

WCL Wongawilli Colliery

Response to Independent Environmental Audit

16 April 2014

Reference	Summary of finding (non-compliance)	Recommendation	WCL Response	Delivery Date
Project Approval – Sch. 2, Condition 6	With respect to train movements at night, where night time is defined as 11.00 pm to 7.00 am by the project approval, the auditor noted instances where a train arrives at site prior to 7.00 am and combined with a train arrival and departure after 11.00 pm results in three (3) train movements at night and is a breach of the two (2) train movements a night restriction during normal operations.	<p>Wongawilli Coal to include a train movement summary (additional column) as part of its web site based report for monitoring coal transport so as to facilitate interpretation and compliance assessment.</p> <p>Wongawilli Coal to include a compliance statement as part of its web site based report for monitoring coal transport. The Compliance statement should address the train movement criteria as specified by Sch.2, Condition 6 and the quantity criteria for ROM coal.</p> <p>Wongawilli Coal to implement a logistical control to ensure train movements comply with the criteria specified by Sch. 2, Condition 6.</p>	<p>Train movement monthly summary report, including a compliance summary against the train movement criteria in Sch.2 Condition 6, has been developed and will be available on website and regularly updated once the WCL website has been developed and is online.</p> <p>The logistical control for ensuring compliance with train movement restrictions already exists. The haulage contractor schedules trains to attend site within the allowable train movement times outlined in the approval.</p>	<p>31/5/14</p> <p>Complete</p>
Project Approval – Sch.2, Condition 7	Longwall change-out notification was not issued to Community Consultative Committee (CCC).	Ensure future longwall change-out notifications are also sent to the CCC where longwall change-outs involve extended hours of operations as detailed in Sch.2, Condition 7(b).	<p>A new section of the WW CCC Agenda has been added to Notify the CCC members of planned longwall change-outs and possible extended operational hours</p> <p>A Notification of extended stockpile operational hours will also be placed on the Website by the logistics manager as required.</p>	<p>Complete</p> <p>31/5/14</p>

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Project Approval – Sch.4, Condition 1	Wongawilli Coal advised that the current noise monitoring program is complaint driven and there is no established noise monitoring program. This arrangement prevents an assessment of compliance against the noise criteria and goals detailed in the project approval.	<p>Finalise and gain DP&I approval of the Noise Audit Report.</p> <p>Finalise and gain DP&I approval of the Noise Management Plan.</p> <p>Implement Noise Audit recommendations.</p> <p>Implement the noise monitoring plan as detailed in the updated and DP&I approved Noise Management Plan.</p>	<p>The Noise Audit was accepted by the EPA as adequate on 6 January 2014 and approved by DPI on 22 January 2014</p> <p>Wilkinson Murray conducted onsite noise testing with attended and unattended loggers in Feb and March. They have the results and are currently developing draft noise management plan and analysis of noise results. Due to operational difficulties at the Colliery restricting coal production during the period of the Audit, a preliminary management plan will be produced for DPI review.</p> <p>This will be followed by a more complete review as part of the Annual Review report process including updating of the Noise Management Plan.</p>	<p>Complete</p> <p>22/4/14</p> <p>31/12/144</p>

Reference	Summary of finding (non-compliance)	Recommendation	WCL Response	Delivery Date
Project Approval – Sch.4, Condition 3	As per above for Project Approval – Sch. 4, Condition 1.	As per above for Project Approval – Sch. 4, Condition 1.	<p>The Noise Audit was accepted by the EPA as adequate on 6 January 2014 and approved by DPI on 22 January 2014</p> <p>Wilkinson Murray conducted onsite noise testing with attended and unattended loggers in Feb and March. They have the results and are currently developing draft noise management plan and analysis of noise results. Due to operational difficulties at the Colliery restricting coal production during the period of the Audit, a preliminary management plan will be produced for DPI review.</p> <p>This will be followed by a more complete review as part of the Annual Review report process including updating of the Noise Management Plan.</p>	<p>Complete</p> <p>22/4/14</p> <p>31/12/14</p>
Project Approval – Sch. 4, Condition 4(b)	Train wagon numbers are less than the specified 30 wagons.	<p>Wongawilli Coal to prepare a report confirming current site constraints regarding train wagon numbers including photographs for due diligence and compliance reporting evidence.</p> <p>Wongawilli Coal to seek an agreement with DP&I regarding a revised train wagon number.</p>	The current haulage contractor for Wongawilli Colliery will not commit to providing 33 wagons. As a result, and constrained by current contractual limitations, WCL is investigating other options for haulage contractor services once the existing contract expires. The basis of any new haulage contract will be the provision of 33 wagon trains.	12/2015

Reference	Summary of finding (non-compliance)	Recommendation	WCL Response	Delivery Date
Project Approval – Sch. 4, Condition 6(b)	Lack of an established noise monitoring program prevents an assessment of compliance against the noise criteria and goals detailed in the project approval.	<p>Finalise and gain DP&I approval of the Noise Audit Report.</p> <p>Finalise and gain DP&I approval of the Noise Management Plan.</p> <p>Implement Noise Audit recommendations.</p> <p>Implement the noise monitoring plan as detailed in the updated and DP&I approved Noise Management Plan.</p>	<p>The Noise Audit was accepted by the EPA as adequate on 6 January 2014 and approved by DPI on 22 January 2014</p> <p>Wilkinson Murray are currently assessing the attended and unattended noise loggers that were placed on site for Feb and March. There was a delay due to low production that would have given unrealistic noise levels. We needed realistic noise to record accurate data. They now have the results and are currently developing draft noise management plan and analysis of noise results. Due to operational difficulties at the Colliery restricting coal production during the period of the Audit, a preliminary management plan will be produced for DPI review.</p> <p>This will be followed by a more complete review as part of the Annual Review report process including updating of the Noise Management Plan.</p>	<p>Complete</p> <p>22/4/14</p> <p>31/12/14</p>
Project Approval – Sch. 4, Condition 7(b)	Failure to prepare and submit a Noise Audit for the Director-General's approval by the end of June 2013.	Finalise the Noise Audit Report and gain DP&I approval of the Noise Audit Report.	The Noise Audit was accepted by the EPA as adequate on 6 January 2014 and submitted to DPI on 22 January 2014	Complete

Reference	Summary of finding (non-compliance)	Recommendation	WCL Response	Delivery Date
Project Approval – Sch. 4, Condition 8	DP&I approval of the Noise Management Plan had not been achieved. The Noise Management Plan does not provide details of a noise monitoring program.	Finalise and gain DP&I approval of the Noise Audit Report. Finalise and gain DP&I approval of the Noise Management Plan.	<p>The Noise Audit was accepted by the EPA as adequate on 6 January 2014 and approved by DPI on 22 January 2014</p> <p>Wilkinson Murray are currently assessing the attended and unattended noise loggers that were placed on site for Feb and March. There was a delay due to low production that would have given unrealistic noise levels. We needed realistic noise to record accurate data. They now have the results and are currently developing draft noise management plan and analysis of noise results. Due to operational difficulties at the Colliery restricting coal production during the period of the Audit, a preliminary management plan will be produced for DPI review.</p> <p>This will be followed by a more complete review as part of the Annual Review report process including updating of the Noise Management Plan..</p>	<p>Complete</p> <p>22/4/14</p> <p>31/12/14</p>
Project Approval – Sch. 4, Condition 11	Lack of an established real-time dust monitoring program for PM10 and TSP which prevents an assessment of compliance against the air quality criteria detailed in the project approval.	Ensure real-time air quality monitoring equipment is established, operated and maintained.	<p>WCL has obtained and is reviewing a proposal for the installation of a real time air quality, noise monitoring and meteorological monitoring system.</p> <p>PEL are waiting on the results of the unattended and attended noise loggers to see what system would best suit the needs of Wongawilli Colliery.</p>	31/12/14

Reference	Summary of finding (non-compliance)	Recommendation	WCL Response	Delivery Date
Project Approval – Sch. 4, Condition 12	As per above for Project Approval – Sch. 4, Condition 11.	As per above for Project Approval – Sch. 4, Condition 1.	WCL has obtained and is reviewing a proposal for the installation of a real time air quality, noise monitoring and meteorological monitoring system. PEL are waiting on the results of the unattended and attended noise loggers to see what system would best suit the needs of Wongawilli Colliery.	31/12/14
Project Approval – Sch. 4, Condition 13(c)	Lack of an established real-time dust monitoring program and meteorological station.	Ensure real-time air quality monitoring equipment is established, operated and maintained. Ensure meteorological station is established, operated and maintained.	WCL has obtained and is reviewing a proposal for the installation of a real time air quality, noise monitoring and meteorological monitoring system. PEL are waiting on the results of the unattended and attended noise loggers to see what system would best suit the needs of Wongawilli Colliery.	31/12/14
Project Approval – Sch. 4, Condition 14	DP&I approval of the Air Quality and Greenhouse Gas Management Plan had not been achieved.	Finalise and gain DP&I approval of the Air Quality and Greenhouse Gas Management Plan.	The Air Quality and Greenhouse Gas Management Plan was approved by DPI on 25 September 2013	Complete
Project Approval – Sch. 4, Condition 15	Lack of an established meteorological station.	Ensure meteorological station is established, operated and maintained.	WCL has obtained and is reviewing a proposal for the installation of a real time air quality, noise monitoring and meteorological monitoring system. PEL are waiting on the results of the unattended and attended noise loggers to see what system would best suit the needs of Wongawilli Colliery	31/12/14
Project Approval – Sch. 4, Condition 19	Environment Protection Licence (1087) non-compliance (discharge of dirty water) reported in Annual Return for October 2011 – September 2012.	Nil.		NA

Reference	Summary of finding (non-compliance)	Recommendation	WCL Response	Delivery Date
Project Approval – Sch. 4, Condition 20	DP&I approval of the Surface Water Management Plan had not been achieved.	Finalise and gain DP&I approval of the Surface Water Management Plan.	The Surface Water Management Plan was approved by DPI on 25 September 2013	Complete
Project Approval – Sch. 4, Condition 21	DP&I approval of the Heritage Management Plan had not been achieved.	Finalise and gain DP&I approval of the Heritage Management Plan.	The Heritage Management Plan was approved by DPI on 25 September 2013	Complete
Project Approval – Sch. 4, Condition 23(b & c)	No inspection of external colliery lighting has been undertaken.	Wongawilli Coal to engage a suitably qualified lighting consultant to inspect all external lighting and assess compliance with the requirements of Schedule 4, Condition 23. Where non-compliance issues are identified, recommendations for rectification are to be provided by the lighting consultant.	A lighting consultant will be engaged as part of the Annual Review process and outcomes will be integrated into appropriate management plans as part of the Annual Review process	31/12/14

Project Approval – Sch. 5, Condition 1	Lack of an established noise monitoring program and real-time dust monitoring program.	Finalise and gain DP&I approval of the Noise Audit Report.	The Noise Audit was accepted by the EPA as adequate on 6 January 2014 and approved by DPI on 22 January 2014	Complete
		Finalise and gain DP&I approval of the Noise Management Plan.		
		Implement Noise Audit recommendations.	Wilkinson Murray are currently assessing the attended and unattended noise loggers that were placed on site for Feb and March. There was a delay due to low production that would have given unrealistic noise levels. We needed realistic noise to record accurate data. They now have the results and are currently developing draft noise management plan and analysis of noise results. Due to operational difficulties at the Colliery restricting coal production during the period of the Audit, a preliminary management plan will be produced for DPI review.	22/4/14
		Implement the noise monitoring plan as detailed in the updated and DP&I approved Noise Management Plan.		
		Finalise and gain DP&I approval of the Air Quality and Greenhouse Gas Management Plan.		
		Ensure real-time air quality monitoring equipment is established, operated and maintained.	This will be followed by a more complete review as part of the Annual Review report process including updating of the Noise Management Plan.	31/12/14
			The Air Quality and Greenhouse Gas Management Plan was approved by DPI on 25 September 2013.	Complete
			WCL has obtained and is reviewing a proposal for the installation of a real time air quality, noise monitoring and meteorological monitoring system.	31/12/14
			PEL are waiting on the results of the unattended and attended noise loggers to see what system would best suit the needs of Wongawilli Colliery	

Reference	Summary of finding (non-compliance)	Recommendation	WCL Response	Delivery Date
Project Approval – Sch. 6, Condition 1	DP&I approval of the Environmental Management Strategy was obtained after the required 6 months from the date of the project approval.	Nil.		NA
Project Approval – Sch. 6, Condition 4	Wongawilli Coal advised that no specific reviews of strategies, plans or programs has been undertaken with respect to the requirements of this condition of approval.	Management plans (including the Environmental Management Strategy) to be updated to reflect the review/revision requirements of Schedule 6, Condition 4. A review of all strategies, plans and programs to be undertaken in response to this audit and the Noise Audit.	On 8 January 2014 the DPI approved the merging of the Annual Review and Annual Environmental Management Report (for DRE) in order to increase efficiency and reduce WCL resource requirements. This report is due by 30 September 2014 and WCL would request that rather than producing another Annual Review as a result of the triggering of the Review by the submission of the Noise Audit, the company be allowed to continue its approved Annual Review process with submission on 30 September 2014.	30/9/14
Project Approval – Sch. 6, Condition 6	Instances whereby DP&I was not notified of environmental incidents.	Wongawilli Coal to develop a notification protocol identifying relevant agencies for a) incidents that cause, or have the potential to cause significant risk of material harm to the environment and b) other incidents associated with the project and c) un-approved work events and non-compliance incidents. Wongawilli Coal to establish an environmental incident register. Amend MOP as required to address future earthwork requirements in North West Portal area.	WCL will develop an Incident Notification Protocol and incident register as part of the Annual Review process. An incident report was submitted to DRE with regard to the unauthorised land clearing. The DRE responded to WCL on 21 March 2014 indicating its satisfaction with the incident report and proposed action to prevent recurrence of this type of incident. No MOP amendment was required.	30/9/14 Complete
Project Approval – Sch. 6, Condition 8	Failure to have completed an independent environmental audit by 30 June 2013.	Nil.		NA

Reference	Summary of finding (non-compliance)	Recommendation	WCL Response	Delivery Date
Project Approval – Sch. 6, Condition 10	Company website does not provide access to all of the information specified by this condition of approval.	Wongawilli Coal to update website with all information as required by Sch. 6, Condition 10.	All necessary information has been collated and will be uploaded to the WCL website once it has been launched	31/5/14
SoC – Bushfire Management Plan	Bushfire Management Plan has not been finalised.	Finalise the Bushfire Management Plan and make it available on the company's website.	The draft Bushfire Management Plan is under final review and will be placed on the WCL website when it is launched	31/5/14
SoC – Surface Water Management Plan	DP&I approval of the Surface Water Management Plan had not been achieved.	Finalise and gain DP&I approval of the Surface Water Management Plan.	The Heritage Management Plan was approved by DPI on 25 September 2013	Complete
SoC – Rainfall Monitoring at Pit Top	Lack of an established meteorological station (including rain gauge) at Pit Top.	Ensure meteorological station is established, operated and maintained.	WCL has obtained and is reviewing a proposal for the installation of a real time air quality, noise monitoring and meteorological monitoring system. PEL are waiting on the results of the unattended and attended noise loggers to see what system would best suit the needs of Wongawilli Colliery	31/12/14
SoC – Air Quality	Lack of an established real-time dust (PM10 and TSP) monitoring program.	Ensure real-time air quality monitoring equipment is established, operated and maintained.	WCL has obtained and is reviewing a proposal for the installation of a real time air quality, noise monitoring and meteorological monitoring system. PEL are waiting on the results of the unattended and attended noise loggers to see what system would best suit the needs of Wongawilli Colliery	31/12/14

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SoC – Prevention of Rail Wagon Overfilling	Lack of a protocol to prevent the overfilling of rail wagons.	Develop a protocol/procedure to prevent the overfilling of rail wagons or implement an automated system to prevent overfilling.	A concept plan has been developed and is currently undergoing feasibility review by the Mechanical Engineering Department with an aim to install a system by early 2015	31/3/15
SoC – Depositional Dust Gauges	Depositional dust gauges along the rail line were not installed within the specified timeframe.	Nil.	Depositional dust gauges have been installed	Complete
SoC – Energy Audits	No energy audits have been undertaken to date.	Wongawilli Coal to establish an energy audit schedule and conduct energy audits as per the schedule.	An energy audit will be undertaken and the results, as well as a schedule for regular audits will be incorporated into the Air Quality and Greenhouse Gas Management Plan as part of the next Annual Review	30/9/14
SoC – Emissions Inventory	The emissions inventory prepared for the project's environmental assessment has not been updated.	Wongawilli Coal to review and update the emissions inventory. Ensure proposed Annual Greenhouse Gas Audits are undertaken.	Inventory related to underground emission of gases are updated monthly and at present has been updated up to March 2014. The inventory of the emission of gases emitted on the surface of the mine are maintained and taken into account during the annual Greenhouse Gas Audit and NGERs Reporting. Annual Greenhouse Gas Audits are conducted annually (completed in October 2013 for 2012-13 and for 2013-14 the process has been initiated and expected to be completed by July 2014)	Complete

Reference	Summary of finding (non-compliance)	Recommendation	WCL Response	Delivery Date
SoC – Emissions and Abatement Strategies	Emissions and abatement strategies are not being reported be it via internal reports or reports prepared for external parties.	Annual Review reports to include details regarding greenhouse gas emissions and abatement strategies.	The Annual Review report will be modified to include updates on GHG emissions	30/9/14
SoC - Acoustics	Lack of an established noise monitoring program.	<p>Finalise and gain DP&I approval of the Noise Audit Report.</p> <p>Finalise and gain DP&I approval of the Noise Management Plan.</p> <p>Implement Noise Audit recommendations.</p> <p>Implement the noise monitoring plan as detailed in the updated and DP&I approved Noise Management Plan.</p>	<p>The Noise Audit was accepted by the EPA as adequate on 6 January 2014 and approved by DPI on 22 January 2014</p> <p>Wilkinson Murray are currently assessing the attended and unattended noise loggers that were placed on site for Feb and March. There was a delay due to low production that would have given unrealistic noise levels. We needed realistic noise to record accurate data. They now have the results and are currently developing draft noise management plan and analysis of noise results. Due to operational difficulties at the Colliery restricting coal production during the period of the Audit, a preliminary management plan will be produced for DPI review</p> <p>This will be followed by a more complete review as part of the Annual Review report process including updating of the Noise Management Plan..</p>	<p>Complete</p> <p>22/4/14</p> <p>31/12/14</p>

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SoC - Acoustics	DP&I approval of the Noise Management Plan had not been achieved.	Finalise and gain DP&I approval of the Noise Audit Report. Finalise and gain DP&I approval of the Noise Management Plan.	<p>The Noise Audit was accepted by the EPA as adequate on 6 January 2014 and approved by DPI on 22 January 2014</p> <p>Wilkinson Murray are currently assessing the attended and unattended noise loggers that were placed on site for Feb and March. There was a delay due to low production that would have given unrealistic noise levels. We needed realistic noise to record accurate data. They now have the results and are currently developing draft noise management plan and analysis of noise results. Due to operational difficulties at the Colliery restricting coal production during the period of the Audit, a preliminary management plan will be produced for DPI review</p> <p>This will be followed by a more complete review as part of the Annual Review report process including updating of the Noise Management Plan.</p>	<p>Complete</p> <p>22/4/14</p> <p>31/12/14</p>
SoC - Waste	Waste skip bins were not covered or located under a roofed area.	A Waste Management Plan should be prepared for the project and the Colliery's operations.	A Waste Management Plan will be developed and submitted as part of the Annual Review that will be submitted to DPI on 30 September 2014.	30/9/14

Reference	Summary of finding (non-compliance)	Recommendation	WCL Response	Delivery Date
Mining Lease – Condition 3b	Un-authorised land clearing and earthworks took place in the North West Mains Portal area. This work was not covered by the approved Mining Operations Plans.	Amend MOP as required to address future earthwork requirements in North West Portal area. Wongawilli Coal to establish an environmental incident register. Wongawilli Coal to develop a notification protocol identifying relevant for a) incidents that cause, or have the potential to cause significant risk of material harm to the environment and b) other incidents associated with the project and c) un-approved work events and non-compliance incidents.	An incident report was submitted to DRE with regard to the unauthorised land clearing. The DRE responded to WCL on 21 March 2014 indicating its satisfaction with the incident report and proposed action to prevent recurrence of this type of incident. WCL will develop an Incident Notification Protocol and incident register as part of the Annual Review process.	Complete 30/9/14
Mining Lease – Condition 15a	No vibration monitoring of underground blasting associated with underground construction activities is undertaken. No evidence of a documented risk assessment justifying why vibration monitoring is not required.	Wongawilli Coal to develop a blasting approval checklist that incorporates a risk assessment with respect to the blasting criteria presented in Condition 15a of the Mining Lease.	All blasting is conducted underground, and several km's from the portals. Quantities of permitted explosives are low. Vibration is very localised and has no impact on the stability of the workings. Blasting activities are infrequent A risk assessment is not considered necessary.	NA
Mining Lease – Condition 15b	No blast overpressure monitoring of underground blasting is undertaken. No evidence of a documented risk assessment justifying why blast overpressure monitoring is not required.	Wongawilli Coal to develop a blasting approval checklist that incorporates a risk assessment with respect to the blasting criteria presented in Condition 15a of the Mining Lease.	Overpressure from blasting causes only minor impacts on the u/g infrastructure. A risk assessment is not considered necessary.	NA
Mining Lease – Condition 17(1)	NSW Office of Water (NOW) has not been notified in advance of drilling operations and the required information to accompany the notification has not been supplied.	Wongawilli Coal to develop and implement a notification protocol for exploratory drilling that includes the NOW.	Wollongong Coal, as part of its exploration documentation, has developed a checklist covering requirements for various government agencies. NOW are covered by this checklist	Complete

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Mining Lease – Condition 18	A number of environmental management housekeeping issues were observed at the time of the on-site audit (September 2013) including excessive build-up of dirt on paved sections of the Colliery work areas, instances of poor chemical storage practices and steep banking with limited ground cover.	<p>Increase frequency of road sweeper use on paved sections of Colliery work areas.</p> <p>Review and improve chemical storage practices.</p> <p>Revegetated steep banking adjacent to access track in Colliery Pit Top area.</p>	<p>Veolia sweeping truck to be site introduced. Sweeping will be conducted once a week.</p> <p>Environmental chemicals and calibrations solutions are now kept in a locked cabinet.</p> <p>Steep banking is primarily rocky and doesn't accept vegetative growth readily. Revegetation will be undertaken where possible but was not required as part of the DRE response to the unauthorised clearing incident where much low vegetated banking occurs..</p>	Complete