<u>Cullen Valley Mine (CVM) - Independent Environmental Audit 2021</u> <u>Response to Recommendations</u>

	IEA Recommendations	1						
Condition Reference No #	Condition Detail	Condition Type	Risk Level of Non- compliance	Auditor Comments and Recommendations	CVM Response	Target Due Date	Completion Status	Comments - Status Update
Development Cor Sch 3 Cond 1	The Applicant shall implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the development.	mmendations Administrative	Administrative	The applicant has generally implemented practicable measures to minimise harm to the environment. However, several notices have been issued over the audit period. The applicant should implement reasonable and practical measures to investigate anomalies in the readings even if no harm has been done to the environment.	CVM accepts the recommendation. During the audit period 2016 - 2021, there was no dedicated environmental manger onsite to manage the performance and delivery of consultants undertakening monitoring and associated reporting and followup. CVM has directly employed a full time environmental manager onsite to manage these items toward establishing and maintaining compliance.	28-Feb-22	Completed	
Sch 4 Cond 25	The Applicant shall monitor the air quality impacts of the development at representative locations around the site, using the specified averaging period, frequency, and sampling method in Table 12 to the satisfaction of DEC and the Director-General.	Specific environmental conditions	Administrative	2018 AEMR – A power outage of the HVAS unit caused by thunderstorm resulted in a failure to monitor air quality in accordance with this condition. 2019 AEMR - The 30+/- 2 day monitoring period for depositional dust was exceeded on one occasion (dec). 2020 AEMR - A mechanical fault with the HVAS unit resulted in a failure to monitor air quality in on two occasions. This item has no defined recommendation.	Power outages and mechancial failures are generally beyond control of site personnel, neverthless a dedicated environmental manger is now employed onsite to manage the operation and performance of of monitoring equipment and consultant technicians engaged to conduct monitoring toward establishing and maintaining compliance.		Completed	
Sch 4 Cond 27	The Applicant shall not cause or permit the emission of offensive odour beyond the boundary of the site in accordance with section 129 of the Protection of the Environment Operations Act 1997.	Specific environmental conditions	Low	There have been odour complaints in every year of the audit period regarding subsurface heating. 2016- 4 complaints 2017- 2 complaints 2018- 3 complaints 2019- 2 complaints 2020- 2 complaints 2021- 1 complaint Continue to monitor and implement current subsurface management plan. Consult and review if the situation worsens.	CVM accepts the recommendation. During the audit period, CVM addressed the complaints in consultation with the complainants, whilst undertaking physical inspections and remediation activties on areas found to be the source of odours which are associated with sub-surface heatings on the CVM site. CVM are presently in the process of preparing the new Rehabilitation Management Plans which replace the MOP from 2 July 2022. The RMP will address the sub-surface heating at CVM. CVM has since (Feb 2022) consulted closely with the Resources Regulator to add further measures to address the heating issues at CVM, including trial irrigation and compaction methods to help extingusih / manage heatings, and continued treatment as per the approved methods in addition to further capping / sealing of heating areas with overbruden / rehabilitation materials as remnant mining occurs at CVM. These items will aslo be captrued in the RMP.	2-Jul-22	Open	
Sch 4 Cond 31a	describe the immediate and long-term compensatory habitat proposal, and demonstrate how this proposal would be integrated with the proposed rehabilitation of the site and surrounding areas of remnant vegetation;	Specific environmental conditions	Administrative	An explicit plan covering expected short, medium and long-term should be summarised in AEMR.	CVM will provide an account in the AR of the Annual Biodiversity Monitoring Report outcomes which includes assessment of the Compensatory Habitat, and further, consult with its ecologists toward and required revision if necessary of the management plan which are currently undergoing agency consultation. CVM mananement plans are curently undergoing agency consultation, and requried changes will be adopted in the appropriate plans.		Open	
Sch 4 Cond 31f	set completion criteria for the compensatory habitat proposal.	Specific environmental conditions	Administrative	No completion criteria were found for compensatory habitat. The criteria should be developed and reported in AEMR Criteria should be developed in in tandem with short, medium and long-term goals.	CVM will provide an account in the AR of the Annual Biodiversity Monitoring Report outcomes which includes assessment of the Compensatory Habitat, and further, consult with its ecologists toward and required revision if necessary of the management plan which are currently undergoing agency consultation. CVM mananement plans are curently undergoing agency consultation, and requried changes will be adopted in the appropriate plans.		Open	

Within 2 years of the date of this consent, and every 5 years thereafter, unless the Director-General directs otherwise, the Applicant shall commission, and pay the full cost of, an Independent Audit of the compensatory habitat proposal. This audit must:be conducted by a suitably qualified, experienced, and independent person whose appointment has been approved by the Director-General;	Specific environmental conditions	Administrative	Previous audit was completed on the 25 Nov 2016 by SLR Consulting Australia. An extension date was granted for the this audit to March 2022. CARAS was endorsed on 15 December 2021 to conduct the current audit period. Date of this audit was 2 February 2022. There item has no defined recommendtion.	Castlereagh Coal (CVM) wrote to DPIE on the 15th of December 2021 requesting an extension for completion of the Indepdendent Environmental Audit for CVM stating reassons as to the request. A subsequent extension was granted until 18 March 2022.	18-Mar-22	Open	
For each monitoring/discharge point, the Applicant shall monitor (by sampling and obtaining results by analysis) the concentration of each pollutant in Table 15, using the specified units of measure, frequency, and sampling method.	Specific environmental conditions	Administrative	Monthly water quality monitoring is carried out at discharge points. Monitoring in 2019 and 2020 were affected due to bushfires. No discharge events occurred from 2016 to 2020. This item has no defined recommendation.	CVM employs an external organisation to conduct environmental sampling associated with its monitoring program. During the well documted extreme busfire condtions in late 2019 / early 2020 directly impacted environmental monitoring preventing access to monitoring sites.	NA	Completed	
Within 6 months of the date of this consent, the Applicant shall prepare (and then implement) a Site Water Management Plan for the development, in consultation with DEC and DPI, and to the satisfaction of the Director-General. This plan must include: (a) the predicted site water usage; (b) a Surface Water Monitoring Program; and (c) an Erosion and Sediment Control Plan.		Administrative	In 2017 a revised WMP has been sent to DPE for approval, however this is still pending. Monitoring and usage is outlined in AEMRs however they are very brief. Surface Water Monitoring program and Erosion and Sediment control plan are in place. This item has no defined recommendation.	CVM submitted an entire suite of new management plans to DPIE (and other agencies) for agency stakeholder consultation in February 2022 including a Site Water Management Plan. Additional plans / information includes predicted site water usage, surface water monitoring program and a standalone erosion and sediment control plan. CVM will work with agencies to finalise approval of these plans toward the restart of mining remnant coal rsources at CVM in early 2022.	30-Jun-22	Open	
The Surface Water Monitoring Program shall include: (a) detailed baseline data on surface water flows and quality; (b) surface water impact assessment criteria; (c) a program to monitor surface water flows and quality; and (d) a program to monitor the effectiveness of the Erosion and Sediment Control Plan.	Specific environmental conditions	Administrative	There is a Surface Water Monitoring Program in the EMP. However, it does not provide much detail on a) and b). Additional information is required. In 2017, a standalone water management plan that included a surface water monitoring program was issued to DPE for approval.	CVM accepts this recommendtion. CVM submitted an entire suite of new management plans to DPIE (and other agencies) for agency stakeholder consultation in February 2022 including a Site Water Management Plan which includes a detailed surface water monitoring program.CVM will work with agencies to finalise approval of these plans toward the restart of mining remnant coal resources at CVM in early 2022.	30-Jun-22	Open	
The Erosion and Sediment Control Plan shall: (a) comply with the requirements of the Department of Housing's Managing Urban Stormwater: Soils and Construction manual; (b) identify activities that could cause soil erosion or discharge sediment or water pollutants from the site; (c) describe the location, function and capacity of all erosion and sediment control structures, and nominate which, if any, of these structures would be used as water sources for the development; and (d) describe the measures to minimise soil erosion and the potential migration of sediments to downstream waters.		Administrative	There is no discussion of compliance with requirements set by Department of Housing's Managing Urban Stormwater. b) Activities that cause erosion are identified in Section 5. c) The locations of structures are outlined but not described in detail. d) Measure to minimise soil erosion are covered in Section 5. This item has no defined recommendation.	CVM submitted an entire suite of new management plans to DPIE (and other agencies) for agency stakeholder consultation in February 2022 including an Erosion and Sediment Control Plan which includes reference to the Blue Book (Landcom), 2004 in Sections 2.4 and 2.5, Structures in Section 2.4 and measures to minimise soils erosion in Sections 2.4 and 2.6. CVM will work with agencies to finalise approval of these plans toward the restart of mining remnant coal rsources at CVM in early 2022.	30-Jun-22	Open	

Sch 4 Cond 39 The Applicant shall not cause, permit or allow any waste generated unside the mine for storage, treatment, processing, responses a permitted by a DEC lienne. Note: This condition only applies to the storage, treatment, processing, responses a leaner under the Protection of the Environment Operations Act 1997. Sch 6 Cond 8 The Applicant shall ensure that there is a Community Consultative Committee to oversee the environmental Environment of the Committee shall: (a) be comprised of: 1 the Applicant shall ensure that there is a Community Consultative Sommer and the mine, exceeded the mine of the Applicant, including the person reponsible for environmental than an agreement at the mine; 1 the Applicant shall ensure that there is a Community Consultative Committee to oversee the environmental performance of the Month of the Applicant, including the person reponsible for environmental annagement at the mine; 1 the Applicant shall ensure that there is a Community on the Applicant, including the person reponsible for environmental annagement at the mine; 1 the Applicant shall ensure that there is a Community, whose appointment has been approved by the Director-General in consultation With the Council; (b) be chaired by an independent person whose appointment has been approved by the Director-General in consultation With the Council; (c) meet at least twice a year; and	
onditions DFC requires an approval and modification of current, processing, reprocessing, or processing, reprocessing, or sposs, and a secure as expressly permitted by a DEC Licence. Note: This condition only applies to the storage, treatment, processing, a region of the Environment Operations Act 1997. Sch 6 Cond 8 The Applicant shall ensure that there is a Community Consultative Committee to oversee the environmental performance of the development, and the concept and a secure of the community of the committee to oversee the environmental performance of the development. This committee shall: a) be comprised of: 2 representative from Council; and 4 representatives from the Applicant, including the person responsible for environmental management at the mine; 3 representatives from the Applicant, including the person responsible for environmental management at the mine; 4 representatives from the place and monitoring, Auditing the Decetor-General in consultatives from the document, whose appointment has been approved by the Director-General: (b) be chaired by an independent person whose appointment has been endorsed by the Director-General: (c)	
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whose appointment has been endorsed by the Director-General;	
Director-General;	
(c) meet at least twice a year; and	
(d) review and provide advice on the	
environmental performance of the	
development, including any environmental	
management plans, monitoring results, audit	
reports, or complaints.	
Environment Protection Licence EPL 10341 Recommendations	
L4.4 For the purpose of condition L4.3: Limit Conditions Meteorological data was sourced from the Bureau of As described, a new met station was installed at the CVM site in 2018. NA Complete	
a) Data recorded by the meteorological station Meteorology's Bathurst weather station in 2016 and Monitoring data from that site now informs the CVM Met requirements.	
as EPA Licence Point 5 must be 2017. This station is located 45km away and unlikely to	
used to determine meteorological conditions; be representative of onsite weather conditions.	
and b) Temperature inversion conditions However, a new monitoring system was installed on site	
(stability category) are to be determined by the sigma-theta method referred to in Part E4 Administrative in 2018 and carries out the requirements of this condition.	
the sigma-theta method referred to in Part E4 condition. of Appendix E to the NSW Industrial	
Noise Policy.	
L6.1 No condition of this licence identifies a Limit Conditions Low Complaints regarding odours has been made every year CVM accepts the recommendation. Ongoing Open	This item also relates to Sch 4 Cond 27 above.
potentially offensive odour for the purposes of Ouring the audit period, CVM addressed the complaints in consultation with	
section 129 of the Protection of the the complainants, whilst undertaking physical inspections and remediation	
Environment Operations Act 1997. Note: Section 129 of the Protection of the with sub-surface heatings on the CVM site. Following issue of a 240 Notice	
Note: Section 129 of the Protection of the Environment Operations Act 1997, provides With sub-surface heatings on the CVM site. Following issue of a 240 Notice by the Resources Regulator regading heatings (the cause of the adours),	
that the licensee must not cause or permit the CVM responded with an updated MOP and Plan of Works which was	
emission of any offensive odour from the approved. CVM has since (Feb 2022) consulted closely with the Resources	
premises but provides a defence if the Regulator to add further measures to address the heating issues at CVM,	
emission is identified in the relevant including trial irrigation and compaction methods to help extingusih /	
environment protection licence as a manage heatings, and continued treatment as per the approved methods in	
potentially offensive odour and the odour was addition to further capping / sealing of heating areas with overbruden /	
emitted in accordance with the conditions of a rehabilitation materials as remnant mining occurs at CVM.	
licence directed at minimising odour.	
Generic Recommendations Section 8 Audit Report	

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8.1	Update all mgt plans	CARAS recommend that after a prolonged period of care and maintenance, all management plans should be reviewed and updated prior to recommencement of active mining.	CVM accepts this recommendation. CVM submitted an entire suite of new management plans to DPIE (and other agencies) for agency stakeholder consultation in February 2022. CVM will work with agencies to finalise approval of these plans toward the restart of mining remnant coal rsources at CVM in early 2022.	30/06/2022	Open	
8.2	Sub-Surface Heating Response Management Plan	The Sub-Surface Heating Response Management Plan should be included in the updated management plans for the operation of CVM. This will address the concerns in regard to nuisance odour from the Site. Our recommendation is that this plan will be implemented as part of the mine recommencement works	CVM are presently in the process of preparing the new Rehabilitation Management Plans which replace the MOP from 2 July 2022. The RMP will address the sub-surface heating at CVM. CVM has since (Feb 2022) consulted closely with the Resources Regulator to add further measures to address the heating issues at CVM, including trial irrigation and compaction methods to help extingusih / manage heatings, and continued treatment as per the approved methods in addition to further capping / sealing of heating areas with overbruden / rehabilitation materials as remnant mining occurs at CVM. These items will aslo be captrued in the RMP.		Open	
8.3	Administrative Non-compliance	The Auditor identified nine (9) administrative non-compliance events, where CVM failed to comply with the consent conditions for the reasons as discussed in Section 7 of this report. Our recommendation is that CVM should engage a dedicated Environmental Manager ('EM'), prior to recommencing of extractive mining operations to ensure the implementation of all practicable measures to prevent and/or minimise any harm that may result from the construction, operation, or rehabilitation of the development3	environmental manager onsite to manage these items toward establishing and maintaining compliance.	28/02/2022	Closed	
8.4	Compensatory Habitat	Development Consent DA 200-5-2003 Non-compliance Recommendations	Issue addressed in recommendations and response in Development Consent DA 200-5-2003 Non-compliance Recommendations section above.	NA	NA	
8.5	Site Boundaries and Aboriginal Sites	The identification of the boundaries to Compensatory Habitat Areas and the locations of the Aboriginal Archaeology Sites (referenced in DA: Condition 55 and 56) may have become enveloped in regrowth during the care and maintence period. Our recommendation is that marking, and signage should be installed to clearly identify these nominated locations.		30/06/2022	Open	