications and experience of Mr Hammerschmid, the Secretary endorses the appointment of Mr Hammerschmid to undertake the audit in accordance with Schedule 4, Condition 7 of the approval. This approval is conditional on Mr Hammerschmid being independent of the project.

The audit is to be conducted in accordance with the AS/NZS ISO 19011 Australian/New Zealand Standard: Guidelines for quality and/or environmental management systems auditing. The Auditor may wish to have regard to the Independent Audit Guideline dated October 2015. A copy of the guideline can be located at <http://planning.nsw.gov.au/Policy-and-Legislation/Mining-and-Resources/Integrated-Mining-Policy>.

The audit report is to include the following:

- consultation with the relevant agencies;
- a compliance table indicating the compliance status of each condition of approval and any relevant EPL;
- not use the term "partial compliance";
- recommend actions in response to non-compliances;
- review the adequacy of plans and programs required under this consent; and
- identify opportunities for improved environmental management and performance.

Within six weeks of completing of this audit, RASP is to submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report and a timetable to implement the recommendations.

Prior to submitting the audit report to the Secretary, it is recommended that RASP review the report to ensure it complies with the relevant consent condition.

4 Parramatta Square, 12 Darcy Street, Parramatta 2150 | dpe.nsw.gov.au | 1

Should you need to discuss the above, please contact Georgia Dragicevic, Senior Compliance Officer, on (02) 4247 1852 or by email to Georgia.Dragicevic@planning.nsw.gov.au.

Yours sincerely

Katrina O'Reilly
Team Leader - Compliance
Compliance
As nominee of the Planning Secretary



Mr Devon Roberts
Senior Environmental Advisor
BROKEN HILL OPERATIONS PTY LTD
130 EYRE STREET
BROKEN HILL 2880

18/01/2022

Dear Mr Roberts

**Rasp Mine - (MP07_0018)
Extension of Time to undertake the Independent Environmental Audit (IEA)**

I refer to your document (MP07_0018-PA-11) submitted on 18 January 2022 to the Department of Planning and Environment (the Department) requesting an extension of time to undertake the Independent Environmental Audit (IEA) for Rasp Mine as required under Schedule 4, Condition 7 of MP07_0018 as modified (the approval).

The Department notes the reasons, namely current COVID restrictions justifying the request. Accordingly, the Secretary grants an extension of time to undertake the IEA until 7 March 2022.

If you wish to discuss the matter further, please contact me on 0429400261 or at katrina.oreilly@planning.nsw.gov.au

Yours sincerely

Katrina O'Reilly
Team Leader - Compliance
Compliance
As nominee of the Planning Secretary

4 Parramatta Square, 12 Darcy Street, Parramatta 2150 | dpe.nsw.gov.au | 1



Department of Planning and Environment

Mr Devon Roberts
Senior Environmental Advisor
BROKEN HILL OPERATIONS PTY LTD
130 EYRE STREET
BROKEN HILL NSW 2880

22/03/2022

Dear Mr Roberts

**Rasp Mine - (MP07_0018)
Independent Environment Audit Extension of Time Request**

I refer to your request (MP07_0018-PA-15) submitted to the Department of Planning and Environment (the Department) on 21 March 2022 for an extension of time to submit the Independent Environment Audit (IEA) Report for RASP Mine as required under Schedule 4 condition 7 of MP07_0018.

The Department notes the reasons justifying the request. In accordance with Schedule 4 condition 7 (b) of MP07_0018, the Planning Secretary has granted an extension of time until 6 June 2022 to submit the IEA Report and Broken Hill Operations Pty Ltd's Response to Recommendations for RASP Mine.

If you wish to discuss the matter further, please contact me on 0429400261 or compliance@planning.nsw.gov.au

Yours sincerely

Katrina O'Reilly
Team Leader - Compliance
Compliance
As nominee of the Planning Secretary

4 Parramatta Square, 12 Darcy Street, Parramatta NSW 2150 | Looked Bag 5022, Parramatta NSW 2124 | dpe.nsw.gov.au | 1

Appendix 2 – Consultation letters and responses received

In accordance with Project Approval 07_0018, Schedule 4, condition 7(b), and section 4.2 of the NSW Government's *Independent Audit Guideline (Post-approval requirements for State significant developments October 2015)*, 14 consultation letters were sent to the key agencies and other stakeholders for the Project. These consultation letters and the five responses received are reproduced below and on the following pages.

Consultation letters (14 letters sent by email)

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
PO Box 662 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

18th February 2022

Katrina O'Reilly
Team Leader Compliance
NSW Department of Planning and Environment
Level 2, 84 Crown Street
Wollongong NSW 2500

By email: katrina.oreilly@planning.nsw.gov.au

Dear Katrina O'Reilly

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

The scope of this audit in March 2022 will:

- include all relevant conditions specified in:
 - consolidated Project Approval Number 07_0018 (Mod 9) as approved on 23rd December 2021 by the delegate of the NSW Minister for Planning,
 - Environment Protection Licence Number 12559 as at 4th October 2019, issued by the NSW Environment Protection Authority, and
 - Consolidated Mining Lease Number 7 as renewed on 17th January 2007; and
- cover the period from February 2019 to March 2022.

Schedule 4, Condition 7(b) of Project Approval 07_0018 (Mod 9) requires that the audit must include consultation with the key agencies (note there is no Community Consultative Committee for the project) and may include consultation with other stakeholders, e.g. relevant statutory authorities or community groups. In compliance with this condition, we request your agency to provide any feedback regarding the environmental operations and/or environmental management of the BHOP Rasp Mine and any key issues which your agency would like us to consider within the scope of the audit.

Integrated Environmental Systems Pty Ltd will conduct the on-site component of the audit from 7th to 11th March 2022.

If you wish to respond to this request please email your written response to: hammer@cdi.com.au, before 7th March 2022.

Your written response (if any) and this letter will be included as an appendix in the final audit report.

Yours sincerely,
INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD



Kurt Hammerschmid M.Sc.
Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
PO Box 662 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

18th February 2022

Christine Fawcett
Manager Environmental Operations
Department of Regional NSW,
Mining, Exploration and Geoscience
516 High Street
Maitland NSW 2320

By email: christine.fawcett@planning.nsw.gov.au

Dear Christine Fawcett

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD



Kurt Hammerschmid M.Sc.
Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
PO Box 662 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

18th February 2022

Jason Price
Acting Unit Head – Regulatory Operations Regional
NSW Environment Protection Authority
48-52 Wingewarra Street
Dubbo NSW 2830

By email: jriverina.farwest@epa.nsw.gov.au

Dear Jason Price

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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Yours sincerely,
INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD



Kurt Hammerschmid M.Sc.
Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
PO Box 662 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

18th February 2022

Ben Gazi
Inspector Environment – Compliance Operations
Department of Regional NSW,
Resources Regulator
516 High Street
Maitland NSW 2320

By email: ben.gazi@planning.nsw.gov.au

Dear Ben Gazi

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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Kurt Hammerschmid M.Sc.
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PO Box 662 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

18th February 2022

Shaun Barker
Group Leader, Natural Resources and Property Management
Crown Land – NSW DPIE
45 Wingewarra Street
Dubbo NSW 2830

By email: shaun.barker@crowland.nsw.gov.au

Dear Shaun Barker

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

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Schedule 4, Condition 7(b) of Project Approval 07_0018 (Mod 9) requires that the audit must include consultation with the key agencies (note there is no Community Consultative Committee for the project) and may include consultation with other stakeholders, e.g. relevant statutory authorities or community groups. In compliance with this condition, we request your agency to provide any feedback regarding the environmental operations and/or environmental management of the BHOP Rasp Mine and any key issues which your agency would like us to consider within the scope of the audit.

Integrated Environmental Systems Pty Ltd will conduct the on-site component of the audit from 7th to 11th March 2022.

If you wish to respond to this request please email your written response to: hammer@cdi.com.au, before 7th March 2022.

Your written response (if any) and this letter will be included as an appendix in the final audit report.

Yours sincerely,
INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD



Kurt Hammerschmid M.Sc.
Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
PO Box 662 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

18th February 2022

Tim Baker
Senior Water Regulation Officer
NSW DPIE Water, and Natural Resources Access Regulator
Cnr Hampden and Cobra Streets
Dubbo NSW 2830

By email: tim.baker@dpi.nsw.gov.au

Dear Tim Baker

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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Kurt Hammerschmid M.Sc.
Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
PO Box 862 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

18th February 2022

Tempe Beaven
Senior Heritage Assessment Officer
Heritage NSW
Level 6, 10 Valentine Avenue
Parramatta NSW 2150

By email: tempe.beaven@environment.nsw.gov.au

Dear Tempe Beaven

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD



Kurt Hammerschmid M.Sc.
Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
PO Box 862 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

18th February 2022

Heather Middleton
Manager Mining Impacts
Dams Safety NSW
4 Parramatta Square, 12 Darcy Street
Parramatta NSW 2150

By email: info@damsafety.nsw.gov.au

Dear Heather Middleton

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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Kurt Hammerschmid M.Sc.
Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
PO Box 862 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

18th February 2022

Michael Todd
Senior Conservation Planning Officer
Biodiversity and Conservation Division,
NSW DPIE
512 Dean Street
Albury NSW 2640

By email: rog.southwest@environment.nsw.gov.au

Dear Michael Todd

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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Yours sincerely,
INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD



Kurt Hammerschmid M.Sc.
Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
PO Box 662 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

16th February 2022

Howard Orr
Team Leader
Transport for NSW
Level 1, 51-55 Currajong Street
Parkes NSW 2870

By email: development.western@transport.nsw.gov.au

Dear Howard Orr

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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Yours sincerely,
INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD



Kurt Hammerschmid M.Sc.
Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
PO Box 662 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

16th February 2022

Tracey Stephens
Acting Manager Planning, Development and Compliance
Broken Hill City Council
240 Blende Street
Broken Hill NSW 2880

By email: tracey.stephens@brokenhill.nsw.gov.au

Dear Tracey Stephens

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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Yours sincerely,
INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD



Kurt Hammerschmid M.Sc.
Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
PO Box 662 Paddington NSW 2021 Australia
Telephone: 0411 724 476 Email: hammer@cdi.com.au

16th February 2022

Leanne Hastwell
Manager Community Health
Far West Local Health District (NSW Health)
Broken Hill Community Health Centre
1st Floor, 2-4 Sulphide Street
Broken Hill NSW 2880

By email: leanne.hastwell@health.nsw.gov.au

Dear Leanne Hastwell

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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Yours sincerely,
INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD



Kurt Hammerschmid M.Sc.
Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
 PO Box 602 Paddington NSW 2021 Australia
 Telephone: 0411 724 476 Email: hammer@cdi.com.au

18th February 2022

Kaylene Kemp
 Executive Manager, Primary Health Care Service
 Maari Ma Health
 439-443 Argent Street
 Broken Hill NSW 2880

By email: info@maanima.com.au

Dear Kaylene Kemp

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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Integrated Environmental Systems Pty Ltd will conduct the on-site component of the audit from 7th to 11th March 2022.

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Yours sincerely,
INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD



Kurt Hammerschmid M.Sc.
 Director and Principal Environmental Auditor

INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD

A.B.N. 44 079 213 988
 PO Box 602 Paddington NSW 2021 Australia
 Telephone: 0411 724 476 Email: hammer@cdi.com.au

18th February 2022

Kathryn Graham
 Chairperson, Steering Committee
 Broken Hill Environmental Lead Program
 240 Blende Street
 Broken Hill NSW 2880

By email: kathryn.graham@brokenhill.nsw.gov.au

Dear Kathryn Graham

Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit

Integrated Environmental Systems Pty Ltd has been engaged by the proponent, Broken Hill Operations Pty Limited (a wholly owned subsidiary of CBH Resources Limited) to undertake an Independent Environmental Audit (audit) of the BHOP Rasp Mine as required by Project Approval 07_0018 (Mod 9).

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Yours sincerely,
INTEGRATED ENVIRONMENTAL SYSTEMS PTY LTD



Kurt Hammerschmid M.Sc.
 Director and Principal Environmental Auditor

Agency and other stakeholder responses to audit consultation letters

Katrina O'Reilly

to me, Kurt ▾

23 Feb 2022, 12:02 (1 day ago) ☆ ↶ ⋮

Good morning Adam.

Thankyou for your letter requesting consultation. The Department would like focus on areas such as:

- all associated requirements triggered by/and or linked to recent MODs;
- implementation and monitoring of all management plans;
- dust/noise/blasting management/monitoring,
- water management;
- rehabilitation progress/monitoring;
- progress on heritage plan/issues,
- lead management and progress on associated health conditions (such as Contribution to Public Blood lead Monitoring & Public Education and updated health risk assessment); and
- complaints register and management.

Other key stakeholder groups to be consulted include the Lead Reference Group, NSW Health (Western NSW Local Health District), Council and EPA.

Regards

Katrina

Katrina O'Reilly

Team Leader Compliance

Planning & Assessment | Department of Planning and Environment
T 02 6229 7909 | M 0429 400261 | E katrina.oreilly@planning.nsw.gov.au
PO Box 5475 | Level 1 11 Farrer Place Queanbeyan NSW 2620
www.dpie.nsw.gov.au



The Department of Planning 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: Tansley Hill <Tansley.Hill@epa.nsw.gov.au>
Sent: Friday, 4 March 2022 10:49 AM
To: hammer@cdi.com.au
Cc: Joel Sulicich <joelsulicich@cbhresources.com.au>
Subject: Broken Hill Operations (BHOP) Rasp Mine – Independent Environmental Audit - EPL 12559

Good morning, I have liaised with BHOP's Joel Sulicich regarding this matter and I am content with scope of audit.

Hence, the EPA has no further comment.

Many thanks.

Regards,

Tansley Hill

Operations Officer

Regulatory Operations

NSW Environment Protection Authority

D 03 50218919 | M 0427437905

Please send all correspondence to info@epa.nsw.gov.au for recording and appropriate delegation.

Please report pollution and environmental incidents via [131 555](tel:131555) or +61 2 9995 5555.

[Redacted signature box]

www.epa.nsw.gov.au @NSW_EPA



Department of Planning and Environment

Mr Kurt Hammerschmid
Director and Principal Environmental Auditor
Integrated Environmental Systems
PADDINGTON NSW 2021

Our ref: DOC22/151689
Senders ref: BHOP Rasp Mine

Via email: hammer@cdi.com.au

4 March 2022

Dear Mr Hammerschmid

Subject: Broken Hill Operations Rasp Mine - Independent Environmental Audit 2022

Thank you for your letter dated 18 February 2022 about the Broken Hill Operations (BHOP) Rasp Mine - Independent Environmental Audit, seeking comments from the Biodiversity and Conservation Division (BCD) of the Department of Planning and Environment.

BCD has statutory responsibilities relating to biodiversity (including threatened species, populations, ecological communities, or their habitats) and flooding. Along with assessing against the approval conditions we would like to draw your attention to the following item:

Bat Occupancy in Old Mine Workings

In comments for Modification 6 (MP07-0018 MOD 6) BCD recommended that the old mine workings should be assessed for bat occupancy using ultrasonic audio recorders, before they are accessed. We recommend that the audit confirm that if the old workings have been accessed that they have been assessed in this way.

If you have any questions about this advice, please contact Michael Todd, Senior Conservation Planning Officer, via rog.southwest@environment.nsw.gov.au or 03 5021 8915.

Yours sincerely

A handwritten signature in black ink, appearing to read "A Fisher".

Andrew Fisher
Senior Team Leader Planning
South West Branch
Biodiversity and Conservation Division
Department of Planning and Environment



AREQ0025751

Mr Kurt Hammerschmid
 Integrated Environmental Systems Pty Ltd
 PO Box 662
 Paddington NSW 2021
 By email: hammer@cdi.com.au

Dear Mr Hammerschmid

Subject: Broken Hill Operations Rasp Mine – Independent Environmental Audit

Thank you for your email dated 18 February 2022 requesting consultation on the independent audit to be undertaken of the Rasp Mine which is covered by the following mining leases:

- CML7 (1973)
- MPL183 (1973)
- MPL184 (1973)
- MPL185 (1973)
- MPL186 (1973)

The Resources Regulator requires that the following issues be addressed in independent environmental audits undertaken in accordance with a planning consent condition.

- Review relevant mining leases and exploration licences as agreed with Resources Regulator.
- Undertake an assessment of compliance against the conditions of title related to environmental management.
- Verify that there is a current Mining Operations Plan (MOP) in place and it has been approved by the Regulator – review compliance against any conditions of approval of the MOP.
- Undertake a critical review of the MOP, including an assessment of its compatibility with the description of operations contained in the planning approval. In particular:
 - Review the rehabilitation strategy as outlined in the MOP to determine if it is consistent with the Project Approval in terms of progressive rehabilitation schedule; and proposed final land use(s).
 - Review the rehabilitation objectives and completion criteria as outlined in the MOP to determine if they have been developed in accordance with the proposed final land use(s) as outlined in the Project Approval.

NSW Resources Regulator
 516 High Street Maitland NSW 2320 | PO Box 344 HRMC NSW 2310 | Tel: 1300 814 609 |
resourcesregulator.nsw.gov.au

2

- Review the development and implementation of any rehabilitation monitoring programs to assess performance against the nominated objectives and completion criteria – verified by reviewing monitoring reports and rehabilitation inspection records.
- Determine if a rehabilitation care and maintenance program has been developed and implemented based on the outcomes of monitoring program – verified by reviewing Annual Rehabilitation Programs or similar documentation.
- Confirm that mining operations are being conducted in accordance with the approved MOP (production, mining sequence etc.), including within the designated MOP approval boundary – to be verified by site plans and site inspection.
- Confirm that rehabilitation progress is consistent with the approved MOP as verified by site plans and a site inspection. This should include an evaluation against rehabilitation targets and whether the final landform is being developed in accordance with conceptual final landform in the Project Approval.
- Based on a visual inspection, determine if there are any rehabilitation areas that appear to have failed or that have incurred an issue that may result in a delay in achieving the successful rehabilitation outcomes.

In addition to the above, the audit should note observations where rehabilitation procedures, practices and outcomes represent best industry practice.

It would be appreciated if a copy of the final audit report could be sent to the Regulator at nswresourcesregulator@service-now.com upon completion of the audit.

Yours sincerely

Jenny Ehmsen
 Principal Compliance Auditor

16 March 2022

Broken Hill Operations Rasp Mine Environmental Audit

HO Howard Orr <Howard.Orr@transport.nsw.gov.au>
To: 'hammer@cdi.com.au'
Cc: Development West

Reply Reply All Forward Thu 17/03/2022 9:30 AM

Dear Kurt

Apologies for the delay in responding. A TfNSW's consideration that may potentially fit within your audit relate to the monitoring of operations in relation to the potential impact on South Road.

BHOP was required to enter a Deed of Agreement with the then RMS (now TfNSW) for the protection of South Road. This incorporated the requirement to implement Ground Control Management Plan, a Blasting Management Plan and survey controls demonstrating how the development would be carried out in a manner that does not adversely impact on South Road.

Regards.

Howard Orr
Development Services Team Leader
Community and Place
West Region
Transport for NSW

T 0268611530 M 0417125741 E howard.orr@transport.nsw.com.au

transport.nsw.gov.au

Level 1 51-55 Currajong Street
Parkes NSW 2870

I work flexibly. Unless it suits you, I don't expect you to read or respond to my emails outside of your normal work hours.



This email is intended only for the addressee and may contain confidential information. If you receive this email in error please delete it and any attachments and notify the sender immediately by reply email. Transport for NSW takes all care to ensure that attachments are free from viruses or other defects. Transport for NSW assume no liability for any loss, damage or other consequences which may arise from opening or using an attachment.

Consider the environment. Please don't print this e-mail unless really necessary.

OFFICIAL

Appendix 3 – Actions taken by BHOP in response to the previous independent environmental audit in February 2019

The key overall findings from the previous (February 2019) independent environmental audit of the BHOP Rasp Mine were (reproduced in italics below):

- *It is the Lead Auditor's opinion that at the time of this February 2019 audit, BHOP has implemented all reasonable and feasible measures to prevent and/or minimise material harm to the environment that may result from the construction, operation or rehabilitation of the project.*
- *BHOP does not have a cohesive system under ISO14001 Environmental Management System or an Integrated Management System, but relies on an Environmental Management Strategy which provides context for the formal system(s) and processes utilised by the operation.*
- *No extensive systematic (i.e. widespread) issues of environmental concern were observed during field inspections conducted during this February 2019 audit.*
- *The environmental performance and operational control demonstrated by BHOP Rasp Mine in the field was observed to be maintained to high standards.*
- *A total of 174 conditions across the Project Approval, EPL and CML7 were audited. As recorded in Table 1 of this audit report, this audit identified 124 'compliant' findings, 4 'not verified' findings, 28 'non-compliant' findings (consisting of 28 'low' risk level, 0 'medium' risk level, 0 'high' risk level), 7 'administrative non-compliance' findings, 4 'not triggered' findings, and 7 'notes'.*
- *BHOP was compliant with 124 of the 170 applicable conditions (i.e. all conditions except those which were 'not triggered').*
- *BHOP's level of compliance with the applicable conditions (i.e. all conditions except those which were 'not triggered') in each instrument was as follows:*
 - *BHOP was compliant with 48 of the 67 applicable Project Approval conditions;*
 - *BHOP was compliant with 52 of the 75 applicable EPL conditions;*
 - *BHOP was compliant with 24 of the 28 applicable CML7 conditions.*
- *This audit report includes 102 observations. Observations are provided for BHOP's consideration to improve levels of compliance and enable continual improvement to be demonstrated in statutory compliance, environmental management and environmental practices across the operation.*

The 2019 audit report (dated 18 April 2019) is available on the CBH website. BHOP noted its responses (including actions) to the various identified non-compliances and observations in the final column of Table 2 in the 2019 audit report.

An indication that BHOP has responded to the identified non-compliances and observations in the 2019 audit report is the limited repetition of the same non-compliances and observations in this March 2022 audit. However, during this March 2022 audit there was no evidence of formal tracking and close-out (i.e. within INX InControl) of the 35 non-compliances and 102 observations identified in the 2019 audit report. As of March 2022, it could not be verified whether BHOP had implemented all of the actions as noted in the final column of Table 2 in the 2019 audit report.

Appendix 4 – Incidents and complaints and BHOP’s performance in relation to response and management of incidents and complaints

During the audit period (16 February 2019 to 11 March 2022) the majority of incidents and complaints which BHOP notified to the DPE under Project Approval 07_0018 (Mod 9) as at 23 December 2021 and/or the EPA under Environment Protection Licence Number 12559 as at 4 October 2019, appeared to relate to one of the following reasons:

- incidents relating to failure of monitoring equipment; or
- complaints arising from blasting operations.

Publicly available information regarding environment-related incidents and complaints is included in BHOP’s Annual Environmental Management Reports (AEMRs), Annual Returns and Register of Complaints.

Annual Environmental Management Reports (AEMRs)

As of March 2022, the 2021 AEMR has not yet been submitted to the DPE (due date for submission is the end of June 2022).

The 2021 AEMR (reporting period from 1 January 2021 to 31 December 2021) identified one reportable incident, namely: the pit slope seepage from Blackwoods Pit (TSF2).

The 2020 AEMR (reporting period from 1 January 2020 to 31 December 2020) identified two reportable incidents, namely: Silver Tank HVAS units software failure; and emissions exceedance at the Crusher Baghouse.

The 2019 AEMR (reporting period from 1 January 2019 to 31 December 2019) identified two reportable incidents, namely: asbestos material on Block 5; and incorrectly sourced material for TSF2 Embankment 2 works.

Annual Returns

The November 2021 Annual Return (reporting period from 2 November 2020 to 1 November 2021) indicated two non-compliances for EPL conditions L2.1 and O2.1. Both non-compliances were described on the EPA website as: “Results from emissions testing returned exceeding values for TSP and Type 1 and 2 substances as a result of baghouse bags containing holes.”

The November 2020 Annual Return (reporting period from 2 November 2019 to 1 November 2020) indicated one non-compliance for EPL condition M2.2. This non-compliance was described on the EPA website as: “High Volume Air Samplers Monitoring Points 10 and 11 failed to monitor as scheduled.”

The November 2019 Annual Return (reporting period from 2 November 2018 to 1 November 2019) indicated four non-compliances for EPL conditions M2.1, M4.1, L5.2 and M7.1. These non-compliances were respectively described on the EPA website as: “The dust gauge at Monitoring Point 3 did not monitor at the frequency required.” (condition M2.1); “Sigma theta was not being monitored even though it was listed as a required parameter in Column 1 of the table in condition M4.1.” (condition M4.1); “Blast levels of Block 7 blasts recorded at compliance monitors exceeded the 3mm/s limit by more than 5%.” (condition L5.2); and “Failure to monitor overpressure and ground vibration for all blasts at locations specified in condition M7.1.” (condition M7.1).

It is considered that not all of the non-compliances described in the Annual Returns are ‘incidents’. For example, a failure to monitor as scheduled, which was regarded as a non-compliance with EPL condition M2.2 in the November 2020 Annual Return, is not an ‘incident’.

Register of Complaints

The number of external complaints received by BHOP has trended downwards during the audit period. According to BHOP’s Register of Complaints, on the CBH website:

- In the first two months of 2022, BHOP received one external complaint (relating to blast vibration).
- In 2021, BHOP received six external complaints (four relating to blast vibration, one relating to alleged surface mining, one relating to use of water cart for dust suppression).
- In 2020, BHOP received 11 external complaints (five relating to blast vibration, six relating to noise).
- In 2019, BHOP received 24 external complaints (22 relating to blast vibration, two relating to dust).

Response and management of environment-related incidents and complaints

According to Section E of the Annual Returns submitted to the EPA during the audit period, BHOP’s Pollution Incident Response Management Plan (Doc ID: BHO-ENV-PLN-002) was tested on 3 July 2019, 29 July 2020, and 28 October 2021.