

## Section 5

# Draft Statement of Commitments

### PREAMBLE

*The draft Statement of Commitments presented in this section has been prepared in accordance with the requirements of Part 3A of the Environmental Planning and Assessment Act 1979, and presents a compilation of the actions and the initiatives the Proponent commits to implement if the proposed LOM Project is approved. These commitments are designed to effectively manage, mitigate, guide and monitor the LOM Project through its various phases.*

*The Environmental Assessment of the LOM Project has identified a range of environmental, social and management outcomes and measures, all required to avoid or reduce the environmental and social impacts of the project. The draft Statement of Commitments reflects these desired outcomes, action and timing of commitments that would be undertaken to achieve the outcomes.*

*All parties involved in the design, establishment and operational phases of the project will be required to undertake their components of work in accordance with the commitments.*



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**Table 5.1**  
**Draft Statement of Commitments for Site Operations and Management**

Desired Outcome	Action	Timing
<b>1. Groundwater</b>		
Effective management of water dewatered from the former Werris Creek Colliery underground workings.	1.1 Dewater water from the underground workings to the already approved groundwater storage cells and use it preferentially for dust suppression activities.	Ongoing
Effective management of the potential contamination of groundwater resources.	1.2 Implement mitigation measures associated with the contamination of groundwater due to a hydrocarbon spill in accordance with the existing <i>Groundwater Contingency Plan</i> .	If contamination of groundwater due to a hydrocarbon spill occurs
	1.3 Fill the final void above the equilibrium water level following the cessation of mining in order to avoid leaving a potentially saline water body, which may have the potential to contaminate the surrounding aquifers.	Following the cessation of mining
	1.4 Increase the groundwater monitoring regime analytes monitored and/or frequency of sampling to confirm the magnitude and extent of any change in water chemistry and verify the change is a consequence of operations associated with the LOM Project.	If pH or EC trigger level exceeded
Ensure the availability of groundwater to surrounding users is maintained.	1.5 In the event that routine monitoring indicates that a groundwater trigger has been reached, commission a hydrogeologist to review the data, and provide independent advice as to the cause of the trigger. The outcomes of that review, including any recommendations, will be subject to discussion and agreement with hydrogeologists from NOW.	In the event that routine monitoring indicates that a groundwater trigger has been reached
	1.6 If the saturated thickness in any bore is reduced below trigger level, notify the affected landowner(s).	If the saturated thickness trigger level is achieved in any bore
	1.7 If a reduction in the saturated thickness within any bore is in excess of the trigger level, and is determined to be as a consequence of operations associated with the LOM Project, negotiate with the affected landowner(s) with the intent of formulating an agreement in accordance with the <i>Groundwater Contingency Plan</i> .	In the event that monitoring identifies a reduction in the saturated thickness and is determined to be a consequence of operations associated with the LOM Project

**Table 5.1 (Cont)**  
**Draft Statement of Commitments for Site Operations and Management**

Desired Outcome	Action	Timing
<b>2. Surface Water</b>		
Separate clean water from dirty water.	2.1 Construct temporary diversion banks on the upslope boundary of all areas to be stripped of groundcover and soil.	Prior to clearing and stripping operations
	2.2 Construct catch drains or banks and/or install a sediment fence on the downslope boundary of an area to be stripped of groundcover and soil.	Prior to clearing and stripping operations
	2.3 Direct sediment-laden runoff into sediment basins for treatment prior to discharge (if required).	Ongoing
	2.4 Construct all water management infrastructure in accordance with Volume 2E of the guideline document " <i>Soils and Construction: Managing Urban Stormwater</i> " (DECC, 2008).	Construction of water management infrastructure
Prevent the discharge of contaminated water from the Project Site	2.5 Install a sediment trap in the coal crushing/stockpiling and maintenance area to remove coal fines from surface flows.	Ongoing
	2.6 Install an oil/water separating unit to receive and treat potentially contaminated water from the maintenance and wash-down bay prior to further treatment within the dirty water management system.	Ongoing
Implementation of a comprehensive and ongoing surface water monitoring program.	2.7 Monitor surface water quality for pH, electrical conductivity, total suspended solid concentration, Oil & Grease levels, within: <ul style="list-style-type: none"> <li>• licensed discharge points;</li> <li>• receiving waters (Werris and Quipolly Creeks); and</li> <li>• Clean, Dirty and Void Water Dams</li> </ul>	Quarterly and during surface overflow events from licensed discharge points Quarterly and within 12 hours after an overflow event to the receiving waters Quarterly from Clean, Dirty and Void Water Dams
Prevention of saline water discharge off site.	2.8 Retain all void water within the Void Water Dams or sumps within the open cut.	Ongoing
Prevention of dirty water flowing into Werris and Quipolly Creeks.	2.9 Where practically possible, ensure the licensed discharge points / sediment basins are maintained in a dry condition to provide full storage capacity in the event of rainfall events exceeding 39.2 mm of rain over a 5-day period.	Ongoing

**Table 5.1 (Cont)**  
**Draft Statement of Commitments for Site Operations and Management**

Desired Outcome	Action	Timing
<b>3. Biodiversity</b>		
Avoid and minimise impacts on native vegetation (including the two identified EECs) where possible.	3.1 Ensure disturbance associated with the relocation of site infrastructure occurs in the locations specified on <b>Figure 2.1</b> , i.e. on cleared and cultivated land (Condition Class 1), or derived native grassland without native tree overstorey (Condition Class 3).	As these areas are constructed
	3.2 Limit vegetation clearing each year to an area required for the following 12 months mine development.	Annual
	3.3 Clearly mark / peg areas required for surface infrastructure establishment and mining.	Ongoing
	3.4 Retain felled trees on the Project Site for subsequent use during rehabilitation activities.	Site establishment and rehabilitation phases
Mitigate unavoidable disturbance to native vegetation and fauna habitat.	3.5 Identify, as part of the Pre-start Clearing Inspection, biological resources within the disturbance area including habitat resources such as hollows, stag trees and coarse woody debris, and the availability of endemic seed.	During annual clearing campaigns
	3.6 Implement a seed collection strategy and program to harvest endemic seed from local vegetation to either directly sow or propagate for tube stock planting in either biodiversity offset or rehabilitation areas.	Ongoing
	3.7 Complete monitoring and inspection programs to review the progress of rehabilitation against criteria based on vegetation community benchmark data.	Annual
Rehabilitate disturbed areas to create a final landform that maintains or improves biodiversity values of the Project Site.	3.8 Create a final landform generally similar to that of the pre-mining landform, i.e. approximating the conceptual final landform provided by <b>Figure 2.18</b> .	Ongoing
	3.9 Revegetate the final landform as nominated by <b>Figure 2.18</b> (or subsequent Rehabilitation Management Plan), i.e. predominantly native woodland vegetation which will supplement the LOM Project BOS and improve the linkage between remnant areas of native woodland vegetation to the east and west.	Ongoing
	3.10 Designate approximately 3.7ha of the final landform as Brigalow woodland to replace the 0.35ha of this vegetation type removed.	During rehabilitation

**Table 5.1 (Cont)**  
**Draft Statement of Commitments for Site Operations and Management**

Desired Outcome	Action	Timing
<b>3. Biodiversity (Cont)</b>		
Rehabilitate disturbed areas to create a final landform that maintains or improves biodiversity values of the Project Site.	3.11 Augment habitat through the placement of previously cleared timber (on the ground as well as upright 'stags') to provide important habitat value for arboreal and ground hollow dependant fauna and perching sites.	During rehabilitation operations
Manage the impacts of noxious weeds	3.12 Monitor noxious weeds on a regular basis, and if required, conduct weed management campaigns to manage weed outbreaks.	Ongoing
Minimise or avoid impacts on native fauna (including threatened species)	3.13 Undertake vegetation clearing during a single campaign each year (except when there are extenuating circumstances), preferably during seasons that minimise the risk of impacting on hibernating microbats or breeding woodland birds, i.e. Autumn.	Vegetation clearing and ongoing
	3.14 Commission a Pre-start Clearing Inspection of the proposed disturbance area by an ecologist to identify the presence of native fauna (including threatened species such as the Koala and microbats).	Vegetation clearing and ongoing
	3.15 Suspend all clearing activities, in the event a koala (or other threatened fauna species) is present in the trees to be cleared, until it moves away from the subject area or is relocated by a suitably qualified person.	Prior to clearing operations within areas of remnant vegetation.
Offset residual impact of the LOM Project	3.16 Develop and implement, in consultation with the DECCW, DoP and DSEWPaC, a Biodiversity Offset Strategy for the LOM Project.	Within 18 months of Project Approval.
<b>4. Heritage</b>		
Maintain Aboriginal heritage values on site.	4.1 Update the Aboriginal Cultural Heritage Management Plan to reflect the approval of the LOM Project.	Within 12 months of project approval
	4.2 Re-instate the Narrawolga Axe Grinding Grooves to a position as close as possible to their original location following rehabilitation of the Project Site in consultation with local Aboriginal community representatives.	Following mine closure
	4.3 Continue awareness training of staff and contractors for cultural heritage matters	Ongoing
	4.4 In the event the Project Site disturbance footprint changes, ensure that appropriate consultation and field survey is undertaken to confirm no sites or objects of Aboriginal heritage significance are impacted.	If the disturbance footprint changes

**Table 5.1 (Cont)**  
**Draft Statement of Commitments for Site Operations and Management**

Desired Outcome	Action	Timing
<b>4. Heritage (Cont)</b>		
Maintain Aboriginal heritage values on site.	4.5 In the event any previously unidentified 'objects' or other Aboriginal sites (such as burials) are uncovered, ensure that work in that area is suspended and the DECCW Western Regional Archaeologist (Dubbo Office) and local Aboriginal community are contacted to discuss how to proceed.	If a previously unidentified object or Aboriginal site is uncovered
Develop an historic context for the Project Site particularly in reference to the operation of the former Werris Creek Colliery.	4.6 Salvage the concrete marked with the hand and footprints of the former Deputy Mine Manager's daughter at the residence and provide to Ms Dora Koops (one of the daughters) for posterity.	Prior to the demolition of the residence
	4.7 Provide the photo record held by the Proponent and its consultants to the Werris Creek Historical Society (or other similar community group) as a record of the remnant features at the time of removal.	Once available
	4.8 Provide a copy of the Cultural Heritage Assessment (Landsape, 2010) to the Werris Creek Historical Society (or other similar community group) as a record of the remnant features at the time of removal.	Once available
<b>5. Transport Aspects</b>		
Product haulage by public road is conducted in an appropriate and safe manner.	5.1 Design all recommended road and intersection upgrades to accommodate B-Double use and to the satisfaction of the relevant road authority.	In designing road and intersection upgrades
	5.2 Complete all intersections to a standard providing appropriate dimensional capacity and signage and to the satisfaction of the relevant road authority.	During road and intersection construction
	5.3 Prevent spillage from the trucks through the continuation of a 'covered load' policy.	Ongoing
Accommodate the increased volume of traffic using Escott Road.	5.4 Upgrade the intersection between Escott Road and Werris Creek Road as recommended by Constructive Solutions (2010) to the satisfaction of the relevant road authority.	During the construction phase of the Project
	5.5 Upgrade Escott Road as recommended by Constructive Solutions (2010) to the satisfaction of the relevant road authority.	During the construction phase of the Project
Maintain access across the rail turn-around loop.	5.6 Construct two level crossings across the rail turn-around loop.	During construction of the rail turn-around loop
	5.7 Construct an emergency side track around the rail loop to allow emergency access should the road be blocked by a train.	During construction of the rail turn-around loop
Contribute to the maintenance of Taylors Lane.	5.8 Provide ongoing funding for maintenance of Taylors Lane on a per tonne basis (in the form of section 94 contributions).	Ongoing

**Table 5.1 (Cont)**  
**Draft Statement of Commitments for Site Operations and Management**

Desired Outcome	Action	Timing
<b>6. Noise</b>		
Attenuate mining noise sources to ensure compliance with Project Specific Noise Criteria.	6.1 Construct an Acoustic and Visual Amenity Bund at the northern extent of mining operations.	Once mining operations reach the base of "Old Colliery" Hill
	6.2 Locate all mining-related infrastructure, eg. the Coal Processing Area and Site Administration and Facilities Area, in such a way that local topography (of "Old Colliery" and "Cintra" Hills) provides a natural acoustic barrier to the town of Werris Creek and the residential receivers located to the south of the town.	During the construction phase of the Project
	6.3 Use temporary ROM coal stockpiles from time to time within the open cut mine area to minimise the transmission of noise during night-time operations.	Ongoing during night-time period
	6.4 Continue to enclose the conveyor belt of the rail load out facility.	Ongoing
	6.5 Ensure that all noise mitigation measures are implemented to ensure that all noise emissions from the Project Site meet predicted noise levels. This may include the following. <ul style="list-style-type: none"> <li>• Apply the manufacturer specified attenuator kits to each truck to achieve a noise reduction of 8dB.</li> <li>• Apply a 1 600rpm reverse gear limiter on bulldozers operating on exposed areas of the Project Site such as the Product Coal Storage Area and ROM Pad.</li> <li>• Construct a 5m high barrier around the northeastern perimeter of the relocated coal processing infrastructure.</li> <li>• Ensure that all equipment exhibits sound power levels consistent with the schedules in <i>Appendix D</i> of Spectrum Acoustics (2010).</li> <li>• Limit the number of operating drills (non exploration) on the Project Site to two at any one time.</li> <li>• Stand down all mobile equipment operating to the north of the advancing open cut under noise enhancing conditions during the evening and night-time, i.e. temperature inversion and winds from the south-southeast or northwest.</li> <li>• Whilst the Coal Processing Area remains in its current location, limit the number of trucks and excavators operating during inversion conditions to 10 and 3 respectively.</li> <li>• Ensure that during periods of noise enhancing winds, overburden emplacement activities are preferentially undertaken 'in-pit'.</li> </ul>	Ongoing  Ongoing  Within 6 months of Project Approval  Ongoing  Ongoing  During adverse meteorological conditions during the night-time period  Ongoing until the coal crushing and screening infrastructure are relocated Ongoing



**Table 5.1 (Cont)**  
**Draft Statement of Commitments for Site Operations and Management**

Desired Outcome	Action	Timing
<b>6. Noise (Cont)</b>		
Monitor and manage noise generated by the LOM Project	6.6 Update the Noise Management Plan (NMP) for the LOM Project.	Within 12 months of project approval
	6.7 Continue the existing monthly Noise Monitoring Program at the existing site to include five new locations to be affected by the Project.	Ongoing
	6.8 Implement a real-time monitoring program at selected residential locations that would be most affected by the LOM Project.	Within 12 months of project approval
	6.9 Implement a real-time meteorological monitoring program at the Project Site to gather data on wind speed and direction, and deduce inversion conditions.	Within 12 months of project approval
	6.10 Use the real time meteorological data in the management of mining operations to minimise impact of noise on the environment.	Ongoing
<b>7. Blasting</b>		
Minimise impacts from blasting on surrounding receptors and infrastructure.	7.1 Maintain the Deed of Agreement that has been established with ARTC.	Ongoing
	7.2 Continue to implement the road closure management procedure when blasting occurs within the 500m of Werris Creek Road.	Ongoing
	7.3 Minimise the number of blasts by maximising blast size without compromising compliance with the environmental criteria.	Ongoing
	7.4 Implement refinements to blast design components on the basis of monitoring results and the achievement of specific blasting objectives.	Ongoing
	7.5 Blast design and implementation is undertaken by a suitably qualified blasting engineer and/or experienced and appropriately certified shot-firer.	All blasts
	7.6 Ensure that the minimum practicable weight of explosive detonates at an instant for each blast.	All blasts
	7.7 Maintain a blast exclusion zone of 500m around each blast.	All blasts
	7.8 Continue to monitor blasting impacts at the current monitoring locations.	All blasts
<b>8. Air Quality</b>		
Minimise impacts to air quality relating to the Project.	8.1 Maintain the enclosed conveyor belt on the rail load out facility.	Ongoing
	8.2 Cleared vegetation would not be burnt.	Ongoing
	8.3 Limit groundcover removal in advance of mining to be consistent with operational requirements.	Ongoing



**Table 5.1 (Cont)**  
**Draft Statement of Commitments for Site Operations and Management**

Desired Outcome	Action	Timing	
<b>8. Air Quality (Cont)</b>			
Minimise impacts to air quality relating to the Project.	8.4	Where practicable, soil stripping operations would be undertaken at a time when there is sufficient soil moisture to prevent significant lift-off of dust.	During soil stripping operations
	8.5	Overburden emplacement would be limited on the top lift of the overburden emplacement area when winds are from a northerly direction and greater than 3m/s over more than four consecutive 15 minute periods during operations similar to those operations modelled in Scenario 1.	Ongoing until Coal Processing Area relocated to the north
	8.6	Apply water at the feed hopper, crusher and at all conveyor transfer and discharge points.	Ongoing
	8.7	Fit all conveyors with appropriate cleaning and collection devices to minimise the amount of material falling from the return conveyor belts.	Ongoing in the current CHPP and prior to the operation of the relocated CHPP
	8.8	Cease coal processing activities during periods of concurrent high winds and temperatures which cause coal dust dispersal, independent of water applications.	During high winds and temperatures which cause coal dispersal independent of water applications
	8.9	Apply water to exposed surfaces with emphasis on those areas subject to frequent vehicle / equipment movements which may cause dust generation and dispersal.	Ongoing
	8.10	Water all internal haul roads regularly.	Ongoing
	8.11	Ensure operators use appropriate speeds to limit trafficable dust emissions on all vehicles and equipment.	Ongoing
	8.12	Progressively rehabilitate areas of disturbance once they are no longer required for mining purposes.	Ongoing
	8.13	Use water injection on all drill rigs.	Ongoing during drilling operations
	8.14	Cover all product coal trucks prior to leaving the Project Site	Ongoing
	8.15	Water all product coal prior to being railed from site.	Ongoing
	Monitor and manage dust emissions generated by the LOM Project	8.16	Update the Air Quality Monitoring Program (AQMP) for the LOM Project.
8.17		Continue the existing deposited dust, PM <sub>10</sub> and TSP monitoring at the existing site locations.	Ongoing
8.18		Implement a real-time particulate matter monitoring program at locations to be determined within 12 months of approval.	Within 12 months of project approval



**Table 5.1 (Cont)**  
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Desired Outcome	Action	Timing
<b>8. Air Quality (Cont)</b>		
Monitor and manage dust emissions generated by the LOM Project (cont'd)	8.19 Use the real time monitoring data in the management of mining operations to minimise the impact of PM10 on the environment.	Ongoing
	8.20 Review the existing Energy Savings Action Plan.	In accordance with approval conditions
<b>9. Visibility</b>		
Screen the operation visually from the surrounding local area.	9.1 Construct an Acoustic and Visual Amenity Bund at the northern extent of mining operations.	Once mining operations reach the base of "Old Colliery" Hill
	9.2 Locate all mining-related infrastructure, e.g. the Coal Processing Area and Site Administration and Facilities Area, in such a way that local topography (of "Old Colliery" and "Cintra" Hills) provides a visual barrier to the town of Werris Creek and the residential receivers located to the south of the town.	As infrastructure is constructed
	9.3 Plant a screen of native trees and shrubs in front of the Acoustic and Visual Amenity Bund prior to its construction.	Commencement of the Project
	9.4 Plant trees around the perimeter of the extended product coal storage area.	On completion of construction of the extended product coal storage area
	9.5 Continue to construct the existing overburden emplacement area to create a visual barrier to the east of the Project Site including Werris Creek Road.	Ongoing
	9.6 Progressively rehabilitate areas of disturbance once they are no longer required for mining purposes.	Ongoing
	9.7 Continue to position and direct floodlights to minimise emissions.	During night-time operations
	9.8 Construct the second rail load-out bin with a similar green shade as the existing bin.	During construction phase
	9.9 Maintain the LOM Project area and associated areas of disturbance in a clean and tidy condition at all times.	Ongoing
<b>10. Soils, Land Capability and Agricultural Suitability</b>		
Create a final landform that is safe, stable and is amenable to a combination of agricultural and native flora/fauna conservation activities.	10.1 (Where practicable), immediately transfer stripped soil from source to active rehabilitation.	During soil stockpiling activities
	10.2 Stockpile the soils of each soil unit separately. This will allow the Dark Brown Vertosol soils to be preferentially used for areas of the final landform designated for the re-establishment of higher quality agricultural land.	During soil stockpiling activities

**Table 5.1 (Cont)**  
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Desired Outcome	Action	Timing
<b>10. Soils, Land Capability and Agricultural Suitability (Cont)</b>		
Create a final landform that is safe, stable and is amenable to a combination of agricultural and native flora/fauna conservation activities.	10.3 Maintain a soil inventory: <ul style="list-style-type: none"> <li>to ensure appropriate volumes of different soil units are stripped consistently with the soil requirements of the final landform.</li> <li>to identify the age of various soil stockpiles on the Project Site and therefore assist in minimising the length of time soils remained stockpiled.</li> <li>to assist the Proponent in using the most appropriate soils for the different elements of the final landform.</li> </ul>	Ongoing
	10.4 Construct the eastern, southern and western surfaces of the overburden emplacement at 10° or less.	During regrading of the final slopes
	10.5 Construct the northern surface of the overburden emplacement, which runs into the open cut void with steeper slopes which would ultimately be reduced to 18° (1V:3H) or less in the final landform.	During regrading of the final slopes
	10.6 Create a series of contour banks, similar to those on the existing landform, on the outer slopes of the regraded emplacement to manage surface water runoff and assist in minimising erosion of these slopes.	During rehabilitation activities
	10.7 Conduct monitoring of rehabilitation performance against the proposed sustainable land use outcome and carry out amelioration works where necessary.	During rehabilitation activities
	10.8 Reinstate at least 37a of Class III land on the rehabilitated landform.	By the end of mine life
	10.9 Backfill the final void to above the modelled final water table level.	During construction of the final void
Minimise the degradation to soil resources.	10.10 Undertake vegetation clearing activities so as to minimise soil disturbance.	During clearing of larger vegetation
	10.11 Retain smaller vegetation and leaf litter in the soil to be stripped.	During soil stripping activities
	10.12 Stripping of soil during periods of excessive soil moisture content will be avoided to reduce the likelihood of damage to soil structure.	During soil stripping activities
	10.13 Soil to be preferentially respread on areas of the final landform immediately following stripping rather than being stockpiled.	During soil stripping activities
	10.14 Where stockpiling is necessary, soil stockpiles would not exceed 3m in height.	During soil stockpiling activities
Maximise the retention of soil resources.	10.15 Soil is to be generally stripped in accordance with <b>Table 2.7</b> .	During soil stripping activities

**Table 5.1 (Cont)**  
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Desired Outcome	Action	Timing
<b>11. Waste</b>		
Manage waste appropriately on site.	11.1 Maintain a register of the types and quantities of wastes produced on the Project Site.	Ongoing
	11.2 Design and maintain storage areas to contain spillages.	Ongoing
	11.3 Segregate and retain recyclable and non-recyclable waste in designated storage areas prior to removal from the Project Site.	Ongoing
	11.4 Keep the Project Site in a clean and tidy condition.	Ongoing
	11.5 Ensure waste is regularly removed from the Project Site by a licensed contractor.	Ongoing
<b>12. Hazards</b>		
Manage bushfire hazards appropriately.	12.1 Maintain an immediate method of egress from the Project Site to Project personnel in the event of bushfire attack on the Project Site.	Ongoing.
	12.2 Follow all instructions provided by the NSW Rural Fire Service (RFS) or police in the event of a local bushfire event threatening the Project Site.	In the event of a local bushfire event threatening the Project Site.
	12.3 Provide access to all Project Site water storages to the RFS and any reasonable assistance offered to RFS or police personnel.	In the event of a local bushfire event threatening the Project Site.
	12.4 Refuelling to be undertaken within designated fuel bays or within cleared area of the Project Site.	Ongoing.
	12.5 Turn off vehicles during refuelling.	During refuelling.
	12.6 Enforce a no smoking policy in designated areas of the Project Site.	Ongoing.
	12.7 Maintain fire extinguishers within site vehicles and refuelling areas.	Ongoing.
	12.8 Ensure a water cart is available to assist in extinguishing any fire ignited.	In the event of a fire.
	12.9 Equip all equipment on site with adequate and fully operational fire suppression equipment in accordance with AS 1841 and AS 1851.	Ongoing.
	12.10 Train all employees in the proper use of fire fighting equipment held on site.	Ongoing.
	12.11 Set aside water especially for fire fighting on site.	Ongoing.
	12.12 Ensure that fire fighting equipment is made available to the local Rural Fire Service if required in the event of a bushfire in the land surrounding the Project Site.	In the event of a bushfire in the land surrounding the Project Site
	12.13 Develop and maintain firebreaks at the edge of the Project Site.	Ongoing.



**Table 5.1 (Cont)**  
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Desired Outcome	Action	Timing
<b>12. Hazards (Cont)</b>		
Minimise the potential for a traffic incident on a public road involving a Project related vehicle.	12.14 Locate the Escott Road Entrance to the Project Site to the east of the Rail Load-out Road with light vehicle traffic to the Project Site offices not required to cross the Rail Load-out Road.	During the construction phase of the Project
	12.15 Install level crossings at the two points where Escott Road crosses the turn-around rail loop.	During construction of the rail loop
	12.16 Construct an emergency access road around the perimeter of the turn-around rail loop.	During construction of the rail loop
The storage and handling of hazardous materials is appropriately managed.	12.17 Direct all water from wash-down areas and workshops to oil separators and containment systems.	Ongoing
	12.18 Ensure that all storage tanks are either self bunded tanks or bunded with an impermeable surface and a capacity to contain a minimum 110% of the largest storage tank capacity.	Ongoing
	12.19 Securely store all hydrocarbon products.	Ongoing
	12.20 Designate areas for refuelling and minor maintenance work (with the exception of less mobile mining equipment, e.g. excavators which would be refuelled within the open cut area) and enforce the use of these areas.	Ongoing
<b>13. Community Contributions</b>		
Provide for ongoing support to the Werris Creek local community and Liverpool Plains Shire Council.	13.1 Maintain the Community Consultative Committee or similar and include local community representatives.	Ongoing
	13.2 Complete and distribute regular newsletters regarding project progress and operations.	At least 6 monthly
	13.3 Continue to provide funding towards maintenance of Taylors Lane through S94 contributions.	Ongoing
	13.4 Establish a Community Enhancement Fund through Liverpool Plains Shire Council.	Ongoing
<b>14. Environmental Monitoring</b>		
Implement a comprehensive and ongoing surface water monitoring program.	14.1 Monitor surface water quality for: pH, electrical conductivity, total suspended solid concentration, Oil & Grease levels at licensed discharge points, receiving waters (Werris and Quipolly Creeks) and clean, dirty and void water dams. (See also Commitment 2.7).	Quarterly and during surface overflow events from licensed discharge points Quarterly and within 12 hours after an overflow event to the receiving waters
Implement a comprehensive and ongoing groundwater monitoring program.	14.2 Continue monitoring of piezometers and groundwater bores on and surrounding the Project Site in accordance with the current Groundwater Monitoring Program.	Both monthly and continuous (dependent on particular piezometer or groundwater bore)

**Table 5.1 (Cont)**  
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Desired Outcome	Action	Timing
<b>14. Environmental Monitoring (Cont)</b>		
Implement a comprehensive and ongoing groundwater monitoring program.	14.3 Update the Groundwater Monitoring Program.	Within 12 months of receiving project approval
	14.4 Commission an experienced hydrogeologist to collate and review the monitoring data collected annually in order to assess the impacts of the project on the groundwater environment, and to compare any observed impacts with those predicted from groundwater modelling.	Annual
	14.5 Implement the Groundwater Contingency Plan as required.	In the event that routine monitoring indicates that a trigger has been reached
Implementation of an appropriate noise monitoring program to ensure continuing compliance with DECCW guideline levels.	14.6 Undertake attended noise monitoring at the residences most likely to be affected by the LOM Project. <ul style="list-style-type: none"> <li>• R20: "Tonsley Park"</li> <li>• R9: "Almawillee"</li> <li>• R11: "Glenara"</li> <li>• R12: Fletcher</li> <li>• Werris Creek Town (R55 or R62)</li> <li>• R14: "Greenslopes &amp; Banool"</li> </ul>	Monthly
	14.7 Implement a real-time noise monitoring program with monitoring to be conducted at the most affected receiver based on the prevailing conditions at the time	Within 6 months of project approval
Implementation of an appropriate noise monitoring program to ensure continuing compliance with DECCW guideline levels.	14.8 Update the Noise Monitoring Program to reflect additional attended and real time monitoring sites.	Within 12 months of receiving project approval
Implementation of an appropriate air quality monitoring program to ensure continuing compliance with DECCW guideline levels.	14.9 Maintain the existing dust (WC1 to WC10), PM <sub>10</sub> (WCHV1 to WCHV4) and TSP (WCTSP) monitoring network as identified in the Werris Creek Coal Mine Air Quality Monitoring Program.	Ongoing
	14.10 Install a new High Volume Air Sampler, monitoring for PM <sub>2.5</sub> ,	Within 12 months of project approval
	14.11 Implement a real-time particulate matter monitoring program at locations to be determined within 12 months of approval.	Within 12 months of project approval

**Table 5.1 (Cont)**  
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Desired Outcome	Action	Timing
<b>15. Environmental Management System</b>		
A systematic set of documents are in place to guide the planning and implementation of all environmental management strategies.	15.1 Incorporate the environmental procedures in an on-site management system.	Prior to relevant activity
	15.2 Prepare or update the following management and monitoring plans; <ul style="list-style-type: none"> <li>• Mining Operations Plan</li> <li>• Aboriginal Cultural Heritage Management Plan</li> <li>• Energy Savings Action Plan</li> <li>• Water Management Plan</li> <li>• Erosion &amp; Sediment Control Plan</li> <li>• Noise Management Plan</li> <li>• Noise Monitoring Program</li> <li>• Air Quality Monitoring Program</li> <li>• Rehabilitation and Landscape Management Plan</li> <li>• Flora &amp; Fauna Management Plan</li> <li>• Biodiversity Offset Management Plan</li> </ul>	Various and as nominated by project approval
	15.3 Incorporate relevant environmental data / information in Annual Environmental Management Reports.	Annually

