

# Appendix 1

## Revised Statement of Commitments

(Total No. of pages including blank pages = 32)

(Note: A colour version of this Appendix is available on the Project CD)



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As noted in Section 2.1.3.2 of the *Environmental Assessment*, a range of commitments made by the Proponent in relation to the Project and embodied in the Statement of Commitments presented in Appendix 5 of PA10\_0054 are either duplicated by the conditions of PA10\_0054, are inconsistent with those conditions, are no longer relevant or have been completed by the Proponent. The issue of this duplication and its consequent potential for conflict and or duplication was raised by Mr Stephen O’Donoghue, Investigation Lead (Compliance) with the Department of Planning and Environment during an annual site inspection on 10 February 2015.. As a result of Mr O’Donoghue’s comments, the Proponent agreed to review the Statement of Commitments and adjust the commitments to remove duplication or inconsistency with the conditions of consent and those commitments that are no longer relevant or have been completed and where no further commitment is required. As agreed, this was completed for all commitments, not just those associated with water.

**Table A1-1** presents the proposed revised Statement of Commitments. The proposed additions are underlined and the proposed deletions are presented in ~~strikeout~~ text. A justification for each change has also been included.

**Table A1-1**  
**Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>1 ENVIRONMENTAL MANAGEMENT</b>			
<del>Compliance with all conditional requirements in all approvals, licences and leases.</del>	<del>1.1 Comply with all commitments recorded in this statement of commitments.</del>	Continuous and as required.	Now addressed by Condition 2(2).
	1.2 <u>Comply with all conditional requirements included in the:</u> <ul style="list-style-type: none"> <li>• <u>Project Approval;</u></li> <li>• <u>Environment Protection Licence;</u></li> <li>• <u>Mining Lease(s); and</u></li> <li>• <u>any other approvals.</u></li> </ul>		
<del>All operations conducted in accordance with all relevant documentation.</del>	1.3 <u>Undertake all activities in accordance with the accepted Mining Operations Plan, environmental procedures, safety management plan and/or site specific documentation.</u>	Continuous and as required.	Now addressed generally by the conditions of the consent and statutory requirements re. <i>Mining Operations Plans</i> .
<b>2 AREA OF ACTIVITIES</b>			
All approved activities are undertaken generally in the location(s) nominated on the figures shown in Sections 2 and 4.	2.1 <u>Mark, and where appropriate, survey the boundaries of the areas of proposed disturbance.</u>	Prior to the commencement of the relevant activity.	

**Table A1-1 (Cont'd)**  
**Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification																			
<b>3 OPERATING HOURS</b>																						
All operations are undertaken within the approved operating hours.	<p>3.1 Undertake all activities, where practicable, in accordance with the following operating hours.</p> <table border="1" data-bbox="533 391 1377 1181"> <thead> <tr> <th data-bbox="533 391 925 427">Activity</th> <th data-bbox="925 391 1377 427">Proposed Hours of Operation</th> </tr> </thead> <tbody> <tr> <td data-bbox="533 427 925 491">Vegetation clearing and topsoil stripping</td> <td data-bbox="925 427 1377 491">7:00am to 6:00pm, Monday to Saturday</td> </tr> <tr> <td data-bbox="533 491 925 523">Construction operations – Box cut</td> <td data-bbox="925 491 1377 523">8:00am to 6:00pm, Sunday and Public Holidays</td> </tr> <tr> <td data-bbox="533 523 925 587">Blasting Operations – Box cut</td> <td data-bbox="925 523 1377 587">9:00am to 5:00pm, Monday to Friday excluding Public Holidays</td> </tr> <tr> <td data-bbox="533 587 925 651">Construction operations – Remainder</td> <td data-bbox="925 587 1377 651" rowspan="4">24 hours per day, 7 days per week</td> </tr> <tr> <td data-bbox="533 651 925 715">Underground mining operations, including underground blasting</td> </tr> <tr> <td data-bbox="533 715 925 746">Maintenance operations</td> </tr> <tr> <td data-bbox="533 746 925 810">Processing operations – except crushing and screening</td> </tr> <tr> <td data-bbox="533 810 925 906">Crushing and screening operations</td> <td data-bbox="925 810 1377 906">7:00am to 7:00pm, 7 days per week (24 hour operations on no more than 20 days per year)</td> </tr> <tr> <td data-bbox="533 906 925 1090">Transportation operations – Proponent-controlled vehicles</td> <td data-bbox="925 906 1377 1090">7:00am to 10:00pm, Monday to Saturday (excluding 7:00am to 8:30am and 3:00pm to 5:00pm school days) 8:00am to 10:00pm, Sunday and Public Holidays</td> </tr> <tr> <td data-bbox="533 1090 925 1181">Rehabilitation operations</td> <td data-bbox="925 1090 1377 1181">7:00am to 6:00pm, Monday to Saturday 8:00am to 6:00pm, Sunday and Public Holidays</td> </tr> </tbody> </table>	Activity	Proposed Hours of Operation	Vegetation clearing and topsoil stripping	7:00am to 6:00pm, Monday to Saturday	Construction operations – Box cut	8:00am to 6:00pm, Sunday and Public Holidays	Blasting Operations – Box cut	9:00am to 5:00pm, Monday to Friday excluding Public Holidays	Construction operations – Remainder	24 hours per day, 7 days per week	Underground mining operations, including underground blasting	Maintenance operations	Processing operations – except crushing and screening	Crushing and screening operations	7:00am to 7:00pm, 7 days per week (24 hour operations on no more than 20 days per year)	Transportation operations – Proponent-controlled vehicles	7:00am to 10:00pm, Monday to Saturday (excluding 7:00am to 8:30am and 3:00pm to 5:00pm school days) 8:00am to 10:00pm, Sunday and Public Holidays	Rehabilitation operations	7:00am to 6:00pm, Monday to Saturday 8:00am to 6:00pm, Sunday and Public Holidays	Continuous and as required.	Now addressed by Condition 3(3).
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**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>4 NOISE AND BLASTING</b>			
Noise generated by operational activities does not exceed OEH nominated criteria nor significantly impacts on neighbouring landowners and/or residents.	<b>Site Establishment Noise Controls</b>		
	<del>4.1 Ensure all bulk earthworks strictly adhere to standard construction hours of operation identified in commitment 3.1.</del>	<del>Continuous during site establishment operations.</del>	Now addressed by Condition 3(3).
	4.2 Maintain the on-site road network to limit body noise from empty trucks travelling on internal roads.	Continuous during site establishment operations.	
	4.3 Maintain an open dialogue with the surrounding community and neighbours to ensure any concerns over noise or vibration are addressed.		
	<b>Operational Noise Controls</b>		
	4.4 Place and operate the crusher within an enclosure engineered to achieve a noise reduction of at least 12dB.	Prior to and continuous during mining operations.	
	4.5 Ensure that the grinding circuit is rubber lined.		
	4.6 Place and operate the ventilation fan at least 10m below ground level rather than at the surface. The interim ventilation fan would be placed within the deepest section of the box cut until the final fan is commissioned. The interim fan may be retained as a backup ventilation system in the event of failure of the final fan.		
	<del>4.7 Construct a noise bund of at least 5m high along the southern and western edges of the ROM pad.</del>		Now addressed by Condition 3(44).
	<del>4.8 Undertake attended noise monitoring at the residences most likely to be affected by noise generated by the Project.</del>	<del>Continuous during mining operations.</del>	Now addressed by Condition 3(5)(c).
<del>4.9 Prepare a Noise Management Plan prior to the commencement of mining activities, which would incorporate the specific details of all noise controls and provide measures to address noise criteria exceedances and/or complaints should they occur.</del>	<del>Prior to commencement of mining operations.</del>		
4.9a Ensure that Frequency Modulated Reversing Alarms are fitted to all mobile equipment that require such alarms.	Continuous during the life of the Project		

**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification															
<b>4 NOISE AND BLASTING (CONT'D)</b>																		
All activities are undertaken in such a manner as to reduce the noise level generated and minimise impacts on surrounding landholders and/or residents.	<del><b>Transport Noise Controls and Operational Procedures</b></del>	Continuous during transportation operations.	Now addressed by Condition 3(3).															
	4.10 <del>Ensure strict adherence to hours of operation, identified in commitment 3.1.</del>																	
	4.11 Ensure, where practicable, that all Project employees and contractors enter and exit the Project Site in a courteous manner and without causing undue traffic noise.																	
Achieve compliance with all ANZECC Blasting Guidelines.	<del><b>Blasting Controls</b></del>	Continuous during mining operations.	Now addressed by Condition 3(6).															
	4.13 <del>Ensure that all blasts are designed by a suitably qualified and experienced blasting engineer or shotfirer and that each blast has an MIC of no greater than 105kg (until such time that a site law is developed which will allow for more precise predictions of blast emissions).</del>																	
All activities are undertaken in such a manner as to reduce the noise level generated and minimise impacts on surrounding landholders and/or residents.	<del><b>Other Noise and Vibration Controls</b></del>	Continuous during mining operations.	Duplicated by Commitment 4.9a.															
	4.14 Ensure that equipment with lower sound power levels is used in preference to more noisy equipment. <del>and that frequency modulated reversing alarms are installed on all mobile equipment operating on the surface.</del>																	
Ensure that Project related noise and blasting do not exceed the INP criteria in the Majors Creek State Conservation Area	4.15 Maintain an open dialogue with the surrounding community and neighbours to ensure any concerns over noise or vibration are addressed.		Now addressed by Condition 3(3).															
	4.16 <del>Ensure that the noise generated by the project does not exceed the criteria below on more than 25% of land within the Majors Creek State Conservation Area.</del>																	
	<table border="1"> <thead> <tr> <th colspan="2"><b>Day</b></th> <th colspan="2"><b>Evening</b></th> <th colspan="2"><b>Night</b></th> </tr> <tr> <th><b>LAeq (15min)</b></th> <th></th> <th><b>LAeq (15min)</b></th> <th></th> <th><b>LAeq (15min)</b></th> <th><b>LA1 (1 min)</b></th> </tr> </thead> <tbody> <tr> <td>35</td> <td></td> <td>35</td> <td></td> <td>35</td> <td>45</td> </tr> </tbody> </table> <p><i>Note: Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy</i></p>			<b>Day</b>		<b>Evening</b>		<b>Night</b>		<b>LAeq (15min)</b>		<b>LAeq (15min)</b>		<b>LAeq (15min)</b>	<b>LA1 (1 min)</b>	35		35
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35		35		35	45													
4.17 <del>Ensure that the blasting on site does not cause exceedances of the criteria in the table below.</del>	<table border="1"> <thead> <tr> <th><b>Airblast overpressure (dB(Lin Peak))</b></th> <th><b>Ground vibration (mm/s)</b></th> <th><b>Allowable exceedance</b></th> </tr> </thead> <tbody> <tr> <td>120</td> <td>10</td> <td>0%</td> </tr> </tbody> </table> <p><i>Note: All blasts are to be designed by a suitably qualified and experienced blasting engineer.</i></p>	<b>Airblast overpressure (dB(Lin Peak))</b>	<b>Ground vibration (mm/s)</b>	<b>Allowable exceedance</b>	120	10	0%											
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**Table A1-1 (Cont'd)  
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Desired Outcome	Commitment	Timing	Justification
<b>5 ECOLOGY</b>			
Management of disturbance within the Project Site to minimise impact on fauna of conservation value.	5.1 Ensure that, <u>with the exception of the Return Air Rise, Fresh Air Rise and associated infrastructure</u> , no ground disturbing activities are undertaken within areas of identified Ribbon Gum Forest and Fragmented Ribbon Gum Forest.	Continuous during the life of the project.	The additional activities were approved as part of Modification 2.
	5.1a Implement reasonable and feasible measures to ensure that fauna, including birds, do not enter the Tailings Storage Facility and monitor the facility for such use.	Continuous during the life of the project.	
	5.1b Conduct annual late winter surveys for the presence of active Little Eagle nests within the project site for the life of the Project. In the event that one or more nests are identified, prepare and implement an appropriate management plan in consultation with OEH.		
Maintenance and improvement of the biodiversity value of the Project Site and surrounding areas.	5.2 Avoid the use of phosphate-based fertiliser in pasture areas to encourage the regeneration of native grasses.	Continuous during the life of the Biodiversity Strategy.	
	5.3 Manage grazing operations, including stocking rates and fencing, in a manner to sustain and facilitate the spread of native grass species.		
	5.4 Fence all areas of Ribbon Gum Forest and Fragmented Ribbon Gum Forest to exclude stock.		
	5.4a Manage all areas of Ribbon Gum Forest and Fragmented Ribbon Gum Forest to maintain to improve biodiversity values.		
	5.5 Ensure that areas of habitat suitable for the Majors Creek Leek Orchid are appropriately identified and fenced with a 20m buffer and access restricted. Ensure no disturbance occurs within the fenced areas.		
	5.6 Prepare a management plan to ensure that Common Wombat are not harmed during establishment of the tailings storage facility. This plan may include the following. <ul style="list-style-type: none"> <li>– Mark all wombat burrows prior to the commencement of ground disturbing activities.</li> <li>– Commence ground disturbing activities on the upper slopes of creek banks a few days before disturbing the identified hollows to allow individual wombats time to vacate their burrows at night when equipment is not operating.</li> </ul>		

**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>5 ECOLOGY (CONT'D)</b>			
Maintenance and improvement of the biodiversity value of the Project Site and surrounding areas. (Cont'd)	<ul style="list-style-type: none"> <li>- Inspect all burrows to ensure that common wombats have vacated the proposed area of disturbance.</li> <li>- Any remaining wombats would be relocated in consultation with a suitably qualified and experienced wildlife carer, fauna ecologist and/or local wombat expert.</li> </ul>	Continuous during the life of the Biodiversity Strategy	
	5.7 <del>Continue the existing weed and pest control program, with particular focus on managing Broom and Blackberry within the southern section of the Project Site.</del>		Now addressed by Condition 3(35)(b) – bullet point 7.
	5.8 Ensure that dead fallen and standing timber are not removed or disturbed to preserve fauna habitat.		
	5.9 <del>Implement fully the Biodiversity Strategy described in Section 2.15 of the Environmental Assessment, including ensuring that the strategy would be implemented in perpetuity.</del>	Now addressed by Conditions 3(32) to 3(34).	
	5.9a <del>Identify and implement an offsite biodiversity strategy that would:</del> <ul style="list-style-type: none"> <li><del>— ensure the protection and enhancement of a minimum of 35.5ha of Tableland Basalt Forest in similar condition to that community within the project site;</del></li> <li><del>— include a Biodiversity Offset Area within the vicinity of the project site but outside the area of predicted groundwater drawdown;</del></li> <li><del>— be implemented in perpetuity; and</del></li> <li><del>— be described in the Biodiversity Management Plan for the project, as amended.</del></li> </ul> <p><del>Alternatively, ensure that funding to an equivalent amount that would have been required under the abovementioned offsite Biodiversity Offset Strategy is made available in perpetuity for the management of Tableland Basalt Forest matters in the vicinity of the project site.</del></p>	Within 12 months of the commencement of construction.	







**Table A1-1 (Cont'd)  
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Desired Outcome	Commitment	Timing	Justification										
<b>5 ECOLOGY (CONT'D)</b>													
Maintenance and improvement of the biodiversity value of the Project Site and surrounding areas. (Cont'd)	<p>5.9b — Extend the offset strategy to be implemented under conditions 32 and 33 in schedule 3 of the Project Approval as follows:</p> <ul style="list-style-type: none"> <li>— the extended biodiversity offset area will be as described in the following table and as shown in Appendix 4;</li> <li>— those portions of the approved Biodiversity Areas identified in Appendix 4 (<b>Combined Biodiversity Offset Area</b>) as either Ribbon Gum Forest or Fragmented Ribbon Gum Forest, or any area within the Combined Biodiversity Offset Area where it is appropriate to re-establish the Endangered Ecological Community Tableland Basalt Forest, will be managed in a manner that would ensure the regeneration of that community; and</li> <li>— the remainder of the Combined Biodiversity Area, where appropriate, will be managed in a manner that would ensure the regeneration of native grassland which is consistent with the Natural Temperate Grassland EEC.</li> </ul> <p><i>Table: Extended Biodiversity Offset Area</i></p> <table border="1" data-bbox="539 863 1379 1018"> <thead> <tr> <th>Community Type</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>Ribbon Gum Forest*</td> <td>17.8 ha</td> </tr> <tr> <td>Woody Woods Shrubland</td> <td>2.3 ha</td> </tr> <tr> <td>Native dominated pasture</td> <td>8 ha</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>28.1</b></td> </tr> </tbody> </table> <p>* Listed as an EEC under the <i>Threatened Species Conservation Act, 1995</i></p>	Community Type	Area (ha)	Ribbon Gum Forest*	17.8 ha	Woody Woods Shrubland	2.3 ha	Native dominated pasture	8 ha	<b>TOTAL</b>	<b>28.1</b>	Continuous during the life of the Project.	Now addressed by Conditions 3(32) to 3(34).
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Woody Woods Shrubland	2.3 ha												
Native dominated pasture	8 ha												
<b>TOTAL</b>	<b>28.1</b>												
	<p>5.10 — Prepare a Biodiversity Management Plan in consultation with the relevant government agencies and the community consultative committee. That plan would:</p> <ul style="list-style-type: none"> <li>— specify biodiversity related actions to be undertaken during the life of the Project and for several years after the site has been decommissioned;</li> <li>— incorporate the above commitments;</li> <li>— include a program to determine the condition of Araluen Scarp Grassy Forest EEC adjacent to Majors Creek within the Majors Creek State Conservation Area, including ongoing monitoring;</li> <li>— include a program to identify any groundwater dependent (phreatophytic) vegetation within and outside the zone of groundwater drawdown, including an assessment of soil moisture;</li> </ul>	Within 12 months of the commencement of construction.	Now addressed by Condition 3(35).										

**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>5 ECOLOGY (CONT'D)</b>			
Maintenance and improvement of the biodiversity value of the Project Site and surrounding areas. (Cont'd)	<ul style="list-style-type: none"> <li>— specify that the required monitoring of phreatophytic vegetation should include pre-dawn measurement of water potential and transpiration by means of porometry at a series of measurement sites across the drawdown cone (not limited to the project site, but at 2 metres at the outermost). Monitoring to include monitoring of bore depth and rainfall, at least 4 times a year in August, November, January and March;</li> <li>— include a program to identify and monitor stygofauna within and surrounding the project site, including a program to collate onsite baseline data utilising the existing groundwater monitoring network;</li> <li>— describe management of the proposed biodiversity area(s);</li> <li>— require the collection, appropriate storage and recording of native seed within the project site to supply amelioration and rehabilitation activities;</li> <li>— describe the proposed revegetation and amelioration program, including identification of areas to be revegetated/ameliorated and the species to be used; and</li> <li>— involve, where practicable, local community groups in management of biodiversity within the Project Site.</li> </ul>	Within 12 months of the commencement of construction.	Now addressed by Condition 3(35).
	5.11 Construct the proposed water pipelines in a manner that would not disturb any Ribbon Gum Forest nor any vegetation over 3m height.	During pipeline construction	
	5.12 Identify a suitable final landform in consultation with the relevant government agency(ies), including reducing the angle of the walls of the box cut to permit placement of soil material and revegetation.	During preparation of the final closure plan	Now addressed by Condition 3(53).
	5.13 Ensure that all in-ground infrastructure in the vicinity of living native trees that comprise a component of the Ribbon Gum Forest or Fragmented Ribbon Gum Forest are installed in accordance with AS4970-2009 – Protection of Trees on Development Sites. In particular, ensure that such infrastructure is installed outside any Tree Protection Zone established by the standard.	During construction of in-ground infrastructure	





**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>6 GROUNDWATER</b>			
Mitigate potential adverse impacts to surrounding groundwater users.	6.1 — Undertake consultation with the owners of bores or users of springs that are predicted to be adversely impacted by the Project or have been determined by an independent hydrologist to have been adversely impacted by the Project. The consultation would be directed at seeking to adequately mitigate or compensate the owners or users for the identified adverse impacts. Options include deepening or redrilling and re-equipping the existing bores or providing additional water from another source to compensate for the reduced groundwater supply.	Prior to and during the life of the Project.	Now addressed by Condition 3(23) and 3(30).
	6.2 — Monitor groundwater levels in surrounding, privately owned bores on request. The Proponent would ensure that all landholders in the vicinity of the anticipated zone of groundwater drawdown are briefed on the anticipated impacts and that an appropriate monitoring program is negotiated. In addition, a similar offer would be made to all other landowners with bores in the vicinity of the Project Site. Monitoring frequency would be reviewed at least annually and adjusted, as required. This may include removing some monitoring locations in consultation with the relevant government agencies.		
Compensate for anticipated reduced groundwater discharges to surface water.	6.3 — Release water sourced primarily from the harvestable rights dams at the rates identified in <b>Table 4.20</b> of the <i>Environmental Assessment</i> into Majors Creek at the confluence of Majors and Spring Creeks. These environmental discharges are to continue from the commencement of mining operations until the loss of baseflow is negligible, as determined under condition 22 in schedule 3 of the Project Approval.	From commencement of mining operations until the loss of baseflow is negligible, as determined under condition 22 in schedule 3 of the Project Approval.	Now addressed by Condition 3(22).
	6.4 — Negotiate an appropriate arrangement with the owners of Lot 210, DP755934 to allow construction or equipping of a bore to access groundwater within the Snobs workings.	Prior to construction of that bore and extraction of water.	Complete. An agreement has been negotiated and signed by the Proponent and landowners.
	6.4a — Ensure that water extracted from the historic workings is used for mining-related and compensatory release purposes only. Any release of water from the historic workings for the purpose of compensatory release will comply with the trigger levels identified in the protocol referred to in condition 31(a) in schedule 3 of the Project Approval that is required to be contained in the Surface and Ground Water Response Plan.	Continuous during the Life of the Project	Now addressed by Condition 3(31).

**Table A1-1 (Cont'd)**  
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Desired Outcome	Commitment	Timing	Justification
<b>6 GROUNDWATER (CONT'D)</b>			
Compensate for anticipated reduced groundwater discharges to surface water. (Cont'd)	6.4b — Install separate pipelines for surface water and groundwater and ensure that the two classes of water are not mixed.	During construction operations	Now addressed by Condition 3(31).
Confirm the accuracy of the groundwater model and anticipated impacts.	6.4c — Undertake preliminary groundwater monitoring within and surrounding the Project Site during preparation of the <i>Water Management Plan</i> and adjust the monitoring to be consistent with that plan once it has been approved by the relevant government agencies.	As soon as practicable and during the life of the Project	No longer relevant.
	6.4d — Undertake, in consultation with NOW, a pump test to confirm the assumed hydrological parameters used in the groundwater model. The pump test should be in the vicinity of the mine where the fracture density and hydraulic conductivity is likely to be high.		Now addressed by Condition 3(30)(e).
	6.4e — Undertake a review of the numerical groundwater model, including: <ul style="list-style-type: none"> <li>— further detailed baseline data inputs, as required by the conditions of the approval;</li> <li>— a statistical comparison of the Braidwood and Majors Creek rainfall data to determine the significance of choice of input;</li> <li>— rain fall data from the weather station within the project site (if determined to be relevant);</li> <li>— pumping tests of relevant bores;</li> <li>— a comprehensive sensitivity and uncertainty analysis of groundwater model outputs;</li> <li>— measurement of baseflow in Majors and Spring Creeks; and</li> <li>— investigation of the water quality arising from the mine backfilling including modelling of dissolution associated with changes in hydrology, groundwater flow and the nature of the aquifer matrix.</li> </ul> In the event that the actual impacts are significantly greater than those presented in AGE (2010), then the Proponent would consult with NOW in relation the revised modelling results and would develop appropriate management and mitigation measures to address those impacts	Prior to commencement of mining operations and every two years following commencement of those operations.	
	6.4f — Present the results of the review of the numerical groundwater model to the relevant government agencies.		With 3 months of the completion of each review





**Table A1-1 (Cont'd)  
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Desired Outcome	Commitment	Timing	Justification
<b>6 GROUNDWATER (CONT'D)</b>			
Minimisation of groundwater contamination.	6.5 Store all hydrocarbon and chemical products within a bunded area complying with the relevant Australian Standard.	Continuous during the life of the Project.	
	6.6 Refuel all equipment within designated, sealed areas of the Project Site, where practicable.		
	6.7 Undertake all maintenance works involving hydrocarbons, where practicable, within designated areas of the Project Site such as the maintenance workshop.		
	6.8 Direct all water from wash-down areas and workshops to oil/water separators and containment systems.		
	6.9 <del>Ensure all hydrocarbon and chemical storage tanks are either self-bunded or bunded with an impermeable surface and a capacity to contain a minimum 110% of the largest storage tank capacity.</del>		
	6.10 <del>Design and construct the tailings storage facility as described in Section 2.7 of the EA and in accordance with the requirements of the relevant government agencies. Key design parameters would be as follows.</del> <ul style="list-style-type: none"> <li><del>— Construct the floor and walls of the tailings storage facility in a manner that would achieve a permeability of less than 1x10<sup>-9</sup>m/sec.</del></li> <li><del>— Ensure that the tailings storage facility embankment is keyed into the underlying material in a manner that would prevent down slope migration of potentially contaminated groundwater from the facility.</del></li> <li><del>— Place residue uniformly around the perimeter of the tailings storage facility via several slurry spigots.</del></li> <li><del>— Construct seepage collection structures at the foot of the tailings storage facility embankment and ensure that any captured seepage is pumped back to the tailings storage facility.</del></li> <li><del>— Install piezometers at the base of the tailings storage facility embankment and monitor these regularly to assess the integrity of the facility (see Section 4.5.6 of the EA).</del></li> </ul>	Continuous during the life of the Project.	Now addressed by Section 2.6.4 of the <i>Environmental Assessment</i> and Conditions 3(24) and 3(25).
	6.11 Ensure that the upper surface of the proposed Tailings Storage Facility is capped with a suitable clay or artificial liner in consultation with the relevant government agency.	During rehabilitation operations	

**Table A1-1 (Cont'd)**  
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Desired Outcome	Commitment	Timing	Justification
<b>6 GROUNDWATER (CONT'D)</b>			
Minimisation of groundwater contamination. (Cont'd)	6.12 Cap the tailings storage facility during final shaping and rehabilitation to minimise the potential for infiltration of surface water into the facility. The nature of the cap is to be determined in consultation with the relevant government agencies during preparation of the <i>Rehabilitation Management Plan</i> .	During final rehabilitation	
Ensure that the properties of the paste are appropriately understood and managed.	6.13 Undertake further testing of the tailings material to confirm the results of test work undertaken prior to the commencement of mining operations and the proposed paste fill operational, management and mitigation measures	Following commencement of processing operations and prior to the commencement of paste fill operations	
<b>7 SURFACE WATER</b>			
Appropriately document Surface Water, Sediment and Erosion management measures.	<b>General Management and Mitigation Measures</b> 7.1 <del>Prepare a detailed <i>Surface Water Monitoring Program</i> and <i>Erosion and Sediment Control Plan</i>, including a description of surface water management structures and procedures to ensure that the criteria identified in Section 4.1.3 of the <i>Environmental Assessment</i> and any additional criteria included in the Environment Protection Licence or project approval, assuming that they are granted, are achieved. This would include a description of how all potentially chemical-laden or contaminated water would be retained within the Project Site and returned to the process water system for re-use within the processing plant.</del>	<del>Prior to commencement of mining operations.</del>	Now addressed by Condition 3(26) to 3(31).
Minimise the volume of water required to be used for mining-related purposes	7.2 Ensure that the site access road is treated using chemical dust suppressants or similar to ensure that regular watering is not required.	Continuous during the life of the Project.	
Minimisation of erosion and sedimentation.	<b>Erosion and Sediment Control Measures</b> 7.3 <del>Ensure that best-practice erosion and sediment control measures as identified in Landcom (2004) <i>Managing Urban Stormwater: Soils and Construction</i>, 4th ed, Landcom, NSW, Sydney and Department of Environment and Climate Change (DECC). (2008a). <i>Managing Urban Stormwater: Soils and Construction. Volume 2E Mines and Quarries</i>. NSW Department of Environment and Climate Change, Sydney. Department of Environment and Climate Change (DECC). (2008b). <i>Managing Urban Stormwater: Soils and Construction. Volume 2C Unsealed Roads</i>. NSW Department of Environment and Climate Change, Sydney are implemented during both the construction and operational stages of the Project.</del>	<del>Continuous during the life of the Project.</del>	Now addressed by Condition 3(28).





**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>7 SURFACE WATER (CONT'D)</b>			
Minimisation of erosion and sedimentation. (Cont'd)	7.4 Construct appropriate sediment basins of sufficient size to contain a five-day, 75th percentile rain depth of 18mm during construction of the Project and a 20-day, 90th percentile rain depth of 73.7mm during operation of the Project.	Continuous during the life of the Project.	Now addressed by Condition 3(28).
	7.5 Ensure that sediment basins have a minimum of 0.6m of freeboard and a spillway that is sized and lined for stability in a 100-year annual recurrence interval (ARI) rain event.		
	7.6 Ensure that water discharged from the sediment basins has a total suspended sediment concentration of less than 50mg/L. This may require flocculation.		
	7.7 Ensure that accumulated water within sediment basins is removed from the basins within 5 days of the end of a rain event.		
	7.8 Ensure that water within the sediment basins is not used for mining-related activities unless the volume of the sediment basins has been included in the harvestable right calculations.		
	7.9 Ensure that the upper limit of the Sediment Storage Zone, as defined in Landcom (2004) Managing Urban Stormwater: Soils and Construction, 4th ed, Landcom, NSW, Sydney, is identified with a peg and accumulated sediment removed as required.		
	7.10 Ensure that surface water flows are diverted away from disturbed areas and that potentially sediment-laden flows from disturbed areas are diverted to sediment basins. All diversion structures would be sized and lined for stability in a 10-year ARI time-of-concentration rain event during construction of the Project and the 20-year ARI time-of-concentration rain event during operation of the Project.		
	7.11 Ensure that disturbed areas are stabilised through the use of vegetation or artificial covers to achieve a long-term C-factor of 0.05 (equivalent to 70% grass cover). Where such areas are to be subjected to channelized water flows, they should be stabilised within 10 days of completion of construction and before they convey any flows.		
7.12 Inspect all surface water control structures at least quarterly and following any rainfall event of more than 10mm in 24-hours to ensure their adequacy and identify where remedial action is required.			

**Table A1-1 (Cont'd)**  
**Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>7 SURFACE WATER (CONT'D)</b>			
Minimisation of erosion and sedimentation. (Cont'd)	7.13 Ensure that all roads within the Project Site are constructed in accordance with Department of Environment and Climate Change (DECC). (2008b). Managing Urban Stormwater: Soils and Construction. Volume 2C Unsealed Roads. NSW Department of Environment and Climate Change, Sydney.	Continuous during the life of the Project.	Now addressed by Condition 3(28).
	7.14 Construct table drains along the sides of roads within the Project Site, with regular turn-out drains constructed at-grade approximately every 50m.		
	7.15 Continue to maintain and upgrade, as required, the existing soil conservation measures in areas of active and stabilised gullying.		
Prevention of contamination of surface waters.	<b>Water Quality Measures</b>	Prior to the commencement of processing operations.	Now addressed by Condition 3(24).
	7.16 Ensure that the tailings storage facility is effectively sealed to prevent leakage.		Now addressed by Condition 3(25A).
	7.17 Ensure that potential surface water run on onto the tailings storage facility is diverted around the facility using a surface water diversion structured designed to effectively convey the 100-year ARI, time-of-concentration flow from the upstream catchment.	Continuous during the life of the Project.	Duplication of Commitment 6.5.
	7.18 Ensure that all fuel and chemical storage, delivery and handling areas are appropriately sealed and bunded and that overflow pipes are installed in a manner that would minimise the potential for pollution in the event of overflowing.		
	7.19 Ensure that no low grade ore material is used to construct the ROM Pad or is stored in areas where potentially low-pH leachate may flow to natural drainage		
	7.20 Ensure waste rock material to be used during site establishment operations is tested for acid generation potential and any potentially acid generating material is appropriately managed.		
7.21 Ensure that all water with the potential to contain processing reagents, hydrocarbons, other chemicals or lowered pH is contained within a bunded Contaminated Water Management Area and that all surface waters within the that area retained and pumped to the Process Water Tank for use within the processing plant.			







**Table A1-1 (Cont'd)  
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Desired Outcome	Commitment	Timing	Justification
<b>8 ABORIGINAL HERITAGE</b>			
Site activities are undertaken without impacting upon any Aboriginal heritage items.	8.1 Re-identify Sites GT0S1 to GT0S5 in the field with the assistance of a suitably qualified archaeologist and community representative(s). A fence a minimum of 20m on all sides of the artefact would then be erected, access to the fenced area would be restricted and appropriate signage would be displayed.	Prior to the commencement of site establishment operations.	Now addressed by Condition 3(37).
	8.2 Identify all sites on plans held by the Environmental Manager and Mine Surveyor and activities in the vicinity of these sites would be prohibited.		
	8.3 If items of suspected Aboriginal heritage significance are identified throughout the life of the Project, the following procedures would be implemented. <ul style="list-style-type: none"> <li>— <b>Step 1</b> - No further earth disturbing works would be undertaken in the vicinity of the suspected item of Aboriginal heritage significance.</li> <li>— <b>Step 2</b> - A buffer of 20m x 20m would be established around the suspected item of Aboriginal heritage significance. No unauthorised entry or earth disturbance would be allowed with this buffer zone until the area has been assessed.</li> <li>— <b>Step 3</b> - A qualified archaeologist or the OEH would be contacted to make an assessment of the discovery and prepare an assessment report, including recommended mitigation measures. The draft report would then be provided to representatives of the local Aboriginal community (including registered Aboriginal stakeholders identified during the preparation of the EA and subsequently) by way of consultation in accordance with the requirements of Stage 4 of <i>Aboriginal cultural heritage consultation requirements for proponents April 2010</i> (or subsequent versions).</li> </ul>	Continuous during the life of the Project.	
	8.4 If, throughout the life of the Project, suspected human remains are identified, the following procedures would be implemented. <ul style="list-style-type: none"> <li>— <b>Step 1</b> - the suspected skeletal remains would not be touched or disturbed.</li> <li>— <b>Step 2</b> - A buffer zone of 50m x 50m would be established around the suspected remains and all work in the vicinity of the suspected remains would be suspended until the area has been assessed.</li> <li>— <b>Step 3</b> - The NSW Police and the OEH would be contacted to make an assessment of the discovery. If appropriate, mitigation procedures would then be developed in consultation with the registered stakeholders.</li> </ul>	Continuous during the life of the Project.	Now addressed by Condition 3(37).

**Table A1-1 (Cont'd)**  
**Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>8 ABORIGINAL HERITAGE (CONT'D)</b>			
Site activities are undertaken without impacting upon any Aboriginal heritage items. (Cont'd)	8.4a Consult with the local Aboriginal community representatives in relation to sites or items of actual or suspected Aboriginal heritage significance and ways in which the Proponent and community can work co-operatively for the benefit of both.	Continuous during the life of the Project.	Now addressed by Condition 3(37).
<b>9 NON ABORIGINAL HERITAGE</b>			
Site activities are undertaken without impacting upon any significant non-Aboriginal heritage items.	9.1 Identify on plans held by the Environmental Manager and Mine Surveyor, where relevant, all identified sites and ensure that activities in the vicinity of those sites are appropriately managed.	Prior to the commencement of site establishment operations.	No Non-Aboriginal heritage sites identified within the Project Site. Commitment not relevant.
	9.2 If items of suspected non-Aboriginal heritage significance are identified throughout the life of the Project, the following procedures would be implemented. — <b>Step 1</b> - No further earth disturbing works would be undertaken in the vicinity of the suspected item of non-Aboriginal heritage significance.	Continuous during the life of the Project.	
	— <b>Step 2</b> - A buffer of 20m x 20m would be established around the suspected artefact. No unauthorised entry or earth disturbance would be allowed with this buffer zone until the area has been assessed. — <b>Step 3</b> - A <b>qualified</b> archaeologist would be contacted to make an assessment of the discovery. Mitigation procedures would then be developed and implemented based on the assessment.	Continuous during the life of the Project.	No Non-Aboriginal heritage sites identified within the Project Site. Commitment not relevant.
<b>10 TRAFFIC AND TRANSPORTATION</b>			
Achieve safe and efficient transport operations.	<b>Site Access Road</b>		Site access road constructed and has been inspected and approved by Palerang Council.
	10.1 Ensure horizontal alignment complying with the maximum grades and changes of grade outlined in the Australian Standards for Off-Street Commercial Vehicle Facilities. Maximum vertical grades would be approximately 10%.	During site establishment operations.	
	10.2 Grade the gravel surface of the road treated with chemical suppressants to minimise dust generation.	Continuous during the life of the Project.	
	10.3 Construct the road layout to ensure that all vehicles would enter and exit the site in a forward direction.	During site establishment operations.	
	10.4 Seal the initial 200m of the site access road in a manner that would prevent tracking of material onto Majors Creek Road.		





**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>10 TRAFFIC AND TRANSPORTATION (CONT'D)</b>			
Achieve safe and efficient transport operations. (Cont'd)	<b>Operational Controls</b>		
	10.5 <del>Load all heavy vehicles transporting concentrate using a front-end loader fitted with a bucket load indicator. All vehicles would be loaded in a manner that would ensure that they were not overloaded.</del>	Continuous during the life of the Project.	Concentrate transportation no longer proposed.
	10.6 <del>Establish a speed limit of 40km/hr on the site access road for heavy vehicles, 60km/hr for light vehicles and 20km/hr for all vehicles in the operational sections of the Project Site.</del>	During site establishment operations.	Adjusted to reflect site operational procedures.
	10.7 <del>Ensure all Proponent-controlled heavy vehicle movements are scheduled for between 7:00am and 6:00pm Monday to Saturday and 8:00am and 6:00pm Sunday. Furthermore, the movement of such heavy vehicles to and from the Project Site would be avoided during the hours of 7:00am to 8:30am and 3:00pm to 5:00pm on school days to avoid potential conflict with the local school bus services.</del>	Continuous during the life of the Project.	Now addressed by Condition 3(41).
	10.8 <del>Develop and enforce a Code of Conduct for all drivers for all heavy vehicles that travel to and from the Project Site regularly. The Code of Conduct would stipulate safe driving practices must be maintained at all times and nominate the maximum vehicle speed on Majors Creek Road of 80km/hr for heavy vehicles travelling to and from the Project Site. The code would also include specific requirements for practices to be adopted during periods of fog, such use of headlights / fog lights and adopting vehicle speeds appropriate to the conditions as required, as well as limiting noisy driving practices in the vicinity of residences.</del>	During site establishment operations.	Signposted speed limit has been reduced to 80km/h by RMS/Palerang Council.
	10.9 <del>Approach Palerang Council with a view to erecting signs in appropriate locations requesting heavy vehicles to consider residents and limit noisy driving practices.</del>		Palerang Council have been approached and indicated that they did not believe the signs to be necessary.
10.10 <del>Investigate immediately any complaints received and substantiated incidents acted on decisively, which could include the banning the offending driver(s) from the Project Site.</del>	Continuous during the life of the Project.	Now addressed by Condition 5(1)(e).	

**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>10 TRAFFIC AND TRANSPORTATION (CONT'D)</b>			
Achieve safe and efficient transport operations. (Cont'd)	<b>Road Upgrades</b>		Works have been completed.
	<del>10.11 Provide centreline road marking along the full length of Majors Creek Road between the Araluen Road and Majors Creek immediately, irrespective of whether project approval is granted. This will assist drivers using Majors Creek Road to drive on the left of the centreline at all times, particularly those times of low visibility, and will assist in maintaining road safety.</del>	<del>During site establishment operations. (Note: this was completed in November 2010).</del>	
	<del>10.12 Provide signage/delineation and appropriate barriers such as guardrails at the culverts on Majors Creek Road at 4.4km and 4.9km from the intersection of Majors Creek Road and Araluen Road, as well as at the bridge structure over Honeysuckle Creek. The Proponent has committed to completing this road upgrade prior to the commencement of the operational phase of transport operations.</del>	<del>During site establishment operations.</del>	
	<del>10.13 Provide pavement widening on curves and crests on Majors Creek Road at the following chainages, as measured from the intersection of Majors Creek road and Araluen Road.</del>		
	<b>Road Maintenance</b>		
	<del>10.14 Formalise a Section 94 Contributions arrangement or section 93F Planning Agreement for ongoing road maintenance with Palerang Council</del>	<del>Prior to the commencement of transportation operations.</del>	<del>Now addressed by Condition 2(11).</del>
<b>11 AIR QUALITY AND ENERGY</b>			
<del>Site activities are undertaken without exceeding OEH air quality criteria or adversely impacting upon surrounding receivers.</del>	<del>11.1 Implement "best practice" management for pollution control.</del>	<del>Continuous during the life of the Project.</del>	<del>Now addressed by Condition 3(14).</del>
<b>12 VISUAL AMENITY</b>			
<del>Limit the visibility of operational areas from nearby residences and Majors Creek Road.</del>	<del>12.1 Construct and revegetate a 5m high bund on the southern and western edge of the ROM pad as soon as practicable after the commencement of mining operations. This bund, together with the southern and western faces of the ROM pad, would be temporarily covered with soil material and revegetated with appropriate species as soon as practicable after completion to ensure that the visual impact of the ROM pad and bund is minimised to the greatest extent practicable.</del>	<del>During site establishment operations</del>	<del>Now addressed by Condition 3(45).</del>





**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>12 VISUAL AMENITY (CONT'D)</b>			
Limit the visibility of operational areas from nearby residences and Majors Creek Road. (Cont'd)	<del>12.2 Ensure progressive reshaping and rehabilitation of areas that are no longer required for mining related purposes.</del>	<del>During progressive rehabilitation operations.</del>	Now addressed by Condition 3(53).
	12.3 Continuation of the existing tree planting program to limit views of the Project Site from areas to the southwest, south and southeast of the Project Site.	During progressive rehabilitation operations.	
	12.4 Construction of the processing plant and other infrastructure within the Project Site from non-reflective, neutral-coloured material.	During site establishment operations.	
	<del>12.5 Selection and placement of permanent and temporary lights such that the lights — do not impact on the vision of motorists using Majors Creek Road; — do not point towards surrounding residences; or — minimise the 'loom' created by the lights.</del>	<del>During site establishment operations.</del>	Now addressed by Condition 3(44)(a).
	12.6 Consider any reasonable request by a potentially affected resident for assistance to create a visual screen adjacent to their residence through planting of fast growing vegetation and/or landscaping where such a screen would effectively reduce the visual impact of the Proponent's activities during the life of the Project.	Continuous during the life of the Project	
<b>13 SOILS AND LAND CAPABILITY</b>			
Maintenance of soil value for rehabilitation and minimisation of soil loss through erosion.	13.1 Strip soil materials to the depths identified in Table 2.2 of the <i>Environmental Assessment</i> .	During site establishment operations.	
	13.2 Strip soil materials only when they are moderately moist to preserve soil structure.		
	13.3 Stockpile topsoil and subsoil materials separately.		
	13.4 Construct soil stockpiles as low, flat, elongated mounds on slopes of less than 1:10 (V:H). Topsoil stockpiles would be less than 2m high and subsoil stockpiles would be less than 3m high.		
	13.5 Ensure that soil stockpiles and rehabilitated areas achieve a 70% vegetative cover within 10 days of formation. This may be achieved through use of recycled organic material.		

**Table A1-1 (Cont'd)**  
**Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>13 SOILS AND LAND CAPABILITY (CONT'D)</b>			
Maximising the potential for successful rehabilitation of disturbed sections of the Project Site	13.6 Place soil material in areas to be rehabilitated in the same stratigraphic order in which they were removed. Topsoils of one soil landscape unit may be mixed with topsoils soils of the other landscape unit. Similarly, subsoils of one soil landscape unit may be mixed with subsoils soils of the other landscape unit.	During rehabilitation operations.	
Minimise the potential for erosion and sedimentation	<del>13.7 Ensure that ground disturbing activities are limited to the period from 1 March to 30 November, unless measure identified in Landcom (2004) Managing Urban Stormwater: Soils and Construction, 4th ed, Landcom, NSW, Sydney and Department of Environment and Climate Change (DECC). (2008a). Managing Urban Stormwater: Soils and Construction. Volume 2E Mines and Quarries. NSW Department of Environment and Climate Change, Sydney. Department of Environment and Climate Change (DECC). (2008b). Managing Urban Stormwater: Soils and Construction. Volume 2C Unsealed Roads. NSW Department of Environment and Climate Change, Sydney are implemented, including ensuring that soils are not exposed during any period when the three-day weather forecast suggests rain is likely.</del>	During site establishment operations.	Now addressed by Condition 3(28).
	<del>13.8 Ensure that slope lengths are no longer than 80m.</del>		
	<del>13.9 Ensure that run-on from upslope is diverted away from disturbed areas.</del>		
<b>14 SOCIO-ECONOMIC</b>			
Maximise the positive impacts and minimise any actual or perceived adverse impacts on the social fabric or facilities available to the community surrounding the Project Site.	14.1 Engage each of the communities surrounding the Project Site in regular dialogue in relation to the proposed and ongoing operation of the Project and maintain an "open door" policy for any member of those communities who wishes to discuss any aspect of the Project.	Prior to, during and following the life of the Project.	
	14.2 Proactively and regularly consult with those residents most likely to be adversely impacted by the Project, particularly those within the Majors Creek and Araluen Communities.		
	14.3 Continue to support community organisations, groups and events, as appropriate, and review any request by a community organisation for support or assistance throughout the life of the Project. Particular emphasis would be placed on providing support to those organisations, groups or events that service the communities in Majors Creek, Araluen or Braidwood.		





**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>14 SOCIO-ECONOMIC (CONT'D)</b>			
Maximise the positive impacts and minimise any actual or perceived adverse impacts on the social fabric or facilities available to the community surrounding the Project Site. (Cont'd)	14.4 <del>Form and maintain a Community Consultative Committee (CCC), including representative members of the community, Palerang Council and one representative from Eurobodalla Shire Council. It is noted that the Proponent has previously consulted with the Majors Creek Community Liaison Committee. The Proponent would continue to do so, either as part of the CCC or separately.</del>	Prior to, during and following the life of the Project.	Now addressed by Condition 5(5).
	14.5 <del>Regularly brief the CCC and wider community on activities within the Project Site and seek feedback in relation to Project related impacts whether actual or perceived. In addition, seek advice in relation the most appropriate manner in which to provide assistance to the community in an effective, fair and equitable manner.</del>		Now addressed by Condition 5(5).
	14.6 Advertise and maintain a community <del>complaints telephone</del> <u>Information line 1800 732 002.</u>		Updated to reflect the current Dargues Info Line details.
	14.7 Give preference when engaging new employees, where practicable, to candidates who are part of the Majors Creek, Araluen or Braidwood communities over candidates with equivalent experience and qualifications based elsewhere and ensure that the mining and other contractors do so as well.		
	14.8 Encourage the involvement of the local Aboriginal community in the workforce.		
	14.9 Encourage and support participation of locally based employees and contractors in appropriate training or education programs that would provide skills and qualifications that may be of use to encourage and further develop economic activity within the surrounding communities following completion of the Project.		
	14.10 Give preference, where practicable, to suppliers of equipment, services or consumables located within the Palerang LGA.		
	14.11 Assist community members and others, as appropriate, to establish complimentary businesses within the Palerang LGA where those businesses would provide a benefit to the community through increased economic activity or development.		
14.12 Assist Palerang Council to promote and encourage economic development that would continue beyond the life of the Project.			

**Table A1-1 (Cont'd)**  
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Desired Outcome	Commitment	Timing	Justification
<b>14 SOCIO-ECONOMIC (CONT'D)</b>			
Maximise the positive impacts and minimise any actual or perceived adverse impacts on the social fabric or facilities available to the community surrounding the Project Site. (Cont'd)	14.13 Ensure that infrastructure and services installed for the Project, including the electricity transmission facilities, road improvements and water supply bores, remain available for alternative uses during and/or following completion of the Project.	Prior to, during and following the life of the Project.	
	14.14 Encourage and support, in consultation with the local community, the provision of services to the community. These may include health, education, transportation and other services.		
	<del>14.15 Prepare and implement a <i>Property Vegetation Plan</i> as described in Section 2.15, of the <i>Environmental Assessment</i> including continued management of weeds, pests and bushfire risks on land held by the Proponent in consultation with surrounding landowners.</del>		Now addressed by Conditions 3(35) and 3(50).
	14.16 Ensure that the land capability of those sections of the final landform to be used for agricultural purposes is similar to the current land capability.		
<b>15 ENVIRONMENTAL MONITORING</b>			
Ongoing monitoring and reporting of Project related environmental impacts.	<b>Noise</b>	Prior to, during and following the life of the Project.	Now addressed by Condition 3(5).
	<del>15.1 Present the results of the monitoring program in the Annual Review that would be prepared for the Project to ensure that noise and vibration impacts associated with the Project are managed appropriately.</del>		
	<del>15.2 Prepare a Noise Management Plan and a Blast Management Plan prior to commencement of site construction. These would be developed in consultation with the OEH and the local community, and include the following elements:</del>		
	<del>— Noise compliance monitoring would be undertaken during both the daytime and night time periods during the site establishment phase.</del>		
	<del>— Routine noise compliance monitoring would be conducted on a quarterly basis during the first two years of the operational stage of the Project. The frequency of ongoing monitoring would be determined based.</del>		
	<del>— Suitable monitoring locations would include R107, R108, R31, R30, R27, R34 and R10 which are the closest locations surrounding the Project Site and compliance at these locations would imply compliance at more distance receivers.</del>		
<del>— Noise monitoring would be undertaken by a suitable qualified and experienced acoustical consultant.</del>			







**Table A1-1 (Cont'd)  
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Desired Outcome	Commitment	Timing	Justification
<b>15 ENVIRONMENTAL MONITORING (CONT'D)</b>			
Ongoing monitoring and reporting of Project-related environmental impacts.-(Cont'd)	<b>Ecology</b>	Prior to, during and following the life of the Project until relevant government agencies agree that further monitoring is not required.	Now addressed by Condition 3(35).
	15.3 — Ensure that the following ecology-related monitoring is undertaken during the life of the Project. The results of the monitoring program would be reported in each Annual Review prepared for the Project.		
	— Ensure that searches for Major's Creek Leek Orchid are undertaken during the flowering period for the orchid, both within suitable habitat areas within the Project Site and within the Majors Creek Cemetery.		
	— Ensure that all areas undergoing rehabilitation are be monitored on a 6 monthly basis to determine the success or otherwise of the management, mitigation and ameliorative measures and the rehabilitation programs.		
	— Establish a set of photographic reference points and ensure that photographs are taken at six monthly intervals to document activities within the Project Site, including weed control and revegetation actions.		
	— Ensure that flora and fauna species and vegetation communities within the Project Site are monitored regularly, indicatively every two years, to identify any Project-related impacts.		
	<b>Groundwater</b>		
	15.4 — Monitoring of groundwater levels in the bores, exploration holes and workings identified in <b>Table 4.21</b> of the <i>Environmental Assessment</i> as well as other bores and springs surrounding the Project Site as required or as requested by landholders, using manual or automated methods.		
	15.5 — Continuous monitoring of groundwater levels in 8 bores/exploration holes using an automated standing water level monitor to determine the groundwater response following rainfall events.		
	15.6 — Monitoring in the field of pH, temperature and EC of groundwater in the bores, exploration holes and workings identified in <b>Table 4.21</b> of the <i>Environmental Assessment</i> as well as other bores and springs surrounding the Project Site as required or as requested by landholders.		

**Table A1-1 (Cont'd)  
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Desired Outcome	Commitment	Timing	Justification
<b>15 ENVIRONMENTAL MONITORING (CONT'D)</b>			
Ongoing monitoring and reporting of Project-related environmental impacts.-(Cont'd)	<p>15.7 Monthly monitoring in the laboratory of groundwater in the bores, exploration holes and workings identified in <b>Table 4.21</b> of the <i>Environmental Assessment</i> for the following parameters:</p> <ul style="list-style-type: none"> <li>— Alkalinity.</li> <li>— Major cations and anions.</li> <li>— Nutrients — (ammonia, nitrate, nitrite).</li> <li>— Metals — (iron, lead, chromium, cadmium, zinc, arsenic, copper and nickel).</li> </ul> <p>Collection of these samples for laboratory analysis will reasonably coincide with the surface monitoring as described in commitment 15.12.</p>	Prior to, during and following the life of the Project until relevant government agencies agree that further monitoring is not required.	Now addressed by Condition 3(30).
	<p>15.8 Continuous monitoring of the volumes of all water pumped or permitted to flow around the Project Site using inline meters. This would include water pumped or permitted to flow:</p> <ul style="list-style-type: none"> <li>— from the Dargues Reef Mine to the surface and visa versa;</li> <li>— from the harvestable rights dams;</li> <li>— from the historic workings; and</li> <li>— to and from the tailings storage facility.</li> </ul>		
	<p>15.9 Review of all data on receipt against previous monitoring results. Where the review indicates a sudden or unexpected change in a bore, then further investigations by an independent expert would be initiated. If the investigation indicates that the Project has caused the sudden or unexpected change, then the Proponent would negotiate an appropriate arrangement with the owner of the bore.</p>		
	<p>15.10 Undertake a formal assessment of the groundwater model within two years of the commencement of mining operations to ensure that the observed groundwater data matches the expected groundwater impacts.</p>	Prior to, during and following the life of the Project.	
	<p>15.11 Annual analysis of monitoring data and trends in the site's Annual Review.</p>	Prior to, during and following the life of the Project until relevant government agencies agree that further monitoring is not required.	





**Table A1-1 (Cont'd)  
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Desired Outcome	Commitment	Timing	Justification
<b>15 ENVIRONMENTAL MONITORING (CONT'D)</b>			
Ongoing monitoring and reporting of Project-related environmental impacts. (Cont'd)	15.11A The monitoring program to be prepared as part of the Groundwater Monitoring Program pursuant to condition 30(d) in schedule 3 of the approval is to be a monitoring program during the life of the project and until the conclusion of rehabilitation, where appropriate.	During the life of the project and until the conclusion of rehabilitation, where appropriate.	Now addressed by Condition 3(30).
	<p><b>Surface Water</b></p> <p>15.12 Undertake monthly surface water monitoring at the following locations (<b>Figure 4.3</b> of the EA).</p> <ul style="list-style-type: none"> <li>— Location 1— Majors Creek upstream of the confluence of Spring &amp; Major's Creek.</li> <li>— Location 2— Majors Creek downstream of the confluence of Spring &amp; Major's Creek.</li> <li>— Location 3— downstream of the tailings storage facility. It is noted that this sampling location would be incorporated into the Tailings Management Plan.</li> <li>— Location 4— Spring Creek downstream of main Project infrastructure and sediment basin outlets.</li> <li>— At a range of locations downstream of the Majors Creek State Conservation Area.</li> <li>— Discharge point for the compensatory flows (sampling to be undertaken initially daily for the first three months of the program, with the frequency to be increased in consultation with the relevant government agency after that period).</li> </ul>	Prior to, during and following the life of the Project.	Now addressed by Condition 3(26) to 3(31).
	15.12A The monitoring program to be prepared as part of the Surface Water Monitoring Program pursuant to condition 29(d) in schedule 3 of the approval is to include a program to monitor pH and electrical conductivity, in real time, from at least three locations, including locations within and downstream of the tailings storage facility.		
	15.12B Install two gauging stations on Majors Creek, one upstream and one downstream of the confluence with Spring Creek, capable of continuous measurement of stream flow.		

**Table A1-1 (Cont'd)**  
**Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>15 ENVIRONMENTAL MONITORING (CONT'D)</b>			
Ongoing monitoring and reporting of Project-related environmental impacts.-(Cont'd)	<p>15.12C The Water Management Plan should include provision for:</p> <ul style="list-style-type: none"> <li>— the installation of a V-notch weir on Spring Creek downstream of the mine and below the confluence with a major gully coming in from the east (approximate coordinates 749275E, 6064175N (MGA, Zone 56));</li> <li>— the investigation of the hydrogeology of the tailings storage facility and the installation of monitoring bores around the tailings storage facility;</li> <li>— the installation of a monitoring bore to the south east where the sensitivity analysis indicates a possible extension of the 1m drawdown contour (approximate coordinates- depending on landholder approval — 750900E, 6064100N (MGA, Zone 56), or alternative location within the project site — 750350E, 6064550N (MGA, Zone 56));</li> <li>— the installation of monitoring bores DRWB 09 and DRWB 10;</li> <li>— the installation of a pair of bores adjacent to Spring Creek at the mapped intersection of the dominant lineament (fault) trending south east towards and along Majors Creek (approximate coordinates 749350E, 6064175N (MGA, Zone 56)).</li> </ul>	Within 12 months of the commencement of construction.	Now addressed by Condition 3(26) to 3(31).
	<p>15.13 Undertake monthly sampling for the following:</p> <p>Field measurements:</p> <ul style="list-style-type: none"> <li>— Field pH.</li> <li>— Field Electrical Conductivity.</li> <li>— Dissolved Oxygen.</li> <li>— Oxidation Reduction Potential.</li> <li>— Temperature.</li> </ul> <p>Laboratory analysis:</p> <ul style="list-style-type: none"> <li>— pH.</li> <li>— Electrical Conductivity.</li> <li>— Total Suspended Solids.</li> <li>— Major cations i.e. sodium, potassium, calcium.</li> <li>— Major anions i.e. chloride and sulphate.</li> </ul>	Prior to, during and following the life of the Project.	Now addressed by Condition 3(26) to 3(31).





**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>15 ENVIRONMENTAL MONITORING (CONT'D)</b>			
Ongoing monitoring and reporting of Project-related environmental impacts.-(Cont'd)	<ul style="list-style-type: none"> <li>— Total Kjeldahl Nitrogen (organic nitrogen plus ammonia nitrogen).</li> <li>— Total Oxidized Nitrogen (also referred to as NOx-N = nitrate + nitrite nitrogen forms).</li> <li>— Ammonia Nitrogen.</li> <li>— Total Phosphorus and Reactive Phosphorus.</li> <li>— Metalloids (aluminium, arsenic, total iron and filterable iron, zinc).</li> <li>— The frequency of monitoring is to be reviewed in consultation with the relevant government agency after completion of the initial 12 months of monitoring.</li> </ul>	Prior to, during and following the life of the Project.	Now addressed by Condition 3(26) to 3(31).
	15.13A The monitoring program to be prepared as part of the Surface Water Monitoring Program pursuant to condition 29(d) in schedule 3 of the approval is to be a monitoring program during the life of the project and until the conclusion of rehabilitation, where appropriate.	During the life of the project and until the conclusion of rehabilitation, where appropriate.	
	<p><b>Notification</b></p> <p>15.13B The protocol for the investigation, notification and mitigation of any exceedances of the surface water, stream health and groundwater assessment criteria, which is to be included in the Surface and Ground Water Response Plan (condition 31(b) in schedule 3 of the approval), is to include provision for the notification of ESC of any such exceedances within 7 days of the exceedance being detected, and subsequently, once an appropriate response has been identified with the relevant government agencies, any other water user downstream of the Project Site who registers their interest to be notified.</p> <p><b>Water Management Plan (incorporating Surface Water Monitoring Program, Groundwater Monitoring Program and Surface and Ground Water Response Plan)</b></p> <p>15.13C The objectives of the abovementioned programs and plans which are required under the approval, are to generally include, but are not limited to:</p> <ul style="list-style-type: none"> <li>• ensuring that the disposal of material in the tailings storage facility, and management of that facility, does not cause material harm to the environment;</li> </ul>	Prior to, during and following the life of the Project.	Now addressed by Condition 3(26) to 3(31).

**Table A1-1 (Cont'd)**  
**Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>15 ENVIRONMENTAL MONITORING (CONT'D)</b>			
Ongoing monitoring and reporting of Project-related environmental impacts.-(Cont'd)	<ul style="list-style-type: none"> <li>taking all necessary measures to protect the quality of the water, as drinking water, for existing downstream users, including the water supply for the Eurobodalla Shire; and</li> <li>implementing appropriate monitoring and response measures to ensure that action is taken to promptly mitigate any adverse impacts of the project on surface water and groundwater so that drinking water of acceptable quality continues to be available to downstream users, including Eurobodalla Shire.</li> </ul>	Prior to, during and following the life of the Project.	Now addressed by Condition 3(26) to 3(31).
	<p><b>Air Quality</b></p> <p>15.14 Implement an Air Quality Monitoring Program in consultation with OEH and the surrounding Community. Given the relatively low level of impact associated with the Project, it is anticipated that this would be restricted to the installation and management of several dust deposition gauges surrounding the Project Site.</p>	Prior to, during and following the life of the Project.	Now addressed by Condition 3(17).
	<p><b>Eurobodalla Shire Council</b></p> <p>15.14A The Proponent shall pay Eurobodalla Shire Council the following contribution each calendar year:</p> <ul style="list-style-type: none"> <li>the reasonable costs, up to a maximum of \$10,000, of Eurobodalla Shire Council engaging its own expert to: <ul style="list-style-type: none"> <li>undertake a review of the Water Management Plan required under the approval; and</li> <li>undertake a peer review of the Annual Review carried out by the Proponent pursuant to condition 3 in Schedule 5 of the approval.</li> </ul> </li> </ul> <p>As part of these reviews undertaken by Eurobodalla Shire Council's expert, the Proponent will provide that expert with reasonable access to the tailings storage facility.</p> <p>A copy of the draft report produced by Eurobodalla Shire Council's expert pursuant to each of the abovementioned reviews must be made available to the Proponent for its review and comment prior to the report being finalised by Eurobodalla Shire Council's expert.</p> <p>This contribution must be indexed according to the CPI at the time of each payment.</p>	During active mining operations and until the completion of rehabilitation operations.	





**Table A1-1 (Cont'd)  
Revised Statement of Commitments**

Desired Outcome	Commitment	Timing	Justification
<b>15 ENVIRONMENTAL MONITORING (CONT'D)</b>			
Ongoing monitoring and reporting of Project-related environmental impacts. (Cont'd)	15.14B The surface water quality criteria to be included in the Surface Water Monitoring Program pursuant to condition 29(c) in schedule 3 of the approval is to take into account, among other things, that the surface water sources are located within the drinking water catchment for the Eurobodalla Shire.	During active mining operations and until the completion of rehabilitation operations.	
<b>16 DOCUMENTATION</b>			
Ensure Appropriate documentation of the proposed mining-related activities.	16.1 The Proponent would prepare the following documentation- <ul style="list-style-type: none"> <li>— Mining Operations Plan, including a Rehabilitation Management Plan.</li> <li>— Noise Management Plan.</li> <li>— Air Quality and Greenhouse Gas Management Plan.</li> <li>— Water Management Plan.</li> <li>— Biodiversity Management Plan.</li> <li>— Aboriginal Heritage Management Plan.</li> <li>— Traffic Management Plan.</li> <li>— Waste Management Plan.</li> <li>— Bushfire Management Plan.</li> </ul>	Prior to the commencement of site establishment operations.	Now addressed by the conditions of consent related to the preparation of Management Plans
		— Blast Management Plan.	
<b>17 OTHER</b>			
Insurance	17.1 The Proponent shall effect and maintain a public liability insurance policy to the amount of \$60,000,000.  The policy maintained under this commitment must name Eurobodalla Shire Council as an interested party and a beneficiary to the policy to the extent of the acts or omissions of the Proponent, for the purposes of s48 of the Insurance Contracts Act 1984 (Cth).	During active processing operations until the completion of rehabilitation operations.	

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