

APPENDIX S1

MINING LEASE CONDITIONS RELEVANT TO CLOSURE AND POST CLOSURE

ANGAS PROCESSING FACILITY

MISCELLANEOUS PURPOSES LICENSE APPLICATION
2019/0826



ABN | 67 062 576 238

Unit 7 / 202-208 Glen Osmond Road | Fullarton SA 5063

ML 6229 conditions relevant to closure and post closure	Where it is addressed in the MCP
<p>1. Community Consultative Committee: The Lessee must take responsibility for resourcing, participating with and maintaining to the satisfaction of the Minister, a Strathalbyn Community Consultative Committee (SCCC) for the term of the lease with terms of reference as specified from time to time by the Minister.</p>	<p>Section 4.</p>
<p>7. Reporting: The Lessee must, if requested by the Chief Inspector of Mines, undertake an independent audit of achievement of the environmental outcomes any of all in clauses 16 to 63 below, by an independent expert approved by the Chief Inspector of Mines. The audit will be made available to the public, in a manner and form as determined by the Minister in consultation with the Community Consultative Committee.</p>	<p>Section 7 - Outcome Tables</p>
<p>16. Groundwater and surface water: The Lessee must, in construction and operating the lease and post-mine closure, ensure that there is no adverse impact to the supply of water by lessees operations to existing users and water dependent ecosystems.</p>	<p>Table 7-4: surface water outcome: Covered as part of Site Contamination. Outcome: No adverse impact to the supply of water by the mining operations to existing users and water dependant ecosystems. Table 7-5: groundwater outcome. Also refer to Groundwater Monitoring and Response Plan - MCP, Appendix BJ.</p>
<p>17. Groundwater and surface water: The Lessee must ensure that groundwater monitoring well locations and all data are supplied to PIRSA and Department of Water Land and Biodiversity Conservation (DWLBC) on an annual basis in a format stipulated by DWLBC.</p>	
<p>18. Groundwater and surface water: The Lessee must report on an annual basis groundwater ingress zones encountered within the mine workings and report on groundwater flow and quality and microbiological content.</p>	
<p>19. Erosion: The Lessee must, in construction and operating the lease and post mine closure, stabilise disturbed areas and prevent sediment from leaving the site.</p>	<p>Table 7-2: Erosion: Stabilise disturbed areas and prevent sediment from leaving the site.</p>

<p>20. Topsoil: The Lessee must, in constructing and operating the lease and post mine closure, ensure that soil quality and quantity are protected.</p>	<p>Table 7-4: Soil: Ensure that soil quality and quantity are protected. Covered as part of Site Contamination Outcome.</p>
<p>22. Vegetation clearance and weed management: The Lessee must, in construction and operating the lease and post mine closure, avoid permanent loss of biodiversity through clearance of native vegetation.</p>	<p>Table 7-6: Vegetation: Avoid permanent loss of biodiversity through clearance of native vegetation. Weeds and Pests are managed through Weed and Pest Management Plan (MCP, Appendix AY).</p>
<p>23. Vegetation clearance and weed management: The Lessee must minimise the spread of weeds and plant pathogens (including phytopthera) and ensure that all employees and contractors on-site are made aware of this requirement.</p>	
<p>25. Silt and stormwater: The Lessee must, in construction and operating the lease and post mine closure, ensure no water contaminated as a result of mining operations leaves the lease area or results in contamination of soil at mine closure within the lease area.</p>	<p>Table 7-4: surface water outcome covered as part of Site Contamination: No adverse impact to the supply of water by the mining operations to existing users and water dependant ecosystems.</p>
<p>26. Silt and stormwater: The Lessee must ensure that surface water monitoring site locations and data is supplied to the Chief Inspector of Mines and Department of Water Land and Biodiversity Conservation (DWLBC) on an annual basis in a format stipulated by DWLBC.</p>	
<p>29. Waste disposal and hazardous substances: The Lessee must, in construction and operating the lease and post mine closure, ensure that no contamination and pollution is caused by waste products and hazardous materials used in the mine operations.</p>	<p>Table 7-4: Waste disposal and hazardous substances covered as part of Site Contamination: No contamination and pollution is caused by waste products and hazardous materials used in the mine operations.</p>
<p>33. Acid mine draining and tailings management: The Lessee must, in construction and operating the lease and indefinitely post mine closure, ensure that no contamination of natural water draining systems, streams, rivers, groundwater, land and soils occurs wither on or off site resulting from permanent disposal or temporary storage of mine ore or waste material.</p>	<p>Table 7-8: Acid mine and Metalliferous: No contamination of natural water drainage systems, streams and rivers, groundwater, land and soils occurs either on or off site resulting from permanent disposal or temporary storage of mine ore or waste material.</p>
<p>35: Acid mine draining and tailings management: The Lessee must design, operate, close and rehabilitate the Tailings Storage Facility (TSF) according to the following conditions:</p> <p>35.4 The TSF must be designed, constructed, operated and decommissioned in accordance with the tailings management guidelines as approved from time to time by the Chief Inspector of Mines and Environment Protection Authority.</p>	

<p>39. Traffic: The Lessee must monitor all traffic movements associated with the mine construction, operation and closure and must ensure that: 39.1: No B-Double vehicles are to be driven through Strathalbyn township roads. 39.2: B-Double vehicle movements on public roads limited to hours as approved in the MARP in consultation with Transport SA.</p>	<p>Table 6-2: Risk Assessment for Non-Domain-Specific Closure Tasks.</p>
<p>45. Public health and nuisance: The Lessee must, in construction and operating the lease and post mine closure, ensure that there are no public health, loss of amenity and nuisance impacts to local residents from air emissions, dust and odour generated on site as a result of mining operations.</p>	<p>Table 7-6: Public health and nuisance: No public health, loss of amenity and nuisance impacts to local residents from air emissions, dust and odour generated on site as a result of mining operations.</p>
<p>51. Fire: The Lessee must, in construction and operating the lease and post mine closure, ensure that there are no unplanned fires onsite, and ensure control measures are in place to manage potential off site impacts.</p>	<p>Table 6-2: Risk Assessment for Non-Domain-Specific Closure Tasks.</p>
<p>52. Public safety: The Lessee must, in construction and operating the lease and post mine closure, ensure there are no public injuries/deaths resulting from unauthorised entry to the mine site.</p>	<p>Table 6-2: Risk Assessment for Non-Domain-Specific Closure Tasks.</p>
<p>53. Geotechnical stability: The Lessee must, in construction and operating the lease and post mine closure, ensure that no damage occurs to third party infrastructure and no injuries/deaths result from collapse of the underground workings.</p>	<p>Table 7-3: Geotechnical stability: Ensure that no damage occurs to third party infrastructure and no injuries/ deaths result from collapse of the underground workings.</p>
<p>54. Geotechnical stability: The Lessee must demonstrate that the mine design cannot allow surface subsidence to occur at any time during mining operations. The demonstration must be made by submitting to the Chief Inspector of Mines (prior to commencing mine development under the Callington Road) a review of the design of the proposed underground operations undertaken by an independent chartered professional mining engineer. The section of the report pertaining to mining under Callington Road must also be submitted to Transport Services Division (TSD) for its advice. The Lessee must survey the road prior to, during and post mining to ascertain if subsidence has occurred. TSD requires the Lessee to pay for any remediation works on the Callington Road that are required as a direct results of the mining operations, irrespective of the amount of subsidence. This condition applies from the commencement of mine operation to 1 year after mine closure.</p>	

<p>The Lessee shall be responsible for the cost of any remediation works required to be undertaken to the Strathalbyn effluent ponds located north of the Callington Road that has occurred as a direct result of mining operations.</p>	
<p>55. Geotechnical stability: The Lessee must demonstrate that all underground voids are filled to the extent that subsidence cannot occur at any time after mine closure.</p>	
<p>56. Visual impact: The Lessee must, in construction and operating the lease, minimise the adverse visual impact and maintain a clean, rubbish free site.</p>	<p>Table 7-7: Visual Impact: Improve the visual amenity of the mine site in the long term post mine closure. Ensure that upon mine closure, all plant and equipment (unless otherwise agreed with the Chief Inspector of Mines) is removed from the site.</p>
<p>57. Visual impact: The Lessee must improve the visual amenity of the mine site in the long-term post mine closure.</p>	
<p>62. Fauna: The Lessee must, in construction and operating the lease and post mine closure, ensure that there are no net adverse impacts from site operations on native fauna in the lease area and in adjacent areas. The Lessee must, prior to construction, undertake baseline monitoring of all fauna in the area.</p>	<p>Table 6-2: Risk Assessment for Non-Domain-Specific Closure Tasks. Baseline undertaken in 2006.</p>
<p>63. Aboriginal heritage: The Lessee must ensure that all employees and contractors on site are properly advised of the significance of Aboriginal heritage and culture and are to take due care to preserve all Aboriginal Sites and Objects as defined by the Aboriginal Heritage Act 1988.</p>	<p>Table 6-2: Risk Assessment for Non-Domain-Specific Closure Tasks.</p>
<p>64. Rehabilitation and mine closure: The Lessee must ensure that upon mine closure, all plant and equipment (unless otherwise agreed with the Chief Inspector of Mines is removed from site.</p>	<p>Table 7-7: Visual impact: Improve the visual amenity of the mine site in the long term post mine closure. Ensure that upon mine closure, all plant and equipment (unless otherwise agreed with the Chief Inspector of Mines) is removed from the site.</p>

<p>65. Rehabilitation and mine closure: The Lessee must ensure that upon mine closure, the site (including the TSF) is left in a stable, non-polluting state indefinitely post closure.</p>	<p>Table 7-3: Geotechnical stability: Ensure that no damage occurs to third party infrastructure and no injuries/ deaths result from collapse of the underground workings.</p> <p>Table 7-8: AMD: No contamination of natural water drainage systems, streams and rivers, groundwater, land and soils occurs either on or off site resulting from permanent disposal or temporary storage of mine ore or waste material. Of significance - TSF Post Construction Monitoring Plan - MCP Appendix BY</p> <p>Table 7-2 Erosion: Stabilise disturbed areas and prevent sediment from leaving the site.</p> <p>Table 7-5: Groundwater water: No adverse impact to the supply of water by the mining operations to existing users and water dependant ecosystems.</p> <p>Table 7-4: Waste disposal and hazardous substances: No contamination and pollution is caused by waste products and hazardous materials used in the mine operations.</p> <p>Table 7-4: Soil : Ensure that soil quality and quantity are protected.</p>
<p>66. Rehabilitation and mine closure: The Lessee must ensure that upon mine closure, the site is returned to a land use as agreed with the landowner, consistent with practicalities of ensuring the integrity of the TSF and consistent with the Alexandrina Council Development Plan, after consulting with the Strathalbyn Community Consultative Committee.</p>	<p>Table 7-8: AMD: No contamination of natural water drainage systems, streams and rivers, groundwater, land and soils occurs either on or off site resulting from permanent disposal or temporary storage of mine ore or waste material. Of significance - TSF Post Construction Monitoring Plan - MCP Appendix BY</p>
<p>67. Rehabilitation and mine closure: The Lessee must ensure that upon mine closure, the decline under the Strathalbyn-Callington Road is backfilled in a manner to ensure the long term integrity of the public road structure.</p> <p>69. Rehabilitation and mine closure: The Lessee must ensure that the area of the TSF and a 10m wide buffer on all sides is protected in perpetuity from development that may affect the integrity of the TSF design. This protection must include a caveat on the relevant freehold land title.</p>	<p>Table 7-3: Geotechnical stability: Ensure that no damage occurs to third party infrastructure and no injuries/ deaths result from collapse of the underground workings.</p> <p>Table 7-8: AMD: No contamination of natural water drainage systems, streams and rivers, groundwater, land and soils occurs either on or off site resulting from permanent disposal or temporary storage of mine ore or waste material. Of significance - TSF Post Construction Monitoring Plan - MCP Appendix BY</p>
<p>70. Financial security: The Lessee must, before commencing operations under this lease, lodge a Rehabilitation Bond (Bond) in accordance with Section 62 of the Mining Act 1971 of such an amount of the surety as determined from time to time by the Minister, to cover the full cost of rehabilitation liability assessed by an independent third party at any time.</p>	

71. Financial security: The Minister may review the Bond from time to time, and in reviewing the Bond the Minister may request that written quotes from a third party are obtained by the Lessee for the cost of rehabilitating the site to the approved criteria.

72. Financial security: The Lessee must meet all charged and costs in obtaining and maintaining the Bond.

73. Financial security: The Bond will not be refunded until the Minister (in consultation with the EPA) is satisfied the completion criteria as stated in the current MARP have been met.

74. Financial security: To enable consideration of whether or not the completion criteria have been met, the Lessee must provide an independent audit of the achievement of the completion criteria, to be carried out by an independent auditor approved by the Minister.

Section 10 of this MCCP.