

Angus Place Response to recommendations of Independent Audit Completed 6/6/2014

As required under Schedule 5 Condition 9 of Project Approval 06__0021 Table 1 below responds to the recommendations of Conditions assessed as non-compliant or indeterminate, while Table 2 addresses additional recommendations from the independent audit not related to non-compliances.

Table 1: Response to Non-complaint or indeterminate conditions

Condition / Requirement No.	Summary of Condition / Requirement	Compliance Status and Recommendation	Angus Place Response
PA 06_0021, S3-5	<p>Surface & Ground Water – Pollution Of Waters</p> <p>Except as may be expressly provided by a EPA Environment Protection Licence, the Proponent shall comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i> during the carrying out of the project.</p>	<p><u>Pit Top</u> Compliant <u>Ventilation Facility</u> Indeterminate</p> <p>Recommendation</p> <p>Angus Place to consider a variation to EPL 467 so that the two sediment basins at the Ventilation Facility are included as LDPs in order for discharges to be licensed. Develop and implement a TARP or similar for site personnel to operate the sediment basins in a way that minimises discharge events, and treats water as soon as possible after rain events.</p> <p>Ensure the sediment basins are immediately treated and emptied (in accordance with this condition) and have adequate capacity for next rainfall event.</p>	<p>Angus Place will discuss with the EPA the discharge of rainwater from the sediment basins at the ventilation facility.</p> <p>The current TARP developed by site will be updated to incorporate the Ventilation Facility.</p>
PA 06_0021, S3-11A	<p>Mod-1</p> <p>The proponent shall revise the Surface Water Monitoring Program for investigating and monitoring water quality and aquatic ecosystems in the Kangaroo Creek/ Coxs River System upstream and downstream of the projects licenced discharge</p>	<p>Non- compliant (for late submission)</p>	<p>Noted- The site is now utilising a compliance database to manage timing of submissions.</p>

	pints, in consultation with the EPA and SCA and to the satisfaction of the Director general		
PA 06_0021, S3-17	<p>Noise</p> <p>From no later than 28 February 2007, the Proponent shall ensure that the noise generated by the project, including the Proponent's operation of the haul road to the Wallerawang power station, does not exceed the noise impact assessment criteria presented in Table 6 at any residence on privately-owned land.</p>	Non-compliant based on three non-compliances in 2011.	No noise exceedances since 2012. Angus Place will continue to monitor noise levels against PA Limits. Previous exceedances have been associated with the operation of the Wallerawang haul road which is no longer a component of the Angus Place Project.
PA 06_0021, S3-38	<p>Mod – 2 Ventilation Facilities</p> <p>The Proponent shall prepare and implement a Construction Environmental Management Plan to the satisfaction of the Director-General. This Plan must:</p> <ol style="list-style-type: none"> a) be prepared by a suitably qualified and experienced person/s; b) be approved by the Director-General prior to the commencement of vegetation clearance or ground disturbance activities caused by construction of the Mod – 2 ventilation facilities and their supporting surface infrastructure and access tracks/roads; and c) identify environmental impacts and potential impacts of these activities and describe measures to mitigate and manage these impacts, including impacts associated with: <ul style="list-style-type: none"> – noise emissions; – visual amenity; – night lighting; – Aboriginal cultural heritage; – air quality; – traffic management; – public safety; – bushfire management; – waste and hazardous materials management; – vegetation removal (including identification of tree 	<p>Preparation – Compliant</p> <p>Implementation – Non-compliant</p> <p>Recommendation</p> <p>Implement the recommendations of the independent soil and erosion expert (Soil Conservation Service, 2013).</p> <p>Conduct regular inspection of soil and erosion control devices at the site to ensure they are working correctly.</p> <p>The Ventilation Facility induction material should focus on specific environmental issues associated with the site.</p> <p>Update the 'As Built' plan of the ventilation facility to show the location of the mud pits associated with the shaft drilling works.</p> <p>Ensure adequate environmental resources are available for appropriate levels of management at the Ventilation Facility.</p>	<p>Noted-Recommendations from soil and erosion expert have been completed subsequent to audit inspection.</p> <p>Soil and erosion controls will continue to be inspected and maintained as needed.</p> <p>The induction for the Ventilation Facility encompasses all aspects associated with management of the construction site of the mine (i.e. safety). The CEMP is a component of the induction and addresses environmental issues.</p> <p>The CEMP will be updated to show 'as-built' layout.</p>

	<p>hollows, provision for their salvage (where feasible), and provision for their relocation and/or replacement in adjacent woodland); and erosion and sediment control.</p>		
<p>EPL 467 A3 A3.1</p>	<p>Information supplied to the EPA Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence. In this condition the reference to "the licence application" includes a reference to: a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (savings and Transitional) Regulation 1998; and The licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.</p>	<p>Indeterminate as the site does not hold a copy of the original EPL application. EPA also unable to obtain a copy of the original EPL application with the earliest licence available from 1991.</p>	<p>The modification of this condition will be discussed with the EPA to reflect the sites current Project Approval (including modifications) rather than a historical licence application.</p>
<p>EPL 467 3 L1 L1.1</p>	<p>Limit Conditions Pollution of waters Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.</p>	<p><u>Pit Top</u> Compliant <u>Ventilation Facility</u> Indeterminate Recommendation Angus Place to consider a variation to EPL 467 so that the two sediment basins at the Ventilation Facility are included as LDPs in order for discharges to be licensed. Develop and implement a TARP or similar for site personnel to operate the sediment basin in a way that minimises discharge events, and treats water as soon as possible after rain events. Ensure the sediment basins are immediately treated and emptied (in</p>	<p>Response as per PA 06_0021, S3-5</p>

		accordance with this condition) and have adequate capacity for next rainfall event.	
EPL 467 L2.1	Concentration Limits For each monitoring/discharge point or utilisation area specified in the table below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.	Non-compliant (2011 & 2012) Compliant 2013 to time of the audit	Noted-Improvements in site water management system in place at time of audit and effectiveness demonstrated by compliance from 2013.
EPL 467 L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	Non-compliant (2011) Compliant 2012 to time of the audit	Noted-Compliant at time of the audit- Angus Place has established a water treatment system to control pH that has proven effective since 2012.
EPL 467 L4.1	Noise from the premises must not exceed: a) 42 dB(A) LAeq(15 minute) during the day (7am to 6pm); and b) 38 dB(A) LAeq(15 minute) during the evening (6pm to 10pm); and c) at all other times 36 dB(A) LAeq (15 minute), except as expressly provided by this licence at the Sharpe residence; d) 41 dB(A) LAeq(15 minute) during the day (7am to 6pm); and e) 37 dB(A) LAeq(15 minute) during the evening (6pm to 10pm); and f) at all other times 35 dB(A) LAeq (15 minute), except as expressly provided by this licence at the Mason (west) residence and other Wolgan road properties; and g) 44 dB(A) LAeq(15 minute) during the day (7am to 6pm); and h) 40 dB(A) LAeq(15 minute) during the evening (6pm to 10pm); and i) at all other times 35 dB(A) LAeq (15 minute), except as expressly provided by this licence at Lidsdale village residences.	Non-compliant based on three non-compliances in 2011.	Response as per PA 06_0021, S3-17.

	Where LAeq means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.														
EPL 467 M7 M7.1	<p>Requirement to monitor volume or mass</p> <p>For each discharge point or utilisation area specified below, the licensee must monitor:</p> <p>a) the volume of liquids discharged to water or applied to the area;</p> <p>b) the mass of solids applied to the area;</p> <p>c) the mass of pollutants emitted to the air;</p> <p>at the frequency and using the method and units of measure, specified below:</p> <p>Point 1</p> <table border="1"> <thead> <tr> <th>Frequency</th> <th>Unit of Measure</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Daily</td> <td>Kilolitres per day</td> <td>Weir structure and level sensor</td> </tr> </tbody> </table> <p>Point 5</p> <table border="1"> <thead> <tr> <th>Frequency</th> <th>Unit of Measure</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Weekly during any discharge</td> <td>Kilolitres per day</td> <td>By calculation (volume flow rate or pump capacity multiplied by operating time)</td> </tr> </tbody> </table>	Frequency	Unit of Measure	Sampling Method	Daily	Kilolitres per day	Weir structure and level sensor	Frequency	Unit of Measure	Sampling Method	Weekly during any discharge	Kilolitres per day	By calculation (volume flow rate or pump capacity multiplied by operating time)	Non-compliant 2011 Compliant 2012 to the time of the audit.	Noted-Compliant at time of the audit- LDP5 volumetric monitoring system has been upgraded since 2012.
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CCL 704 7	<p>Rehabilitation</p> <p>Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.</p>	Indeterminate Recommendation Commence progressive rehabilitation at Kerosene Vale and Vale of Clwydd No 2.	Angus Place will continue to liaise with DTIRIS-DRE with respect to rehabilitation of Kerosene Vale and Vale of Clwydd No 2.												
CCL 704 18	<p>Prevention of Soil Erosion and Pollution</p> <p>Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless</p>	Non-compliant See recommendations for Condition L2.1 and L2.2 of EPL 467 of Appendix A.	Response as per PA 06_0021, S3-5												

	otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.		
CCL 704 32		Indeterminate Recommendation It is recommended that site review the requirements of the Sydney Water Catchment Management Act 1998 and ensure that all conditions of the Act as relevant to operations at Angus Place are being complied with.	Angus Place will review Sydney Water Catchment Management Act 1998 where relevant to Angus Place operations. OR Angus Place will continue to consult with SCA with regard to any updates of the SWMP.
Mining Lease No.1424 16	Prevention of Soil Erosion and Pollution Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water The lease holder must observe and perform any instructions given by the Director-General in this regard.	Non-compliant See recommendations for Condition L2.1 and L2.2 of EPL 467	Response as per Condition L2.1 and L2.2.of EPL 467.

Table 2: Response to additional recommendations from the Independent Audit

Condition	Recommendation	Angus Place Response
PA 06_0021 S3-24 – FAUNA AND FLORA Flora and Fauna Management Plan	At the next update of the plan review the section headings and ensure they align with condition requirements in Table 1.	Updates will be made with next revision
PA 06_0021 S3-34 Dangerous Goods.	Ensure the recommendations provided in the dangerous goods audit (GHD, 2012) are implemented.	Recommendations will be implemented where practicable and feasible
PA 06_0021 S3-35 Bushfire Management	Prepare a Standard for Annual Bushfire Prevention for Angus Place.	Bushfire maintenance procedure has been developed
PA 06_0021 S3-39	<p>Mod – 2 Ventilation Facilities - Rehabilitation</p> <p>The segregation of topsoil and subsoil should be managed and inspected on a regular occurrence to ensure that soils are not mixed and the rehabilitation potential of the material is not diluted.</p> <p>An Independent rehabilitation expert should inspect the works periodically to monitor progress and provide recommendations for ongoing rehabilitation management to ensure proposed outcomes are achievable.</p>	Independent rehabilitation expert engaged at the time of the audit and will be utilised to periodically monitor works and provide advice.
PA 06_0021 S5-2 Management Plan Requirements	<p>Ensure management plans and programs include a contingency plan to manage any unpredicted impacts and their consequence.</p> <p>Update the Air Quality Management Plan to include a protocol for managing and reporting incidents, complaints, non-compliances with statutory requirements and exceedances of the impact assessment criteria and/or performance criteria.</p>	Future management plans and programs will include an updated contingency plan where required.
PA 06_0021 S5-10 Access to Information	It is recommended that subsidence status reports be posted to the Angus Place website.	Not required under SMP 930-980 or Project Approval but Angus Place will consider as part of overall community engagement.

EPL 467 A2 A2.1 Premises or plant to which this licence applies	It is recommended that the EPL be updated to include the Ventilation Project area and relevant discharges e.g. sediment basins	Ventilation Facility is within the Mining lease area shown in Figure 2. Angus Place will discuss with the EPA whether specific reference to Ventilation Facility is recommended.
EPL 467 O1 O1.1	Manage Ventilation Facility environmental inspections and audit findings so that recommendations can be tracked and closed out.	Refer to PA06_0021 S3-38.
EPL 467 O4 O4.1	Prepare a formal layout of the utilisation area (LDP 005) showing the area/capacity and reach of spray heads.	Irrigation area shown in the licence variation application
EPL 467 O5.3	Formalise the Draft Rainfall Preparedness TARP and Water Treatment Action Plan and include as a formal SWP in the Angus Place management system.	The current TARP developed by site will be updated to incorporate the Ventilation Facility
EPL 467 O5.5	Include Ventilation Facility basins in next round of surveys.	The Ventilation Facility basins will be surveyed.
EPL 467 M2.4	It is recommended that the Angus Place Monthly Environmental Monitoring Reports state the sampling methodology used and as stated in Environmental Protection Licence 467.	Future monitoring reports will include reference to sampling methodology.
EPL 467 M3.2	It is recommended that Angus Place require its third-party water discharge sample analysis contractor (ALS) to provide references to the methods of water analysis used in the Angus Place Monthly Environmental Monitoring Reports.	References are included within the methodology tabs of the spreadsheets supplied by third party analysis contractor. Future monitoring reports will include reference to sampling methodology.
EPL 467 R1.5	It is recommended that Angus Place maintain evidence to demonstrate submission of its Annual Returns within the required timeframe each year.	Evidence maintained in the Angus Place electronic document management system.
EPL 467 R1.7	Ensure the Signature and Certification page of the Annual Return is signed by a person approved in writing by the EPA to sign on behalf of the licence holder.	Annual returns are signed by the licence holder and in accordance with section G of annual return form.
EPL 467 U1 U1.1 Pollution Studies and	Provide an update to the EPA concerning the progress against the requirements of this Condition.	Discussions with the EPA are in progress.

Reduction Programs Control of water discharged via LDP1		
Mod 2 SoC 20 Bushfire	Update the Standard Work Procedures and CEMP to include the mitigation measures outlined in the EA (RPS, 2010).	Component of the CEMP as per S3-38
CCL 704 21 and Mining Lease 1424 19 Roads and Tracks	Update the Infrastructure Management Plan to include the Ventilation Facility.	Infrastructure Management Plan is a plan required under the SMP for 930-980. Ventilation facility information is within the CEMP. Ventilation Facility infrastructure is owned by Angus Place.
CCL 704 34	Include the units of measurement 'cubic metres per second' in weekly/monthly spread sheets to assess compliance with CCL 704 Condition 34(d).	Spreadsheets will be updated accordingly.
SMP 930-980 Condition 12	It is recommended that the end of panel reports include references to specialist monitoring and interpretation input and reports received and/or utilised during the panel extraction period. Consideration should be given to inclusion of specialist reports as supporting Appendices to the end of panel report where appropriate. It is noted that this practice is common at other underground mining operations.	Noted for future extraction areas- SMP 930-980 area now completed.
SMP 930-980 Condition 14	It is recommended that the SMSR include references to specialist monitoring and interpretation input and reports received and/or utilised during the SMSR period. Consideration should be given to inclusion of specialist reports as supporting Appendices to the SMSR where appropriate.	Noted for future extraction areas- SMP 930-980 area now completed.
WL 10BL601838 & 10BL601851 Condition 6	Obtain from NOW evidence that current meters are to the satisfaction of the Department.	Angus Place will continue to follow up with NOW.