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<th>IRD Mining Operations Pty Ltd (ACN 169 060 146)</th>
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<td>Mineral Lease (ML)</td>
</tr>
<tr>
<td>ML NUMBER</td>
<td>6467</td>
</tr>
<tr>
<td>COMMENCEMENT DATE</td>
<td>3 May 2017</td>
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<tr>
<td>TERM OF LEASE</td>
<td>Twenty-One (21) Years</td>
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<tr>
<td>EXPIRY DATE</td>
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<td>MINERAL(S)</td>
<td>Metallic Minerals (Iron Ore - Magnetite)</td>
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<td>AREA OF LEASE</td>
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Details of Grant of a Mining Tenement

1. On 3 May 2017, pursuant to Part 6 of the Act, the Minister made a statutory grant of a mineral lease (the Mining Tenement) described in this Tenement Document.

2. The Mining Tenement is granted:
   2.1. To IRD Mining Operations Pty Ltd (ACN 169 060 146);
   2.2. For the purpose of recovering the Mineral(s) described in the First Schedule of this Tenement Document.

3. The Mining Tenement is numbered ML6467.

4. The Mining Tenement is:
   4.1. Subject to the Terms and Conditions prescribed by the Act and Regulations and specified in this Tenement Document; and
   4.2. Subject to the Additional Terms and Conditions specified in the First and Second Schedules (respectively) of this Tenement Document.

Terms and conditions required by the Act to be specified in the Tenement Document

Description of the Land

5. The Mining Tenement is granted over an area of 8,458 hectares and is located approximately 25km southeast of Wudinna.

6. The location of the Mining Tenement is more specifically defined in the map and coordinates specified in the Third Schedule of this Tenement Document.

Term, Commencement and Expiration

7. The Mining Tenement is granted for the term of 21 years. The term of the Mining Tenement commenced on 3 May 2017, and, unless it is earlier renewed, surrendered or cancelled, the Mining Tenement will cease on 2 May 2038.
Rental

8. The Tenement Holder shall pay, by way of rental, such sums as may be prescribed and in accordance with section 40 of the Act and regulation 42 of the Regulations.

Compensation

9. The Minister may, at any time, require the Tenement Holder to pay to any person an amount of compensation stipulated by the Minister, to which that person is, in the opinion of the Minister, entitled in consequence of mining operations in pursuance of the rights granted and the obligations imposed by the grant of the Mining Tenement.

Suspension and Cancellation: Stipulation of Process

10. Pursuant to subsection 41(1) of the Act, the Minister may suspend or cancel the Mining Tenement if the Tenement Holder contravenes or fails to comply with a term or condition of this Tenement Document or a provision of the Act (which includes the Regulations).

11. Pursuant to subsection 41(2) of the Act, the Minister may stipulate in the tenement document a process for suspension or cancellation that must be followed before the powers in subsection 41(1) may be exercised.

12. The process for suspension of the Mining Tenement shall be as stipulated in the Fourth Schedule of this Tenement Document.

13. The process for cancellation of the Mining Tenement shall be as stipulated in the Fifth Schedule of this Tenement Document.

Environmental outcomes specified pursuant to Regulation 65 of the Regulations

14. The Sixth Schedule of this Tenement Document sets out outcomes contemplated in regulation 65(2) of the Regulations, that the Tenement Holder is required to address in any program submitted in accordance with Part 10A of the Act.

Explanatory note: The Sixth Schedule may also specify requirements for strategies and criteria relevant to the outcomes set out in that Schedule.
Restatement of selected provisions from the Act

Explanation of Restatements

15. All of the restatements in this portion of this Tenement Document are included for guidance only and do not replace the substantive provisions of the Act or the Regulations.

16. If any restatement is inconsistent with the substantive provisions of the Act or the Regulations, the restatement will be invalid and the substantive provision of the Act or the Regulations will prevail and the Tenement Holder is required to comply with the substantive provision of the Act or the Regulations.

17. The Tenement Holder is still required to comply with any provision of the Act or Regulations that is not restated in this Mineral Lease.

Restatement of rights conferred on Tenement Holder

18. The grant of the Mining Tenement confers an exclusive right upon the Tenement Holder including officers, employee(s), contractor(s) or duly authorised agent(s) of the Tenement Holder, to conduct mining operations on the Land, for the Mineral(s), subject to the provisions of the Act and the Regulations, and the terms and conditions of this Tenement Document.

19. The grant of the Mining Tenement authorises the Tenement Holder, including officers, employee(s), contractor(s) or duly authorised agent(s) of the Tenement Holder, to sell, or dispose of, the Mineral(s) recovered in the course of mining operations conducted in pursuance of the grant or to utilise any such mineral(s) for any commercial or industrial purpose, subject to the payment of royalty.

Restatement of rights and powers not conferred on the Tenement Holder

20. The grant of the Mining Tenement does not confer any right on the Tenement Holder:

20.1. To use the Land for any purpose other than the authorised mining operations.

20.2. To confer any rights on any other person in relation to the Mining Tenement.

Explanatory note: For example, the Tenement Holder cannot grant rights to a party under a Joint Venture Agreement (or other agreement however described), to conduct mining operations on the Land in that party’s own right. The Tenement Holder may engage employees, contractors or agents to perform work on the tenement on the Tenement Holder’s behalf.
Restatement of obligations imposed on Tenement Holder: Program for environment protection and rehabilitation

21. The Tenement Holder must not carry out mining operations unless there is an approved program for environment protection and rehabilitation (an Approved PEPR).

22. A Proposed PEPR will only be approved when it complies with the requirements of Part 10A of the Act and the Regulations.

23. To comply with Part 10A of the Act, the Proposed PEPR must:
   
   23.1. Contain the information specified in section 70B(2) of the Act and regulation 65(2), (5), (6) of the Regulations and determinations made by the Minister under regulation 65(7) of the Regulations (if any);
   
   23.2. Comply with any applicable conditions specified in this Tenement Document (if any);
   
   23.3. Address any relevant environmental outcomes listed in the Sixth Schedule of this Tenement Document.

Explanatory note: At the date of grant, the determinations are available at: www.minerals.statedevelopment.sa.gov.au/publications_and_information/ministerial_determinations

24. In accordance with regulation 65(10) of the Regulations, the Tenement Holder must submit to the Department of the Premier and Cabinet for ministerial approval a Proposed PEPR that fully complies with the Act and Regulations within twelve (12) months after the grant of the Mining Tenement unless the Tenement Holder has been granted an extension of time for such submission.

Explanatory note: Until otherwise notified, the Tenement Holder may apply for an extension of time in writing to the Director of Mines, Level 7, 101 Grenfell Street, Adelaide, SA 5000, setting out the reasons why the Tenement Holder seeks an extension and the date when the Tenement Holder estimates that the document will be ready for submission to the Minister.

Restatement of obligations imposed on Tenement Holder: Working conditions

25. In accordance with regulation 35 of the Regulations, unless otherwise determined or agreed by the Minister, the Tenement Holder must:

   25.1. Commence mining operations in accordance with the Approved PEPR within twelve (12) months after its approval; and
   
   25.2. Thereafter continue mining operations in accordance with the requirements of the program in the Approved PEPR.
Restatement of obligations imposed on Tenement Holder: Other

26. In addition to obligations about the conduct of mining operations and rehabilitation, the Act and Regulations impose other obligations on the Tenement Holder including obligations to:


26.2. Comply with the applicable provisions of Part 9 of the Act (entry onto land and use of declared equipment).

26.3. Comply with the applicable provisions of Part 9B of the Act (native title).

26.4. Comply with the provisions of section 76 of the Act (mining returns) to the extent relevant to a mineral lease.

26.5. Comply with section 77 of the Act (records and geological samples) and regulation 84 of the Regulations.

26.6. Comply, as necessary, with section 83 of the Act (ministerial consent for dealings in relation to the Tenement) and regulations 44 and 70 of the Regulations.

26.7. Comply, insofar as applicable to a mineral lease, with regulation 86 of the Regulations (compliance reports).

26.8. Comply with the requirement in regulation 43 of the Regulations to maintain all posts, boundary indicator markers and notices in the positions required by the Regulations as applicable.

26.9. Permit the pastoral lessee (if any) of the Land to have free access and use at all times for domestic purposes, and for the purposes of watering stock from any surface water on the land which shall not have been provided or stored by artificial means by the Tenement Holder.

Restatement of Exempt Land

27. In accordance with section 9 of the Act, the grant of the Mining Tenement does not authorise prospecting, exploring or mining upon any exempt land unless or until the benefit of the exemption is waived under section 9AA.
Restatement of Bond

28. In accordance with section 62 of the Act, the Minister may by written notice require the Tenement Holder to pay a bond in such sum and subject to such terms and conditions as to ensure, in the opinion of the Minister, that the following will be satisfied:

28.1. Any civil or statutory liability likely to be incurred by the Tenement Holder in the course of carrying out mining operations;

28.2. The present and future obligations of the Tenement Holder in relation to the rehabilitation of land disturbed by mining operations.

*Explanatory note:* The terms and conditions referred to in this paragraph will be imposed in the written notice given by the Minister. The Minister may include a term or condition that the bond may be increased if circumstances arise during the term of this Mineral Lease which increases the rehabilitation liability or increases the cost of civil or statutory liability.

Restatement of Fees

29. The Tenement Holder shall pay all fees imposed by the Act and Regulations from time to time.

Restatement of Renewal

30. This Mining Tenement shall be renewed in accordance with the Act.

Restatement of Surrender

31. The Tenement Holder may apply to surrender the Mining Tenement during its term in accordance with the Act and the Regulations.

Restatement of Forfeiture

32. The Mining Tenement is subject to the forfeiture provision of the Act being sections 70 and 85.

Restatement of Notices

33. Notices under the Act will be served in accordance with regulation 106 of the Regulations.

Restatement of Mining Register

34. Section 15A of the Act requires the Mining Registrar to keep a register of, amongst other things, mineral leases. Upon payment of the prescribed fee, the public may inspect the Mining Register.
Restatement of Mining Operations

35. As defined by section 6 of the Act “mining operations” means:

35.1. Operations carried out in the course of prospecting, exploring or mining for minerals; or

35.2. Without limiting paragraph 35.1, any operations by which minerals are recovered from any place or situation, including by recovering minerals from the sea or a natural water supply; or

35.3. On-site operations undertaken to make minerals recovered from the site a commercially viable product, other operations involving such minerals, or other operations involving minerals brought on to the site of a mine for processing; or

35.4. Operations for the rehabilitation of land on account of the impact of any operations under a preceding paragraph; or

35.5. Operations that are directly related to any operations under a preceding paragraph;

but does not include –

35.6. An investigation or survey under section 15 of the Act; or

35.7. Fossicking; or

35.8. The surface removal of loose rock material disturbed by agricultural operations.

36. This definition applies to operations that occur during all phases of the mine’s life.

Restatement of requirement to notify of a change in status

37. The Tenement Holder must comply with regulation 98(1)(c) and 98(2).

37.1. If the Tenement Holder is a natural person, he or she is required to notify the Mining Registrar of a declaration of bankruptcy within 14 days of the declaration.

37.2. If the Tenement Holder is a company, it is required to notify the Mining Registrar of its being placed under official management, or in liquidation or receivership within 14 days of any of those events.

Restatement of Public Liability Insurance

38. Comply with regulation 90, which concerns public liability insurance.
Definitions

39. In this Tenement Document, the following words have the following meanings:

39.1. “acoustic engineer” means a person eligible for membership of both the Institution of Engineers Australia and the Australian Acoustical Society;

39.2. “Act” means the Mining Act 1971 of South Australia;

39.3. “Additional Terms and Conditions” means the Additional Terms and Conditions authorised by section 34(4) of the Act and set out in the First and Second Schedules of this Tenement Document respectively;

39.4. “Applicant” means the person or persons who applied for the Mining Tenement;

39.5. “Approved PEPR” means the Program for Environment Protection and Rehabilitation under Part 10A of the Act, which has received ministerial approval;

39.6. “Business Day” means any day that is not a Saturday, Sunday or a public holiday in South Australia;

39.7. “CEP” means Community Engagement Plan;

39.8. “Contamination” and “contaminated” mean the presence of chemical substances in concentrations greater than the background concentrations (if any), where the presence of the chemical substances in the greater concentrations has resulted in

39.8.1. Actual or potential harm to the health or safety of human beings that is not trivial, or

39.8.2. Actual or potential harm to water that is not trivial, or

39.8.3. Other actual or potential environmental harm that is not trivial;

39.9. “DDD” means Directional Dust Deposition (including both ambient and mine related dust);

39.10. “DRP” means Decommissioning and Rehabilitation Plan;

39.11. “EPA” means the Environment Protection Authority under the Environment Protection Act 1993 of South Australia;


39.13. “the Land” means the land over which this Mining Tenement is granted and which is described in paragraphs 5 and 6 of this Tenement Document and in the Third Schedule of this Tenement Document;

39.14. “Mine completion” means the Land has been rehabilitated to an extent that the Minister could approve an application for surrender of the Mining Tenement
on the basis that the Tenement Holder has complied with sub-regulation 45(1) of the Regulations and there is no obstacle under sub-regulation 45(3) of the Regulations;

39.15. “mineral lease” means the Mining Tenement granted to the Tenement Holder as referred to in paragraph 1 of this Tenement Document;

39.16. “Mineral(s)” means the Mineral(s) referred to in the First Schedule of this Tenement Document;

39.17. “Mining Tenement” means the Mineral Lease granted to the Tenement Holder as referred to in paragraph 1 of this Tenement Document;

39.18. “the Minister” means the Minister for Mineral Resources and Energy (or any substituted Minister);

39.19. “NAF” means non-acid forming waste rock;

39.20. “PAF” means potentially acid forming waste rock;

39.21. “PEPR” means Program for Environment Protection and Rehabilitation;

39.22. “PM10” means the fraction of particulates in air 10 micrometres or less in aerodynamic diameter;

39.23. “PM2.5” means the fraction of particulates in air 2.5 micrometres or less in aerodynamic diameter;

39.24. “Proposed PEPR” means the document required by regulation 65(10) of the Regulations to be submitted for ministerial approval within twelve (12) months of the date of grant of the Mining Tenement;

39.25. “Real time” means, in relation to a system for monitoring environmental parameters, that the data acquired by the Tenement Holder is made immediately available (or as close to the time as is recorded as possible) to stakeholders in an easily understood format.

39.26. “Regulations” means the Mining Regulations 2011 of South Australia;

39.27. “Significant Environmental Benefit” means a benefit provided as a requirement of authorisation to clear native vegetation under the Native Vegetation Regulations 2003.

39.28. “site” means the Land;

39.29. “SMP” means Social Management Plan;

39.30. “TDD” means the Total Dust Deposition (including both ambient and mine related dust);

39.32. “Tenement Holder” means the person, or persons to whom the Mining Tenement was granted and includes:

39.32.1. If the Tenement Holder is a natural person the executors, administrators, trustees in bankruptcy or assigns of that person;

39.32.2. If the Tenement Holder is a body corporate the successors, administrators or assigns thereof.

*Explanatory Note: “The Tenement Holder” has the same meaning as “the mining operator” as defined by section 6 of the Act.*

39.33. “third party land users” means the owner of land as defined by the Act (which includes native title holders and any persons lawfully occupying land with the licence of the owner, or the consent of the owner) and "third party land use" has a corresponding meaning;

39.34. “third party property and infrastructure” means property and infrastructure that is not owned by the Tenement Holder.

39.35. “TSP” means Total Suspended Particulate matter;

39.36. “Weeds” means any invasive plant that threatens native vegetation in the local area or any species recognised as invasive in South Australia;
Interpretation

40. For the purposes of interpreting this Tenement Document the following will apply:

40.1. Unless otherwise stated, any term which is used in this Tenement Document which has a defined meaning in the Act or the Regulations, has that same meaning in this Tenement Document;

40.2. The masculine shall include the feminine, words importing persons shall include corporations, and the singular shall include the plural when the context or circumstances require and unless inconsistent with or repugnant to the context the following words shall have the meanings set opposite to them respectively –
   40.2.1. “amendment” includes an addition, excision or substitution;
   40.2.2. “the Land” includes any part thereof; and
   40.2.3. “the term” includes any renewal or extension thereof.

40.3. If the Mining Tenement is granted to more than one person, all of the persons to whom it is granted are jointly and severally liable for compliance with the Act, the Regulations and this Tenement Document, including the Additional Terms and Conditions in the First and Second Schedules of this Tenement Document respectively;

40.4. If, by virtue of a dealing under section 83 of the Act, the Mining Tenement comes to be held by more than one person, they will be jointly and severally liable for compliance with the Act, the Regulations and this Tenement Document including the Additional Terms and Conditions in the First and Second Schedules of this Tenement Document respectively;

40.5. If any act pursuant to Tenement Document would otherwise be required to be done on a day which is not a Business Day then that act may be done on the next Business Day;

40.6. To the extent that there is any inconsistency, on the one hand, between a term of this Tenement Document or any Additional Term or Condition, and, on the other hand, the Act or Regulations, the Act or Regulations shall prevail;

40.7. Subject to the transitional provisions in any amendment to the Act or the Regulations, all provisions referred to in this Tenement Document shall be taken to include any such amendment;
40.8. Subject to the transitional provisions in any amendment to the Act or the Regulations, to the extent that there is any inconsistency, on the one hand, between a term of this Tenement Document or any Additional Term or Condition, and, on the other hand, any amendments to the Act or Regulations, the amended Act or Regulations shall prevail;

40.9. Footnotes and Explanatory notes do not form part of this Tenement Document;

40.10. The contents page does not form part of this Tenement Document;

40.11. The front page and all of the Schedules form part of this Tenement Document.
MINERAL LEASE ML6467

Executed by the Tenement Holder(s) in accordance with regulation 41

SIGNED by IRD Mining Operations Pty Ltd (ACN 169 060 146) )
in accordance with section 127 of the )
Corporations Act 2001 and its Constitution )

Signature of Director

Signature of Director/Secretary

Print Name of Director

Print Name of Director/Secretary

Date

Date

When executed, the Tenement Document will be entered into the Mining Register and will be available through the Mining Register Search Tool on the South Australian Resources Information Gateway (SARIG) at https://map.sarig.sa.gov.au

Entered in the Mining Register on 3 May 2017
In accordance with section 15A(1)(c) of the Act.

Signed by .................................................................
Junesse Martin
Mining Registrar

Date
FIRST SCHEDULE
ADDITIONAL TERMS

Explanatory note: A term is a clause that gives a right to a Mining Tenement.

Authorised Mining Operations

1. The grant of the Mining Tenement authorises mining operations for the recovery of Iron Ore – Magnetite only.

2. The grant of the Mining Tenement authorises mining operations (only) that are consistent with the mining operations described in the Mining Lease Proposal document dated 5 November 2015 and subsequent Response Document dated October 2016.
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Land Access

1. For the purposes of this Additional Condition:

1.1. ‘Preliminary mining operations’ means:

1.1.1. Baseline environmental data collection (particularly if this is required for the development of measurement criteria);

1.1.2. Ongoing environmental impact assessments (particularly if this is required for the development of measurement criteria);

1.1.3. Site works to support any metallurgical test work or trials;

1.1.4. Geotechnical and soil investigations to support the detailed design of the IWL or other infrastructure;

1.1.5. Additional mineral resource definition and sterilisation investigations; or

1.1.6. Any additional activity as determined in writing by the Director of Mines (including an activity that is defined below as a principal mining operation).

1.2. ‘Principal mining operations’ means:

1.2.1. Pre-strip and mining of the open pits;

1.2.2. Preparation and construction of the IWL on the Land;

1.2.3. Construction of the ore processing facility on the Land;

1.2.4. Construction of the concentrate handling facility on the Land;

1.2.5. Construction of the rail infrastructure on the Land;

1.2.6. The provision of water and electricity and the construction of associated infrastructure on the Land;

1.2.7. Any pre-strip or early earthworks on the Land relating to any of the above activities; or

1.2.8. Any other mining operation that is not a preliminary mining operation as defined in Condition 1.1;

but does not include mining operations that fall within 1.2.1 to 1.2.7 to the extent that such mining operations fall within a determination under Condition 1.1.6.

1.3. The Tenement Holder may carry out preliminary mining operations after it has obtained a waiver of exemption (whether by agreement with every person who has the benefit of the exemption, or by a court order, or a combination of a waiver by agreement and court order) from every person who has the benefit of the
exemption in respect of the particular exempt land on which the Tenement Holder wishes to perform the preliminary mining operations.

1.4. The Tenement Holder must not carry out any principal mining operations unless it has obtained waivers of exemption (whether by agreement with every person who has the benefit of an exemption, or by a court order, or a combination of a waiver by agreement and court order) in respect of all the exempt land unless the Director of Mines is satisfied that no mining operations would be required to occur in respect of any particular exempt land for the life of the project.

*Explanatory Note:* The Tenement Holder can carry out principal mining operations on the land that is exempt due to a feature located outside of the Land (see subsection 9(1)(d) of the Act) provided the Tenement Holder has a waiver or waivers for that land. If the Tenement Holder does not need to perform mining operations on land that is exempt due to a feature located outside of the Land (see subsection 9(1)(d) of the Act), no waiver would be necessary.

**Surface Water**

2. The Tenement Holder must:

2.1. Ensure no surface water contaminated (including by sedimentation) as a result of mining operations leaves the Land.

3. The Tenement Holder must:

3.1. Ensure that, apart from water contained in the pit void:

3.1.1. no surface water contaminated (including by sedimentation) prior to mine completion remains within the Land after mine completion; and

3.1.2. no contamination of surface water (including by sedimentation) occurs after mine completion as a result of mining operations within the Land.

4. The Tenement Holder must ensure that:

4.1. mining operations do not cause inundation (by water) of third party property and infrastructure off the Land (to a greater extent than would be expected to occur prior to mining operations commencing);

4.2. mining operations do not cause inundation (by water) of third party property and infrastructure on the Land (to a greater extent than would be expected to occur prior to mining operations commencing) unless the Tenement Holder has obtained a Waiver of Exemption under the Act to undertake mining operations (inclusive of inundation) on that particular land; and

4.3. inundation of third party property and infrastructure by water (to a greater extent than would be expected to occur prior to mining operations commencing) after mine completion is not caused by mining operations.
Explanatory note: The Mining Act 1971 and this Mining Tenement do not authorise any mining operations outside of the mining lease boundaries. If third party property or infrastructure outside of the lease boundaries is inundated by water due to the mining operations, the general law will apply as between the Tenement Holder and the third party.

Soils and Land Use – PAF

5. The extraction of NAF and PAF from the Land, and placement of NAF and PAF in the IWL must be audited by an independent and suitably qualified expert approved by the Director of Mines (or other authorised officer) on a three monthly basis, or at a frequency as the Director of Mines (or other authorised officer) may specify by notice in writing.

6. The expert must prepare a report of the findings of the audit and this report must be provided to the Director of Mines (or other authorised officer) within one month (or such longer period approved by the Director of Mines (or other authorised officer)) of completion of the audit.

Integrated Waste Landform (IWL)

7. The IWL construction and operation must be audited by an independent and suitably qualified expert approved by the Director of Mines (or other authorised officer), against the design and plans that have been adopted for the IWL construction and operation:
   7.1. for the initial stage of IWL foundation preparation and construction; and
   7.2. for each subsequent stage of IWL foundation preparation and construction; and
   7.3. on an annual basis for construction and operations (including the construction of the cover system) or at a frequency as the Director of Mines (or other authorised officer) may specify by notice in writing.

8. The expert must prepare reports of the findings of each audit.

9. The initial expert report for IWL foundation preparation and construction audit must be provided to the Director of Mines (or other authorised officer) prior to the initial placement of tailings and waste in the IWL.

10. Subsequent reports must be provided to the Director of Mines (or other authorised officer) within one month (or such longer period approved by the Director of Mines (or other authorised officer)) of completion of the audit and all reports will be made publically available.
Additional Information in the Proposed PEPR

11. In accordance with section 70B(2)(d) of the Act it is a condition of the grant of the Mining Tenement that a Proposed PEPR submitted in accordance with Part 10A of the Act must include reports on:

11.1. The capacity of the Tenement Holder to achieve compliance with the Act and the Proposed PEPR in light of its management systems, personnel, policies, procedures, practices and resources.

11.2. The effectiveness of the proposed strategies in the Proposed PEPR in achieving the environmental outcomes identified in the Proposed PEPR in relation to, at least:

11.2.1. Geotechnical Engineering (i.e. IWL and mine waste design and construction methodology).

11.2.2. Mine Waste Cover System (i.e. for IWL and mine waste cover systems design).

11.2.3. Geomorphology (i.e. for Landform design, soil and erosion management).

11.2.4. Hydrology (i.e. for Surface water management).

11.2.5. Chemical, Process or Metallurgical Engineering (i.e.: for tailings dewatering design, waste/tailings mixture ratio and density necessary for geotechnical stability of the IWL and timely construction of the IWL cover system).

11.2.6. Environmental Geochemist (i.e. for PAF material and metalliferous drainage management).

11.3. Additionally, the reports in Condition 11.2 must include identification of any risks, assumptions and uncertainties associated with the relevant strategies.

12. The reports required by Condition 11 must be provided by an independent and suitably qualified expert or a person previously approved by the Director of Mines or other authorised officer. To apply for approval the Tenement Holder must:

12.1. Apply in writing; and

12.2. Provide the person’s Curriculum Vitae showing their academic qualifications, publications (if any) and practical experience; and

12.3. Provide the Terms of Engagement as between the person and the Tenement Holder or other document that identifies:
12.3.1. The assumptions, if any, the expert has been asked to make for the purpose of providing their report;

12.3.2. A list of the materials provided to the expert for the purpose of providing their report;

12.3.3. The matters on which the expert is asked to report.

_Explanatory note: The Department is seeking to ensure that if the reporting person is an employee of the Tenement Holder and/or not independent, that their report is objective._

**Transparency**

13. The Tenement Holder agrees to the Approved PEPR and any compliance reports and reportable incident reports, submitted in accordance with the Regulations, being made available for public inspection.

**Notification of Cessation of Operations**

14. Within 30 days of becoming aware of any event or decision which is likely to give rise to the cessation of mining operations for a period of more than seven days and where possible prior to the cessation of mining operations, the Tenement Holder must notify the Director of Mines in writing of the event or decision. The notice must specify the date upon which the mining operations are expected to cease, or have ceased and an estimate of the period of cessation.

**Decommissioning and Rehabilitation Plan (DRP)**

15. If the Tenement Holder decides to cease mining operations or an event occurs that is likely to give rise to the permanent cessation of mining operations, the Tenement Holder must develop a DRP and submit it to the Director of Mines (or other authorised officer) for approval within 30 days of the decision or event (or such longer period as approved by the Director of Mines (or other authorised officer)).

16. The DRP must:

   16.1. set out the activities and scheduling required for the carrying out of the rehabilitation works specified in the Approved PEPR;
   
   16.2. be prepared in accordance with any guidelines provided by the Director of Mines (or other authorised officer).

17. The Tenement Holder must carry out decommissioning and rehabilitation in accordance with the approved DRP and the Approved PEPR.
18. If, in the opinion of the Director of Mines, mining operations have substantially ceased for a period of two consecutive years, the Director of Mines may direct the Tenement Holder:

18.1. To develop and submit a DRP (which must address the requirements of condition 16) for approval within 30 days of the direction or such longer period as the Director of Mines may allow; and/or

18.2. To carry out decommissioning and rehabilitation in accordance with the approved DRP and the Approved PEPR.

Social Management Plan (SMP)

19. The Tenement Holder must prepare an SMP within 12 months from the date of the grant of the Mining Tenement, or within such longer period as the Director of Mines or other authorised officer may allow.

20. The SMP must be prepared in consultation with relevant State Government agencies and key community stakeholders.

21. The SMP must be implemented as soon as possible after its preparation.

22. The Tenement Holder must make the SMP publicly available.

23. The SMP must address:

23.1. The strategies, initiatives and commitments described in Chapter 22 of the Mining Lease Proposal;

23.2. Any issues that the Director of Mines (or other authorised officer) directs in writing from time to time; and

23.3. Any issues arising from consultation that are within the scope of the SMP or the Act and regulations generally.

24. The SMP must contain a process for an audit of the implementation of the SMP, and, if appropriate, an improvement review process to update the strategies, initiatives and issues.

24.1. The audit must be conducted by an independent and suitably qualified expert;

24.2. The audit must be conducted annually or such longer period as the Director of Mines (or other authorised officer) may specify by notice in writing;

24.3. The expert must prepare a report of the findings of the audit and this report must be made publicly available within one month of completion of the audit;

24.4. If the audit recommends updating the strategies or initiatives the Tenement Holder must consult with relevant State Government agencies and key community stakeholders about those recommendations; and
24.5. If the recommendations are adopted by the Tenement Holder, the SMP must be updated, implemented and made publicly available as soon as possible.

Community Engagement Plan (CEP)

25. The Tenement Holder must prepare, implement and maintain (to the satisfaction of the Director of Mines or other authorised officer) a CEP that:

25.1. Sets out the purpose, objectives and parameters of engagement with the community;

25.2. Identifies all community stakeholders likely to be affected by mining operations;

25.3. Sets out the tools and techniques that the tenement holder intends to use for;

25.3.1. identifying community attitudes and expectations;

25.3.2. providing information to the community;

25.3.3. receiving feedback from the community;

25.3.4. analysing community feedback and considering community concerns or expectations; and

25.3.5. registering, documenting and responding to communications from members of the community;

25.4. Outlines an action plan to commence the proposed engagement activities; and

25.5. Addresses any further matters that the Director of Mines (or other authorised officer) advises in writing.

26. The CEP must be submitted to the Director of Mines (or other authorised officer) for approval within three months of the grant of the Mining Tenement.

Communications Protocol

27. In this condition ‘the relevant landowners’ means the owners of land on and adjacent to the Land.

28. Before commencing mining operations, the Tenement Holder must develop a Communications Protocol. The purpose of the Communications Protocol is to facilitate communications about the practical matters that need to be discussed, as between the Tenement Holder and relevant landowners, so as to allow mining operations to be conducted efficiently and effectively whilst having regard to relevant landowners’ use of their land.

28.1. In developing the Communications Protocol, the Tenement Holder must:
28.1.1. Contact the relevant landowners and seek their input for the Communications Protocol; and

28.1.2. Incorporate any such input to the extent it is appropriate to do so.

28.2. The practical matters that the Communications Protocol must address include:

28.2.1. The interaction of mining operations and the land use activities of individual relevant landowners;

28.2.2. Land access protocols;

28.2.3. Land management arrangements;

28.2.4. Safety procedures;

28.2.5. Emergency procedures; and

28.2.6. Any additional practical matters identified by the Director of Mines (or other authorised officer), in writing, from time to time.

28.3. The Communications Protocol must contain processes for:

28.3.1. Relevant landowners to communicate changes to or updates about their land use;

28.3.2. The Tenement Holder to communicate updates about its mining operations;

28.3.3. Receiving and considering feedback from relevant landowners;

28.3.4. Dispute resolution; and

28.3.5. Any additional processes identified by the Director of Mines (or other authorised officer), in writing, from time to time.

29. The Tenement Holder must maintain and adhere to the Communications Protocol to the satisfaction of the Director of Mines (or other authorised officer) for the term of the Mining Tenement.

Complaints Management

30. The Tenement Holder must operate a 24 hours per day, seven days per week, telephone line for the purpose of receiving complaints from members of the public in relation to mining operations.

31. The Tenement Holder must take reasonable measures to notify the public of the telephone number applicable to the telephone line established under Condition 30, and of the fact that it is for the purpose of receiving complaints.
32. The Tenement Holder must establish and maintain a public complaints register. The public complaints register must, as a minimum, record the following detail in relation to each complaint received in which it is alleged that environmental harm (including an environmental nuisance) has been caused by the mining operations:

32.1. the date and time at which the complaint was received;
32.2. all personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
32.3. the subject-matter of the complaint;
32.4. the action taken by the Tenement Holder in relation to the complaint, including any follow-up contact with the complainant; and
32.5. if no action was taken by the Tenement Holder, the reasons why no action was taken.

33. All records in respect of the public complaints must be maintained for a period of at least seven years.

34. The Tenement Holder must make the public complaints register publically available except for the name and contact details of each complainant.

Compliance with regulation 98(1)

35. A notification required by regulation 98(1) must be in writing.

Other Legislation

36. The Tenement Holder must comply with all State and Commonwealth legislation and regulations applicable to the activities undertaken pursuant to this Mining Tenement including (but not limited to) the:

36.1. *Environment Protection and Biodiversity Conservation Act 1999*;
36.2. *Development Act 1993*;
36.3. *Dangerous Substances Act 1979*;
36.4. *National Parks and Wildlife Act 1972*;
36.5. *Natural Resources Management Act 2004*;
36.6. *Public and Environmental Health Act 1987*;
36.7. *Aboriginal Heritage Act 1988*;
36.8. *Heritage Places Act 1993*;
36.10.  *Environment Protection Act 1993*;

36.11.  *Native Vegetation Act 1991*;


36.13.  *Road Traffic Act 1961*; and

NOTE: The boundary of this lease is depicted so as to best represent the relationship to the surrounding cadastral parcels. The legal boundary is to be ascertained by the coordinates specified.

DATE PRODUCED: 3/05/2017
THIRD SCHEDULE

DESCRIPTION OF AREA

All that part of the State of South Australia, bounded by a line joining the points of coordinates set out in the following table:

Map Grid of Australia 1994 Zone 53

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Area: 8,458 ha

Based on information provided by the applicant.
FOURTH SCHEDULE

PROCESS FOR SUSPENSION

Issuance of Suspension Show Cause Notice

1. Where the Minister is of the view that there may be grounds to consider whether to suspend the grant of the Mining Tenement, the Minister shall give written notice to the Tenement Holder, which shall:
   
   1.1. Specify the provision of the Act or the Regulations, or the term or condition of the grant of the Mining Tenement, that the Minister believes the Tenement Holder has contravened or failed to comply with; and
   
   1.2. Give the Tenement Holder thirty (30) Business Days from the date of the written notice to show cause why the grant of the Mining Tenement should not be suspended (“the Suspension Show Cause Notice”).

Minister’s action if Tenement Holder does not respond

2. If the Tenement Holder does not respond to the Suspension Show Cause Notice within thirty (30) Business Days, the Minister may suspend the grant of the Mining Tenement without further notice (in accordance with the process outlined below).

Minister’s action if Tenement Holder does respond

3. If the Tenement Holder responds to the Suspension Show Cause Notice within thirty (30) Business Days, the Minister will consider the Tenement Holder’s submission and decide whether to suspend the grant of the Mining Tenement (in accordance with the process outlined below).

Written Notice of Minister’s decision

4. The Minister shall give written notice to the Tenement Holder of the Minister’s decision;
   
   4.1. If the decision is to suspend the grant of the Mining Tenement, the written notice shall be called “Notice of Decision: Suspended”.
   
   4.2. If the decision is to not to suspend the grant of the Mining Tenement, the written notice shall be called “Notice of Decision: Not Suspended”.

5. A Notice of Decision: Not Suspended, may contain any information that the Minister considers relevant.
6. A Notice of Decision: Suspended, shall:
   6.1. Specify the reason for suspension;
   6.2. Specify the period of suspension;
   6.3. Specify the action (if any) the Tenement Holder may be required to take for the Minister to consider revoking the suspension, and the time frame for taking that action; and
   6.4. Inform the Tenement Holder of their right of appeal to the Environment, Resources and Development Court in accordance with subsection 41(3) of the Act.

Minister’s action if Tenement Holder takes action as specified in Notice of Decision

7. If the Tenement Holder takes the action specified by the Minister under paragraph 6.3, the Minister will consider revoking the suspension.

8. If the Minister revokes the suspension, the Minister will, within a reasonable time write to the Tenement Holder informing the Tenement Holder of the revocation.

Minister’s action if Tenement Holder appeals

9. If the Tenement Holder appeals to the Environment, Resources and Development Court the Minister will consider exercising the discretion under section 41(4) of the Act, to stay the operation of the suspension until the appeal is finally disposed of.

10. If the Environment, Resources and Development Court, or a court of further appeal finally determines it is satisfied that there is no proper ground for the suspension, and so orders, the Minister will reinstate the grant of the Mining Tenement in accordance with section 41(5) of the Act.

The Mining Register

11. All of the stages in the suspension process shall be recorded on the Mining Register by way of appropriate memoranda, for example:
   11.1. A memorandum Notice of Decision: Suspended;
   11.2. A memorandum Notice of Decision: Not Suspended;
   11.3. A memorandum of Minister’s Decision to Revoke the Suspension;
   11.4. A memorandum of Appeal;
   11.5. A memorandum of Stay of Suspension by the Minister;
   11.6. Memoranda of all of the courts’ orders (whether the Environment, Resources and Development Court or subsequent appeal courts).
FIFTH SCHEDULE

PROCESS FOR CANCELLATION

Issuance of Cancellation Show Cause Notice

1. Where the Minister is of the view that there may be grounds to consider whether to cancel the grant of the Mining Tenement, the Minister shall give written notice to the Tenement Holder, which shall:
   1.1. Specify the provision of the Act or the Regulations, or the term or condition of the grant of the Mining Tenement, that the Minister believes the Tenement Holder has contravened or failed to comply with; and
   1.2. Give the Tenement Holder sixty (60) Business Days from the date of written notice to show cause why the grant of the Mining Tenement should not be cancelled (“the Cancellation Show Cause Notice”).

Minister’s action if the Tenement Holder does not respond

2. If the Tenement Holder does not respond to the Cancellation Show Cause Notice within sixty (60) Business Days, the Minister may cancel the grant of the Mining Tenement without further notice (in accordance with the process outlined below).

Minister’s action if the Tenement Holder does respond

3. If the Tenement Holder responds to the Cancellation Show Cause Notice within sixty (60) Business Days, the Minister will consider the Tenement Holder’s submission and decide whether to cancel the grant of the Mining Tenement (in accordance with the process outlined below).

Written notice of Minister's decision

4. The Minister shall give written notice to the Tenement Holder of the decision.
   4.1. If the decision is to cancel the grant of the Mining Tenement, the written notice shall be called “the Notice of Decision: Cancelled”.
   4.2. If the decision is not to cancel the grant of the Mining Tenement, the written notice shall be called “the Notice of Decision: Not Cancelled”.
5. A Notice of Decision: Not Cancelled may contain any information that the Minister considers relevant.
6. A Notice of Decision: Cancelled shall:
   6.1. Specify the reason for cancellation;
   6.2. Specify the date from which cancellation is effective; and
   6.3. Inform the Tenement Holder of their right of appeal to the Environment, Resources and Development Court in accordance with subsection 41(3) of the Act.

Minister’s action if Tenement Holder appeals

7. If the Tenement Holder appeals to the Environment, Resources and Development Court the Minister will consider exercising his discretion under section 41(4) of the Act, to stay the operation of the cancellation until the appeal is finally disposed of.

8. If the Environment, Resources and Development Court or a court of further appeal finally determines that it is satisfied that there is no proper ground for the cancellation, and so orders, and the cancellation has not been stayed by the Minister under section 41(4) of the Act, or by order of the Environment, Resources and Development Court, the Minister will reinstate the grant of the Mining Tenement in accordance with section 41(5) of the Act.

The Mining Register

9. All stages in the suspension process shall be recorded on the Mining Register by way of appropriate memoranda, for example:
   9.1. A memorandum Notice of Decision: Cancelled;
   9.2. A memorandum of Notice of Decision: Not Cancelled;
   9.3. A memorandum of Minister’s Decision to Revoke the Cancellation;
   9.4. A memorandum of Appeal;
   9.5. A memorandum of Stay of Cancellation by the Minister;
   9.6. Memoranda of all of the courts’ orders (whether the Environment, Resources and Development Court or subsequent appeal courts).
Explanatory note: The Sixth Schedule of this Tenement Document sets out outcomes contemplated in regulation 65(2) of the Regulations, that the Tenement Holder is required to address in any program submitted in accordance with Part 10A of the Act. The Sixth Schedule may also specify requirements for strategies and criteria relevant to the outcomes set out in that Schedule.

INDEX TO SIXTH SCHEDULE

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Public Safety Outcomes

1. The Tenement Holder must during construction and operation, ensure that unauthorised entry to the Land does not result in public injuries and or deaths that could have been reasonably prevented.

2. The Tenement Holder must during construction and operation, ensure that there are no public injuries and or deaths as a result of uncontrolled fires caused by mining operations that could have been reasonably prevented.

Public Safety Outcome – Post Mine Completion

3. The Tenement Holder must demonstrate that post-mine completion, the risks to the health and safety of the public so far as it may be affected by mining operations are as low as reasonably practicable.

Public Safety Strategies – Post Mine Completion

4. The Tenement Holder is required to address the following matters for the purpose of Regulation 65(2)(c) in relation to the Public Safety Outcome – Post-Mine Completion sixth schedule clause 3;

   4.1. Develop strategies to ensure final landform design for the open pit void meets the outcome for protection of public safety post-mine completion and in the long term to address potential hazards including, but not limited to:

       4.1.1. The risk of falling;
       4.1.2. The risk of drowning;
       4.1.3. The risk of vehicle incidents/accidents; and
       4.1.4. Ground instability.

   4.2. Quality control arrangements for all stages of construction and operation of the IWL including supervision by appropriately qualified and experienced persons, documented procedures, quality control testing and record keeping.
Traffic Outcomes

5. The Tenement Holder must during construction, operation and post-mine completion ensure travel delays to the public as a result of the transport of mining modules, mine related traffic, road closures and road realignments are as low as reasonably practicable.

6. The Tenement Holder must during construction and operation, ensure that no public impacts off the Land are caused by noise, dust and/or dragout associated with mine related traffic.

7. The Tenement Holder must during construction and operation, ensure that there are no traffic accidents involving the public and mine related traffic that could have been reasonably prevented by the Tenement Holder.

8. The Tenement Holder must during construction and operation, ensure no unauthorised damage to public or private property and infrastructure, including road pavements, as a result of traffic movements from mining operations.

Aboriginal Heritage Outcome

9. The Tenement Holder must during construction and operation, ensure that there is no disturbance to Aboriginal heritage sites, objects or remains unless it is authorised under the relevant legislation.

Fauna Outcome

10. The Tenement Holder must during construction, operation and post-mine completion, ensure that there are no native fauna injuries or deaths due to mining operations that could reasonably have been prevented.

Native Vegetation Outcome - Clearance

11. The Tenement Holder must during construction, operation and post-mine completion, ensure no loss of abundance or diversity of native vegetation on or off the Land through;

   11.1. clearance,
   11.2. dust/contaminant deposition,
   11.3. fire,
   11.4. reduction in water supply, or
   11.5. other damage,
unless a significant environmental benefit has been approved in accordance with the relevant legislation.

**Native Vegetation Strategies - Clearance**

12. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) of the Regulations in relation to the Native Vegetation Outcome – Clearance **sixth schedule clause 11**;

12.1. Undertake groundwater monitoring at appropriate locations once the IWL is established and during operations to validate the groundwater model and IWL seepage rates.

**Weeds and Pests Outcome**

13. The Tenement Holder must during construction, operation and post-mine completion, ensure no introduction of new species of weeds, plant pathogens or pests (including feral animals), nor sustained increase in abundance of existing weed or pest species in the Land.

**Soils and Land Use Outcome – Soil Quality and Quantity**

14. The Tenement Holder must during construction, operation and post-mine completion ensure that the existing (pre-mining) soil quality and quantity is maintained.

**Soils and Land Use Strategies – Soil Quality and Quantity**

15. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Soils and Land Use Outcome – Soil Quality and Quantity **sixth schedule clause 14**;

15.1. Strategies to achieve recovery of topsoil and subsoil from areas to be disturbed by mining operations.

15.2. Strategies for maintaining the quality and quantity of stockpiled soil(s) until such time that it is used for rehabilitation purposes.

15.3. Strategies that take into consideration the optimal soil stockpile heights for achieving the soil outcomes.

15.4. Strategies for reinstatement of these soils so as to maximise the likelihood of achieving the soil outcomes.
15.5. An auditable record of soil movement including recovery, stockpiling and reinstatement.

15.6. Strategies for the establishment of post-mine completion land uses and areas, including the re-establishment of land for agriculture where practicable.

15.7. Progressive rehabilitation implemented for all domains as soon as practicable.

Soils and Land Use Outcome – Salinity

16. The Tenement Holder must during construction, operation and post-mine completion, ensure no impacts to agricultural productivity, including but not limited to:

16.1. reduction in crop yield;

16.2. reduction in grain quality; or

16.3. adverse health impacts to livestock;

for third party land users on or off the Land as a result of saline water used in mining operations, other than those agreed between the Tenement Holder and the affected user.

Soils and Land Use Outcome – IWL

17. The Tenement Holder must during construction, operation and post-mine completion, ensure no impacts to agricultural productivity, including but not limited to:

17.1. reduction in crop yield;

17.2. reduction in grain quality; or

17.3. adverse health impacts to livestock;

for third party land users on or off the Land as a result of contamination and/or sediments from mining operations, other than those agreed between the Tenement Holder and the affected user.

Soils and Land Use Strategies – IWL

18. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Soils and Land Use Outcome – IWL sixth schedule clause 17:

18.1. All future works listed in Section 5 of Appendix S of the Mining Lease Proposal ("Conceptual Integrated Waste Landform Design for Rehabilitation and Closure - October 2015 (MWH)").
18.2. Characterisation of all materials to be used within the IWL and the cover system, including dispersive soils.

18.3. A program of test work to determine the performance and properties (including (but not limited to) density and particle size distribution) of representative samples of the combined crushed waste rock and filtered tailings material (in the appropriate representative mixing ratios) that will be placed in the IWL. The results of the test work are to inform the design of the IWL.

18.4. A program for determining the erodibility of the waste rock/tailings mix to ensure that a waste rock/tailings mix of an appropriate erodibility is placed immediately underneath subsoil on external batters. The results of the program are to inform the design of the IWL.

18.5. Develop a detailed waste, tailings and soil material balance to ensure the capacity required by the IWL and in-pit dumps are accurately determined and that the amount of soil required for the cover system is accurately determined.

18.6. The design for the construction, operation and rehabilitation of in-pit dumps is based on (but not limited to) the technical information required by this sixth schedule clause and the design is demonstrated to be effective in achieving all relevant outcomes.

18.7. The design for the construction, operation and rehabilitation of the IWL is based on (but not limited to) the technical information required by this sixth schedule clause and the design is demonstrated to be effective in achieving all relevant outcomes.

18.8. The design, construction and maintenance of mine waste cover systems including, but not limited to, a detailed cover system design, construction methodology, cover system modelling and erosion modelling.

18.9. Provision of a program of works for field trials and collection of site specific data to validate/calibrate the model(s).

18.10. Field trials for the cover system, rehabilitation and revegetation will commence as soon as practicable after commencement of operations.

18.11. Quality control arrangements for all stages of construction and operation of the IWL and cover system, including supervision by appropriately qualified and experienced persons, documented procedures, quality control testing and record keeping.
18.12. Strategies for achieving and maintaining design tailings discharge densities, moisture content and IWL consolidation rates to ensure geotechnical stability of the IWL and timely construction of the IWL cover system.

18.13. Tailings discharge density and moisture content trigger limits and remedial actions to ensure design densities and moisture contents are achieved. The remedial actions must include strategies for managing the site water balance should the design tailings dewatering moisture content not be achieved (i.e. increased water reporting to the IWL and an increased need for water supply).

Soils and Land Use Outcome – PAF

19. The Tenement Holder must, ensure that:

19.1. There is no contamination of land and soils either on or off the Land as a result of mining operations; and

19.2. no contamination of land and soils either on or off the Land post-mine completion occurs as a result of mining operations.

Soils and Land Use Strategies – PAF

20. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Soils and Land Use Outcome – PAF sixth schedule clause 19;

20.1. All Actions listed in Section 5 of Appendix S of the Mining Lease Proposal ("Appendix E - Oxide Zone Geochemistry Review and IWL Management - Sept 2015 (MWH)”).

20.2. Determine a sulphur cut-off grade for PAF material through further testing for each waste unit.

20.3. Block modelling the sulphur distribution of all waste and ore to be mined for the purpose of determining the distribution and estimating the volume of NAF and PAF using the sulphur cut-off grade.

20.4. Integration of the sulphur model with the geological model to provide confidence in the definition of PAF boundaries, potential zones of high neutralising capacity and potential geological controls on mineralisation.

20.5. Procedures for regularly updating the models with new geological and sulphur assay data collected in the course of mine production operations.
20.6. Procedures for ensuring PAF and NAF boundaries derived from the sulphur cutoff and the sulphur block model are included in open pit mine plans.

20.7. Procedures for assaying the sulphur content of drill cuttings or excavated material, produced during the course of blast hole drilling or mining, for verifying PAF and NAF information against mine plans to provide a final check that all PAF and NAF materials have been correctly identified.

20.8. Procedures and recording systems for selective mining of the identified PAF and NAF materials and placement in accordance with the IWL design.

20.9. IWL designed and constructed for the selective placement of the total volume of PAF material with it effectively co-disposed with NAF and/or encapsulated by NAF.

20.10. A program for determining the erodibility of the waste rock/tailings mix to ensure that a waste rock/tailings mix of an appropriate erodibility is placed immediately underneath subsoil on external batters. The results of the program are to inform the design of the IWL.

20.11. IWL designed to ensure PAF material is not exposed as a result of potential open pit wall failure post mine completion.

20.12. Strategies included in any guidelines provided by the Director of Mines (or other authorised officer).

Waste Outcome

21. The Tenement Holder must ensure that all commercial or industrial waste (which does not include tailings and waste rock) is disposed of in an EPA licensed facility.

Air Quality Outcome – Nuisance

22. The Tenement Holder must during construction, operation and post-mine completion ensure no public nuisance impacts from air emissions and/or dust generated by mining operations.
Air Quality Strategies - Nuisance

23. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Air Quality Outcome – Nuisance sixth schedule clause 22;

23.1. Progressive rehabilitation and stabilisation of disturbed areas undertaken throughout the life of mine to control dust emissions generated by wind erosion.

23.2. Undertake continuous dust and meteorological monitoring to inform decisions for operational response and contingency measures to be implemented to prevent exceedance of compliance criteria.

23.3. In the event that it has been established from monitoring data that the air quality measurement criteria has been breached, the Tenement Holder must immediately take steps to cease the activity that caused the non-compliance.

Air Quality Criteria – Nuisance

24. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(d) in relation to the Air Quality Outcome – Nuisance sixth schedule clause 22;

24.1. The measurement criteria adopted for the air quality nuisance outcome must include one or more of the following:

24.1.1. Measurement of Total Dust Deposition (including both ambient and mine related dust) (TDD) using monitoring methodology, equipment and instruments that are recognised by a relevant International or Australian Standard.

24.1.2. TDD does not exceed 4g/m²/month and no more than 2g/m²/month above background.

24.1.3. Measurement of TSP using monitoring equipment and instruments that are recognised by a relevant International or Australian Standard.

24.1.4. An appropriate TSP 24 hour average and annual average concentration is developed and applied to the criteria for the air quality nuisance outcome.

24.1.5. Directional Dust Deposition (including both ambient and mine related dust) (DDD) measured using monitoring equipment and instruments that are recognised by a relevant International or Australian Standard.
24.2. The measurement criteria adopted (including all aspects of Regulation 65(2)(d)) must be based on technical scientific evidence which demonstrates achievement of the outcome.

24.3. The Tenement Holder must undertake meteorological monitoring in accordance with relevant Australian Standards to measure and record meteorological data including (but not limited to) wind speed and direction, temperature, humidity, atmospheric pressure, rainfall and evaporation.

24.4. The Tenement Holder must ensure that all adopted measurement criteria (TSP, TDD, DDD and/or PM10) and meteorological monitoring data acquired by the Tenement Holder is reported in real time to the public on an unrestricted internet site. The monitoring data must be retained and remain accessible on the unrestricted internet site for the life of the mine.

Air Quality Outcome – Agricultural Productivity

25. The Tenement Holder must during construction, operation and post-mine completion, ensure no impacts to agricultural productivity, including but not limited to;

25.1. reduction in crop yield;

25.2. reduction in grain quality; or

25.3. adverse health impacts to livestock;

for third party land users on or off the Land as a result of air emissions and/or dust generated by mining operations, other than those agreed between the Tenement Holder and the affected user.

Air Quality Strategies – Agricultural Productivity

26. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Air Quality Outcome – Agricultural Productivity sixth schedule clause 25;

26.1. Progressive rehabilitation and stabilisation of disturbed areas undertaken throughout the life of mine to control dust emissions generated by wind erosion.

26.2. Undertake continuous dust and meteorological monitoring to inform decisions for operational response and contingency measures to be implemented to prevent exceedance of compliance criteria.
26.3. In the event that it has been established from monitoring data that the air quality measurement criteria has been breached, the Tenement Holder must immediately take steps to cease the activity that caused the non-compliance.

Air Quality Criteria – Agricultural Productivity

27. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(d) in relation to the Air Quality Outcome – Agricultural Productivity sixth schedule clause 25;

27.1. The measurement criteria adopted (including all aspects of Regulation 65(2)(d)) must be based on technical scientific evidence which demonstrates achievement of the outcome.

27.2. The Tenement Holder must ensure that all adopted measurement criteria and meteorological monitoring data acquired by the Tenement Holder is reported in real time to the public on an unrestricted internet site. The monitoring data must be retained and remain accessible on the unrestricted internet site for the life of the mine.

Air Quality Outcome – Public Health

28. The Tenement Holder must during construction, operation and post-mine completion ensure no public health impacts from air emissions and/or dust generated by mining operations.

Air Quality Strategies – Public Health

29. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Air Quality Outcome – Public Health sixth schedule clause 28;

29.1. Progressive rehabilitation and stabilisation of disturbed areas undertaken throughout the life of mine to control dust emissions generated by wind erosion.

29.2. Undertake continuous dust and meteorological monitoring to inform decisions for operational response and contingency measures to be implemented to prevent exceedance of compliance criteria.

29.3. In the event that it has been established from monitoring data that the air quality measurement criteria has been breached, the Tenement Holder must immediately take steps to cease the activity that caused the non-compliance.
Air Quality Criteria – Public Health

30. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(d) in relation to the Air Quality Outcome – Public Health sixth schedule clause 28:

30.1. The measurement criteria for the air quality human health outcome must include:

**PM10**

30.1.1. Measurement of PM10 dust concentration (including both ambient and mine related dust), for or at, all sensitive receptors.

30.1.2. Measurement of PM10 dust concentration (including both ambient and mine related dust) using monitoring methodology, equipment and instruments that adhere to Australian Standard AS/NZS 3580.9.11, and any future updates or variants to that Standard.

30.1.3. The total PM10 dust concentration (including both ambient and mine related dust) is less than 50ug/m³ as a 24 hour (midnight to midnight) average of measurements taken at intervals of not more than 10 minutes; or

30.1.4. Where the total PM10 dust concentration entering the site exceeds 50ug/m³ as a 24 hour (midnight to midnight) average of measurements taken at intervals of not more than 10 minutes, the total PM10 dust does not exceed the measured level entering the site during that period.

30.1.5. The total PM10 dust concentration (including both ambient and mine related dust) is less than 25ug/m³ as an annual average for any 12 month period.

**PM2.5**

30.1.6. Measurement of PM2.5 dust concentration (including both ambient and mine related dust) using monitoring methodology, equipment and instruments that are recognised by a relevant International or Australian Standard.

30.1.7. The total PM2.5 dust concentration (including both ambient and mine related dust) is less than 25ug/m³ as a 24 hour (midnight to midnight) average of measurements taken at intervals of not more than 10 minutes; or

30.1.8. Where the total PM2.5 dust concentration entering the site exceeds 25ug/m³ as a 24 hour (midnight to midnight) average of measurements
taken at intervals of not more than 10 minutes, the total PM2.5 dust does not exceed the measured level entering the site during that period.

30.1.9. The total PM2.5 dust concentration (including both ambient and mine related dust) is less than 8ug/m³ as an annual average for any 12 month period.

**Nitrogen Oxides**

30.1.10. Measurement of the relevant Nitrogen Oxides concentration (including both ambient and mine related dust) using monitoring methodology, equipment and instruments that are recognised by a relevant International or Australian Standard.


30.2. The measurement criteria adopted (including all aspects of Regulation 65(2)(d) and in particular the locations of monitoring) must be based on technical scientific evidence which demonstrates achievement of the outcome.

30.3. The Tenement Holder must undertake meteorological monitoring in accordance with relevant Australian standards to measure and record meteorological data including (but not limited to) wind speed and direction, temperature, humidity, atmospheric pressure, rainfall and evaporation.

30.4. Tenement Holder must ensure that PM2.5, PM10 and Nitrogen Oxides (NOx) concentration data and meteorological monitoring data acquired by the Tenement Holder is reported in real time to the public on an unrestricted internet site. The monitoring data must be retained and remain accessible on the unrestricted internet site for the life of the mine.

**Noise Outcome**

31. The Tenement Holder must during construction and operation, ensure noise emanating from mining operations is in accordance with the current amenity as defined by the Environment Protection (Noise) Policy 2007 and the Wudinna District Council Development Plan at the date that the Mining Tenement was granted.
Noise Strategies

32. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Noise Outcome sixth schedule clause 31;

32.1. At a minimum, implement all noise mitigation strategies described in the Mining Lease Proposal and Response Document.

32.2. Undertake continuous noise and meteorological monitoring to inform decisions for operational response and contingency measures to be implemented to prevent exceedance of compliance criteria.

32.3. In the event that it has been established from monitoring data that the noise measurement criteria has been breached, the Tenement Holder must immediately take steps to cease the activity that caused the non-compliance.

Noise Criteria

33. The Tenement Holder must ensure that noise generated from mining operations on the Land:

33.1. Is measured, for or at, all sensitive receivers in accordance with the Environment Protection (Noise) Policy 2007, under the Environment Protection Act 1993 of South Australia; and

33.2. does not exceed the following noise limits, at those sensitive receivers:

33.2.1. 57 dB(A) between the hours of 7am and 10pm and 50 dB(A) between the hours of 10pm and 7am within a Primary Production Zone (as delineated in the Wudinna District Council Development Plan at the date that the Mining Tenement was granted); or

33.2.2. 55 dB(A) between the hours of 7am and 10pm and 48 dB(A) between the hours of 10pm and 7am within a Settlement Zone (as delineated in the Wudinna District Council Development Plan at the date that the Mining Tenement was granted).

33.3. Mine noise measured at, or for, noise-affected premises must be adjusted in accordance with the relevant environment protection noise policy by the inclusion of a penalty for each characteristic where tonal/modulating/impulsive/low frequency characteristics are present as identified by an acoustic engineer.

33.4. The Tenement Holder must undertake meteorological monitoring in accordance with relevant Australian standards to measure and record meteorological data including (but not limited to) wind speed and direction, temperature, humidity, atmospheric pressure, solar radiation, rainfall and evaporation.
33.5. The Tenement Holder must monitor noise levels on a continuous basis and report that data and meteorological monitoring data acquired by the Tenement Holder in real time to the public on an unrestricted internet site. The monitoring data must be retained and remain accessible on the unrestricted internet site for the life of the mine.

Blasting Outcome

34. The Tenement Holder must during construction and operation, ensure that there are no adverse impacts to:

34.1. public safety,
34.2. human comfort,
34.3. third party property (including stock),
34.4. adjacent land use,
34.5. aircraft, or
34.6. other receptors,

from airblast, flyrock and vibration caused by blasting.

Blasting Strategies

35. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Blasting Outcome sixth schedule clause 34:

35.1. Notify property owners or residents adjacent to and within the Land, subject to their consent, of all blasts no less than forty eight hours in advance of those blasts;
35.2. Develop strategies for the management of impacts from blasting, including the determination and requirement of blast exclusion zones, in accordance with relevant standards including the Australian Standard AS 2187.2;
35.3. Develop strategies for establishing and implementing a blast exclusion zone between any third party property or land use, and the designated blast area, for all blasting events during mining operations;
35.4. If required, develop strategies to ensure that a blast exclusion zone is maintained between the public and the designated blast area, for all blasting events during mining operations.
35.5. Develop a blasting protocol and blasting schedule in consultation with owners and residents of land within and adjacent the Land to reflect the needs of the adjacent land use practices.

**Blasting Criteria**

36. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(d) in relation to the Blasting Outcome **sixth schedule clause 34**;

36.1. All blasts must be monitored and measured for vibration and airblast overpressure;

36.2. Blasting criteria is set in accordance with the Australian Standard AS 2187.2;

36.3. Measurements taken to demonstrate achievement of the blasting outcome must be taken in accordance with Australian Standard AS 2187.2.

**Surface Water Outcome – Agricultural Productivity**

37. The Tenement Holder must during construction, operation and post-mine completion, ensure no impacts to agricultural productivity, including but not limited to;

37.1. reduction in crop yield;

37.2. reduction in grain quality; or

37.3. adverse health impacts to livestock;

for third party land users on or off the Land as a result of surface water contamination and/or inundation from mining operations, other than those agreed between the Tenement Holder and the affected user.

**Surface Water Strategies – Agricultural Productivity**

38. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Surface Water Outcome – Agricultural Productivity **sixth schedule clause 37**;

38.1. All conclusions, actions and recommendations included in Appendix H of the Mining Lease Proposal ("CEIP - Hydrology and Surface Water Management Study - 8/10/2015 (RPS)");

38.2. The Tenement Holder must ensure that:
38.2.1. Mining operations do not cause inundation of third party property and infrastructure by water (to a greater extent than would be expected to occur prior to mining operations commencing); and

38.2.2. Inundation of third party property and infrastructure by water (to a greater extent than would be expected to occur prior to mining operations commencing) after mine completion is not caused by mining operations;

38.2.3. Unless the Tenement Holder obtains a registered Waiver of Exemption under the Act to undertake mining operations (inclusive of inundation).

38.3. Ensure no surface water contaminated (including by sedimentation) as a result of mining operations leaves the Land.

38.4. Ensure that, apart from water contained in the pit void:

38.4.1. no surface water contaminated (including by sedimentation) prior to mine completion remains within the Land after mine completion; and

38.4.2. no contamination of surface water (including by sedimentation) occurs after mine completion as a result of mining operations within the Land.

38.5. Design and construct surface water infrastructure, including IWL surface water controls, to ensure achievement of the surface water outcome post-mine completion and in the long term.

38.6. A plan for establishing appropriate mechanisms to ensure effective transfer of responsibility for any maintenance of surface water infrastructure post-mine completion.

Groundwater Outcome

39. The Tenement Holder must during construction, operation and post-mine completion, ensure no impacts to agricultural productivity, including but not limited to;

39.1. reduction in crop yield;

39.2. reduction in grain quality; or

39.3. adverse health impacts to livestock;

for third party land users on or off the Land as a result of groundwater recharge from the IWL, other than those agreed between the Tenement Holder and the affected user.

Groundwater Strategies

40. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Groundwater Outcome sixth schedule clause 39:
40.1. Undertake groundwater monitoring at appropriate locations once the IWL is established and during operations to validate the groundwater model and IWL seepage rates.

Visual Amenity Outcome

41. The Tenement Holder must during construction, operation and post-mine completion, ensure that the form, contrasting aspects and reflective aspects of mining operations are visually softened to blend in with the surrounding landscape.

Visual Amenity Strategies

42. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Visual Amenity Outcome sixth schedule clause 41;

42.1. Develop and implement strategies in consultation with affected parties for the management of visual amenity which should include (but not limited to):

42.1.1. The Tenement Holder must ensure that all infrastructure is decommissioned and removed from the Land at mine completion unless the Director of Mines (or other authorised officer) has approved, in writing, for the infrastructure to remain;

42.1.2. Screening of prominent built structures and use of non-reflective, natural coloured materials;

42.1.3. Establishing vegetation to screen built infrastructure and minimise views into the site. If the Tenement Holder believes that the screening vegetation would be more effective in providing screening, if established on land outside of the Mining Tenement (neighbouring land), the Tenement Holder may consult with the owner of the neighbouring land and if that person agrees to that establishment, and gives permission to the Tenement Holder to enter their land for that purpose, the Tenement Holder may plant the screening on that neighbouring land;

42.1.4. Positioning and design of permanent mine landforms or other earthen bunds to screen activities;

42.1.5. Shape permanent mine landforms to soften the visual impact and reflect surrounding landscape;

42.1.6. Prompt rehabilitation of disturbed areas once no longer required for mining operations, utilising every available opportunity provided by the mine plan;
42.1.7. Progressive rehabilitation of the IWL;
42.1.8. Vegetate external faces of permanent mine landforms to reduce the impact of changes in landscape colour.

**Visual Amenity Outcome – Light Spill**

43. The Tenement Holder must during construction and operation, ensure that there are no adverse impacts to third party land use as a result of light spill caused by mining operations.

**Visual Amenity Strategies – Light Spill**

44. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Visual Amenity Outcome – Light Spill sixth schedule clause 43:

44.1. Adhere to Australian Standard AS 4282-1997 Control of the obtrusive effects of outdoor lighting; and

44.2. Develop and implement strategies in consultation with affected parties for the management of Light Spill.

**Land Use Outcome**

45. The Tenement Holder must during construction, operation and post-mine completion, ensure that there are no adverse impacts to third party land use or property, adjacent to and on the Land, other than those agreed between the Tenement Holder and the affected user or determined by an appropriate court as evidenced in its order(s) (and the Tenement Holder must provide the Director of Mines (or other authorised officer) with a copy of the order(s), which shall be placed on the Mining Register).

**Land Use Outcomes – Mine Closure**

46. The Tenement Holder must ensure that the Land is progressively and finally rehabilitated to support the future land use.

47. Before mine completion, the Tenement Holder must satisfy the Director of Mines (or other authorised officer) that where practicable, the pre-mining land use can be recommenced post-mine completion.
Land Use Strategies – Mine Closure

48. The Tenement Holder is required to address the following matters for the purpose of Regulation 65(2)(c) in relation to the Land Use Outcomes – Mine Closure sixth schedule clauses 46 and 47;

48.1. The Tenement Holder must ensure that post-mine completion, all final mine landforms (including the IWL) will be chemically and physically stable in the long term.

Land Use Outcome – Shading

49. The Tenement Holder must during construction, operation and post-mine completion, ensure no impacts to agricultural productivity, including but not limited to;

49.1. reduction in crop yield;
49.2. reduction in grain quality; or
49.3. adverse health impacts to livestock;
for third party land users on or off the Land as a result of shading from mining operations, other than those agreed between the Tenement Holder and the affected user.

Land Use Strategies – Shading

50. The Tenement Holder is required to address the following matters for the purposes of Regulation 65(2)(c) in relation to the Land Use Outcome – Shading sixth schedule clause 49;

50.1. Develop strategies for the design of the IWL to ensure impacts from shading to agricultural productivity for third party land users on or off the Land are as low as reasonably practicable.
WUDINNA DISTRICT COUNCIL DEVELOPMENT PLAN

AT DATE OF GRANT OF THIS MINING TENEMENT