

# Permit

**Environmental Protection Act 1994**

**Environmental authority EA0002312**

*This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.*

**Environmental authority number: EA0002312**

**Environmental authority takes effect on the date the development approval MCU19/005 takes effect.**

**Environmental authority holder(s)**

| Name(s)                      | Registered address                    |
|------------------------------|---------------------------------------|
| Wagner Investments Pty. Ltd. | 619 Ruthven Street TOOWOOMBA QLD 4350 |

**Environmentally relevant activity and location details**

| Environmentally relevant activity/activities                                                                                                    | Location(s)                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (c) more than 1,000,000t | LOT 2 on RP20974, LOT 9 on RP20973 |
| ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (c) more than 1,000,000t                          | LOT 2 on RP20974, LOT 9 on RP20973 |
| ERA 06 - Asphalt manufacturing 1: Manufacturing more than 1000t of asphalt in a year                                                            | LOT 2 on RP20974, LOT 9 on RP20973 |

**Additional information for applicants**

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

#### Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days);

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website [www.qld.gov.au](http://www.qld.gov.au), using the search term 'duty to notify'.

#### Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

Clancy Mackaway  
Department of Environment and Science  
Delegate of the administering authority  
*Environmental Protection Act 1994*

**Date issued: 28 May 2020**

**Enquiries:**

Extraction, Energy and Chemical Industries  
Assessment  
Department of Environment and Science

Phone: 1300 130 372

Email: [palm@des.qld.gov.au](mailto:palm@des.qld.gov.au)

**Obligations under the *Environmental Protection Act 1994***

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

## Environmental authority

| General |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| G1      | <p><b>Activities</b> under this environmental authority must be conducted in accordance with the following limitations:</p> <ol style="list-style-type: none"> <li>1. the amount of material extracted from site must not exceed 1,200,000 tonnes per <b>year</b>; and</li> <li>2. the amount of asphalt manufactured must not exceed 120,000 tonnes per <b>year</b>; and</li> <li>3. the extraction pit depth must not exceed RL125m AHD; and</li> <li>4. all activities must be in accordance with the following site plans: <ol style="list-style-type: none"> <li>a. Appendix A – Frazerview Site Layout Plan</li> <li>b. Appendix B – Frazerview Access Track</li> </ol> </li> </ol> |
| G2      | <p>The only activities authorised between the hours of 6pm and 6am include haulage operations which includes:</p> <ol style="list-style-type: none"> <li>1. Sales loader operations; and</li> <li>2. Truck haulage; and</li> <li>3. Normal and emergency maintenance.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                          |
| G3      | All reasonable and practicable <b>measures</b> must be taken to prevent or minimise environmental harm caused by the <b>activities</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| G4      | Any breach of a condition of this environmental authority must be reported to the <b>administering authority</b> as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.                                                                                                                                                                                                                                                                                                                                                                                                 |
| G5      | Other than as permitted by this environmental authority, the <b>release of a contaminant into the environment</b> must not occur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| G6      | Environmental monitoring results must be kept until surrender of this environmental authority. All other information and records that are required by the conditions of this environmental authority must be kept for a minimum of five (5) years. All information and records required by the conditions of this environmental authority must be provided to the <b>administering authority</b> , or <b>nominated delegate</b> upon request, within the required timeframe and in the specified format.                                                                                                                                                                                  |
| G7      | All information and records required by the conditions of this environmental authority must be kept for a minimum of five years with the exception of environmental monitoring results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Environmental authority

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|     | which must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the <b>administering authority</b> upon request and in the format requested.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| G8  | An <b>appropriately qualified person(s)</b> must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| G9  | All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities ( <b>NATA</b> ) certification, or an equivalent certification, for such analyses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| G10 | When required by the <b>administering authority</b> , monitoring must be undertaken in the manner prescribed by the <b>administering authority</b> , to investigate a complaint of <b>environmental nuisance</b> arising from the activity. The monitoring results must be provided within 10 business days to the <b>administering authority</b> upon its request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| G11 | <p><b>You</b> must record the following details of all environmental complaints received:</p> <ol style="list-style-type: none"> <li>1. date and time the complaint was received; and</li> <li>2. name and contact details of the complainant when provided and authorised by the complainant; and</li> <li>3. nature of the complaint; and</li> <li>4. investigation undertaken; and</li> <li>5. conclusions formed; and</li> <li>6. action taken.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                         |
| G12 | <p>The <b>activity</b> must be undertaken in accordance with written procedures that:</p> <ol style="list-style-type: none"> <li>1. identify potential risks to the environment from the <b>activity</b> during routine operations, closure and an emergency; and</li> <li>2. establish and maintain control <b>measures</b> that minimise the potential for environmental harm; and</li> <li>3. ensure plant, equipment and <b>measures</b> are maintained in a proper and effective condition; and</li> <li>4. ensure plant, equipment and <b>measures</b> are operated in a proper and effective manner; and</li> <li>5. ensure that staff are trained in and aware of their obligations under the Environmental Protection Act 1994; and</li> <li>6. ensure that reviews of environmental performance are undertaken at least annually.</li> </ol> |

## Environmental authority

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| G13             | All reasonable and practicable measures must be taken to exclude vectors and pest species to the extent necessary to prevent: <ol style="list-style-type: none"> <li>1. environmental nuisance to occupiers of neighbouring premises; and</li> <li>2. any danger or risk to the health of any persons.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| G14             | Chemicals and fuels in containers of greater than 15 litres must be stored within a <b>secondary containment system</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| G15             | All waste generated in carrying out the <b>activity</b> must be reused, recycled or removed to a facility that can lawfully accept the waste.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AIR</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| A1              | Other than as permitted within this environmental authority, odours or airborne contaminants must not cause environmental nuisance to any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| A2              | Dust and particulate matter emissions must not exceed the following concentrations at any sensitive place or commercial place: <ol style="list-style-type: none"> <li>(a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions), or</li> <li>(b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (<math>\mu\text{m}</math>) (<math>\text{PM}_{10}</math>) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, when monitored in accordance with Australian Standard AS 3580.9.6 (or more recent editions) or any other method approved by the administering authority.</li> </ol> |
| A3              | The holder of this environmental authority must develop and implement an odour management plan. This plan must be prepared to ensure that odour does not adversely affect the welfare and amenity of nearby <b>land</b> uses.<br><br>The plan must include, but not necessarily be limited to: <ol style="list-style-type: none"> <li>1) identification of odour sources;</li> <li>2) minimisation of odour at the sources including management and control strategies; and</li> <li>3) monitoring of odour emissions as appropriate.</li> </ol>                                                                                                                                                                                                                           |
| <b>Acoustic</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| N1              | Noise generated by the <b>activity</b> must not cause <b>environmental nuisance</b> to any <b>sensitive</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

N2

Noise from the **activity** must not exceed the levels identified in *Table – Noise Limits* at a nuisance **sensitive place** when measured in accordance with the associated monitoring requirements at any nuisance **sensitive** or **commercial place**.

Table 1 – Noise Limits

| Noise level measured in LAeq dB(A)                                            | Monday to Saturday |           |            |            | Sunday and Public Holidays |            |            |
|-------------------------------------------------------------------------------|--------------------|-----------|------------|------------|----------------------------|------------|------------|
|                                                                               | 6am – 7am          | 7am – 6pm | 6pm – 10pm | 10pm – 6am | 9am – 6pm                  | 6pm - 10pm | 10pm – 9am |
| Horan Road R1 and R16-R22 (as identified in Appendix C – sensitive receptors) | 38                 | 40        | 37         | 29         | 37                         | 37         | 29         |
| R2 to R15 (as identified in Appendix C – sensitive receptors)                 | 43                 | 43        | 43         | 38         | 43                         | 43         | 30         |

Associated monitoring requirements

1. All monitoring devices must be calibrated and maintained according to the manufacturer’s instruction manual.

2. Any monitoring must be in accordance with the most recent version of the administering authority’s *Noise Measurement Manual*.

3. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation.

N3

When required by the administering authority, noise monitoring must be undertaken in accordance with the associated monitoring requirements of *Tables 3 and 4 –Noise Limits*.

|                                                | <p>and the results notified within 14 days to the administering authority. Monitoring must include:</p> <ol style="list-style-type: none"> <li>1. <math>L_{Aeq,adj,T}</math></li> <li>2. background noise (background) as <math>L_{A 90,adj,T}</math></li> <li>3. <math>L_{A,max,T}</math></li> <li>4. the level and frequency of occurrence of any impulsive or tonal noise</li> <li>5. atmospheric conditions including wind speed and direction</li> <li>6. effects due to extraneous factors such as traffic noise</li> <li>7. recording of location, date and time of measurements.</li> </ol>                                                                                                                                                                                                           |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                  |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| N4                                             | Rock drilling operations at exposed locations may only occur between 7am to 6pm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                  |
| N5                                             | Mobile plant equipment including front-end loaders, dozers, haul trucks and excavators must be fitted with broadband reversing alarms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                  |
| N6                                             | <p><b>Blasting</b> activities must not exceed the limits for peak particle velocity and air blast overpressure in <i>Table 2 – Blasting noise limits</i> when measured at any <b>sensitive place</b> or <b>commercial place</b> in accordance with the associated monitoring requirements.</p> <p><b>Table – Blasting noise limits</b></p> <table> <tr> <th>Blasting Criteria</th><th>Blasting Limits</th></tr> <tr> <td>Airblast overpressure</td><td>115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time,</td></tr> <tr> <td>Ground <b>vibration</b> peak particle velocity</td><td>5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time</td></tr> </table> | Blasting Criteria | Blasting Limits | Airblast overpressure | 115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time, | Ground <b>vibration</b> peak particle velocity | 5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time |
| Blasting Criteria                              | Blasting Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                  |
| Airblast overpressure                          | 115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                  |
| Ground <b>vibration</b> peak particle velocity | 5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                  |
| N7                                             | <b>Blasting</b> must be carried out in accordance with the current edition of the <b>administering authority's Noise and vibration from blasting guideline</b> and with <i>Australian Standard 2187</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                  |
| N8                                             | <p>Unless prior approval is obtained from the <b>administering authority</b>:</p> <ol style="list-style-type: none"> <li>1. <b>blasting</b> is only permitted during the hours of 9am to 3pm Monday to Friday, and from 9 am to 1pm on Saturdays;</li> <li>2. <b>blasting</b> is not permitted at any time on Sundays or public holidays.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                  |

## Environmental authority

| N9                              | When required by the <b>administering authority</b> , a blast monitoring program must be developed and implemented to monitor compliance with <i>Table – Blasting noise limits</i> at any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 |                    |                            |              |                    |      |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------|----------------------------|--------------|--------------------|------|
| Land                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                    |                            |              |                    |      |
| L1                              | Contaminants must not be released to <b>land</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                    |                            |              |                    |      |
| L2                              | Treatment and management of acid sulfate soils must comply with the guidance provided in the current edition of the Queensland Acid Sulfate Soil Technical Manual.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                    |                            |              |                    |      |
| L3                              | Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: <div><div>1. suitable native species of vegetation for the location are established and sustained for earthen surfaces; and</div><div>2. potential for erosion is minimised; and</div><div>3. the quality of water released from the site, including seepage, does not cause environmental harm; and</div><div>4. potential for environmental nuisance caused by dust is minimised; and</div><div>5. the water quality of any residual water body does not have potential to cause environmental harm; and</div><div>6. the final landform is stable and protects public safety.</div></div> |                                 |                    |                            |              |                    |      |
| L4                              | Rehabilitation of disturbed areas required under condition L3, must take place progressively as works are staged and are commenced.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                    |                            |              |                    |      |
| L5                              | Effective erosion and sediment control structures must be designed, installed and maintained wherever necessary to prevent erosion of disturbed areas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |                    |                            |              |                    |      |
| L6                              | <p><b>Significant residual impacts</b> on <b>prescribed environmental matters</b> are not authorised under this environmental authority or the <i>Environmental Offsets Act 2014</i> unless the impact(s) is specified in <b>Table L1 – Significant residual impacts to prescribed environmental matters</b></p> <p><b>Table L1 – Significant residual impacts to prescribed environmental matters</b></p> <table><tr><th>Prescribed environmental matter</th><th>Location of impact</th><th>Maximum extent in hectares</th></tr><tr><td>Connectivity</td><td>Lot 9 Plan RP20973</td><td>56.2</td></tr></table>                                                                                                                    | Prescribed environmental matter | Location of impact | Maximum extent in hectares | Connectivity | Lot 9 Plan RP20973 | 56.2 |
| Prescribed environmental matter | Location of impact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Maximum extent in hectares      |                    |                            |              |                    |      |
| Connectivity                    | Lot 9 Plan RP20973                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 56.2                            |                    |                            |              |                    |      |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |      |
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|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Lot 2 Plan RP20974                       |      |
|    | <b>Regulated Vegetation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |      |
|    | Regional Ecosystem<br>12.8.17                                                                                                                                                                                                                                                                                                                                                                                                                              | Lot 9 Plan RP20973<br>Lot 2 Plan RP20974 | 56   |
|    | Regional Ecosystem<br>12.8.14a                                                                                                                                                                                                                                                                                                                                                                                                                             | Lot 9 Plan RP20973<br>Lot 2 Plan RP20974 | 0.2  |
|    | <b>Essential Habitat</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |      |
|    | Koala ( <i>Phascolarctos cinereus</i> )                                                                                                                                                                                                                                                                                                                                                                                                                    | Lot 9 Plan RP20973<br>Lot 2 Plan RP20974 | 56.6 |
|    | <b>Protected Wildlife Habitat</b>                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |      |
|    | Koala ( <i>Phascolarctos cinereus</i> )                                                                                                                                                                                                                                                                                                                                                                                                                    | Lot 9 Plan RP20973<br>Lot 2 Plan RP20974 | 56.6 |
| L7 | Records demonstrating that each impact to a prescribed environmental matter did not, or is not likely to, result in a significant residual impact to that matter must be:<br><br>(a) completed by an <u>appropriately qualified person</u> ; and<br>(b) kept for the life of the environmental authority.                                                                                                                                                  |                                          |      |
| L8 | An environmental offset made in accordance with the <i>Environmental Offsets Act 2014</i> and Queensland Environmental Offsets Policy, as amended from time to time, must be undertaken for the maximum extent of impact to each prescribed environmental matter authorised in <b>Table L1 — Significant residual impacts to prescribed environmental matters</b> , unless a lesser extent of the impact has been approved by the administering authority. |                                          |      |
| L9 | The notice of election for the environmental offset required by condition L8, if applicable, must be provided to the administering authority no less than three months before the proposed commencement of the significant residual impacts for which the environmental offset is required.                                                                                                                                                                |                                          |      |

## Environmental authority

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| L10          | Before applying to surrender this environmental authority, the site must be rehabilitated to achieve a safe, stable and non-polluting landform.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| L11          | Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: <ol style="list-style-type: none"> <li>1. suitable native species of vegetation for the location are established and sustained for earthen surfaces;</li> <li>2. potential for erosion is minimised;</li> <li>3. the quality of water released from the site, including seepage, does not cause environmental harm;</li> <li>4. potential for environmental nuisance caused by dust is minimised;</li> <li>5. the water quality of any residual water body does not have potential to cause environmental harm;</li> <li>6. the final landform is stable and protects public safety.</li> </ol> |
| L12          | Rehabilitation of <b>disturbed areas</b> required under condition L11, must take place progressively as works are staged and new extraction areas are commenced.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Water</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| W1           | Contaminants must not be directly or indirectly released to any <b>waters</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| W2           | Contaminants must not be released to <b>groundwater</b> or at a location where they are likely to release to <b>groundwater</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| W3           | The stormwater runoff from <b>disturbed areas</b> , generated by a storm event up to and including a <b>24 hour storm event with an average recurrence interval of one-in-five years</b> must be retained on site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| W4           | <b>Stormwater that is not contaminated by the activity</b> must be diverted away from areas where it may become contaminated by the activity. Stormwater that is contaminated by the activity must be directed to a treatment system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| W5           | Settled, treated stormwater runoff from areas of the site not likely contaminated with waste may be released to surface waters in response to a <b>24 hour storm event with an average recurrence interval of 1-in-5 years</b> in accordance with <b>Table W1 – Surface water release limits</b> and the associated monitoring requirements.<br><br><b>Table W1 – Surface water release limits</b>                                                                                                                                                                                                                                                                                                                                    |

| Release Point(s)<br>Description (GDA94)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quality characteristics                                                                                                                  | Limit                                                                       | Limit Type | Monitoring Frequency   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------|------------------------|
| RP1:<br><br>E: 457267,<br>N: 6910216<br><br>RP2:<br><br>E: 457457,<br>N: 6911454                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Total Suspended Solids                                                                                                                   | 12mg/L or background* plus 10% whichever is higher. To a maximum of 50mg/L. | Maximum    | Daily during discharge |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | pH                                                                                                                                       | 6.5 – 8.5                                                                   | Range      |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Electrical Conductivity                                                                                                                  | 500µS/cm                                                                    | Maximum    |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Dissolved Oxygen                                                                                                                         | 90-110% saturation                                                          | Range      |                        |
| <p>* Background to be measured at locations identified in <b>Appendix D – Surface Water Release Points and Background Water Monitoring Locations</b></p> <p><b>Associated monitoring requirements</b></p> <ol style="list-style-type: none"><li>1. Monitoring location and release points must be situated and maintained in accordance with plan attached.</li><li>2. Monitoring must be in accordance with the methods prescribed in the current edition of the Department of Environment and Science Monitoring and Sampling Manual.</li><li>3. Water and sediment samples must be representative of the general condition of the water body or sediments.</li><li>4. All determinations must employ analytical practical quantification limits of sufficiently sensitivity to enable comparisons to be made against water quality objectives/triggers/limits relevant to the particular water or sediment quality characteristic.</li><li>5. Monitoring must be undertaken during a release and at the frequency stated.</li><li>6. All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.</li></ol> |                                                                                                                                          |                                                                             |            |                        |
| W6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | The release to waters permitted under W5 must not contain any other properties at a concentration capable of causing environmental harm. |                                                                             |            |                        |

|    |                                                                                                                                                                      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| W7 | The release to waters permitted under W5 must not produce any slick or other visible evidence of oil or grease, scum, litter or other visually objectionable matter. |
| W8 | The quarry extraction pit must not intercept groundwater.                                                                                                            |

## Definitions

|                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>24 hour storm event with an average recurrence interval of one-in- five years</b> | means the maximum rainfall depth from a 24-hour duration precipitation event with an average recurrence interval of once in 5 years and has been calculated for this site as 130mm.                                                                                                                                                                                                                                                                                                                                     |
| <b>activities/activity</b>                                                           | means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>administering authority</b>                                                       | means the Department of Environment and Science or its successor or predecessors.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>airblast overpressure</b>                                                         | is the energy transmitted from the blast site within the atmosphere in the form of pressure waves. As these waves pass a given position, the pressure of the air rises very rapidly then falls more slowly then returns to the ambient value after a number of oscillations. The pressure wave consists of both audible (noise) and inaudible (concussion) energy. The maximum excess pressure in this wave is known as the peak air overpressure, generally measured in decibels using the linear frequency-weighting. |
| <b>appropriately qualified person(s)</b>                                             | means a person or persons who has professional qualifications, training, skills or experience relevant to the EA requirement and can give authoritative assessment, advice and analysis in relation to the EA requirements using the relevant protocols, standards, methods or literature                                                                                                                                                                                                                               |
| <b>blasting</b>                                                                      | is the use of explosives to fracture: <ul style="list-style-type: none"> <li>• rock, coal and other minerals for later recovery; or</li> <li>• structural components or other items to facilitate removal from a site or for reuse.</li> </ul>                                                                                                                                                                                                                                                                          |
| <b>commercial place</b>                                                              | means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.                                                                                                                                                                                                                                                                                                                                 |
| <b>disturbed areas</b>                                                               | includes areas: <ol style="list-style-type: none"> <li>1. that are susceptible to erosion;</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Environmental authority

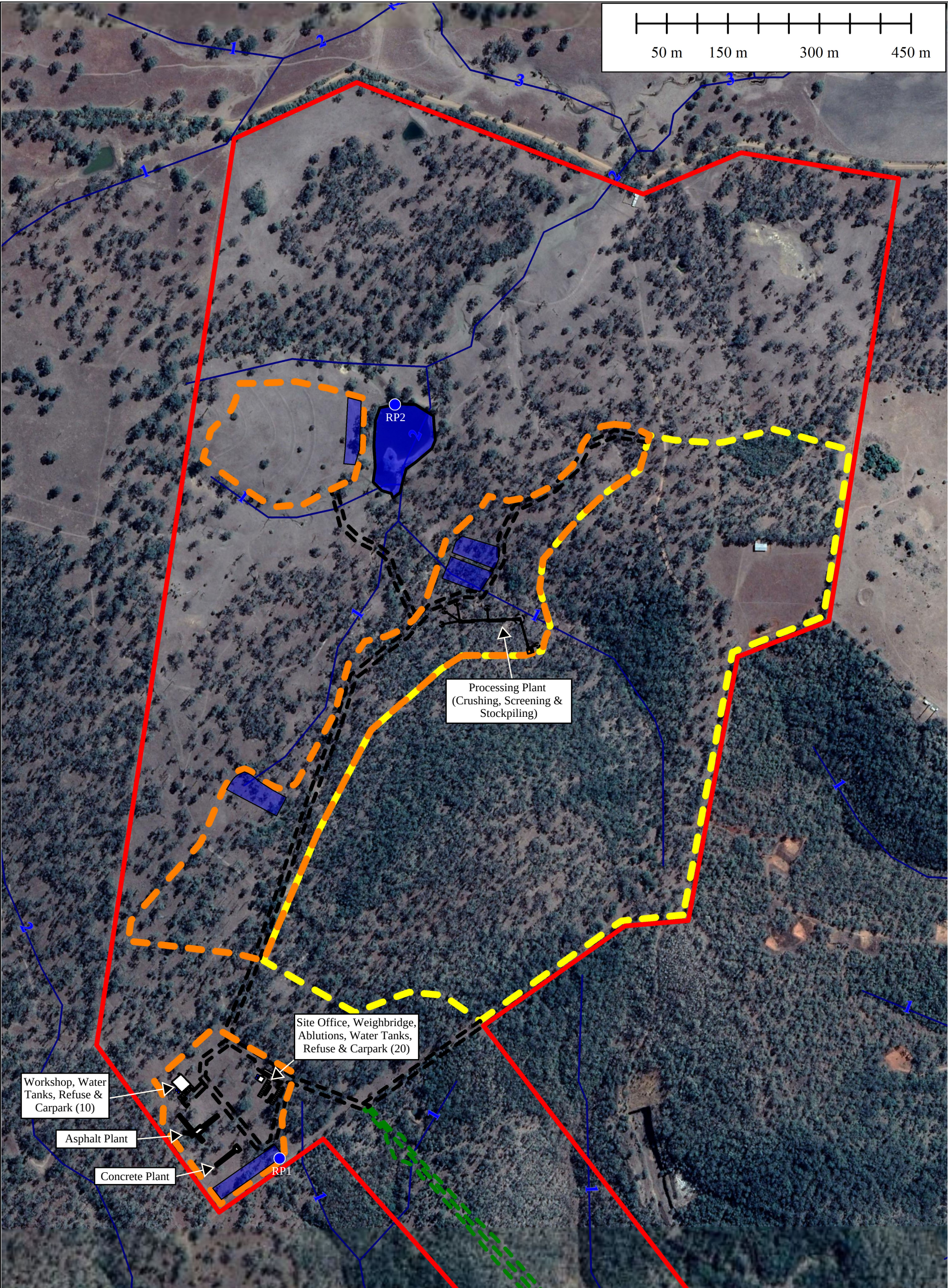
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | <ol style="list-style-type: none"> <li>2. that are contaminated by the activity; and/or</li> <li>3. upon which stockpiles of soil or other materials are located.</li> </ol>                                                                                                                                                                                                                                                                                                                            |
| <b>environmental nuisance</b>           | as defined in Chapter 1 of the Environmental Protection Act 1994.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>groundwater</b>                      | means water that occurs naturally in, or is introduced artificially into, an aquifer.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>LAeq, adj, T</b>                     | means the adjusted A weighted equivalent continuous sound pressure level measures on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes when the <b>activity</b> is causing a steady state noise, and no shorter than one hour when the approved <b>activity</b> is causing an intermittent noise.                                                                                                              |
| <b>land</b>                             | Land means any land, whether above or below the ordinary high-water mark at spring tides                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>LAm<sub>ax</sub>, T</b>              | means the maximum A-weighted sound pressure level measured over a time period T of not less than 15 minutes, using Fast response.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>measures</b>                         | <p>Measures has the broadest interpretation and includes:</p> <ul style="list-style-type: none"> <li>• Procedural measures such as standard operating procedures for dredging operations, environmental risk assessment, management actions, departmental direction and competency expectations under relevant guidelines</li> <li>• Physical measures such as plant, equipment, physical objects (such as bunding, containment systems etc.), ecosystem monitoring and bathymetric surveys.</li> </ul> |
| <b>NATA</b>                             | means National Association of Testing Authorities.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>nominated delegate</b>               | means another government agency that provides services to the administering authority.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>prescribed environmental matters</b> | has the meaning in section 10 of the Environmental Offsets Act 2014, limited to the matters of State environmental significant                                                                                                                                                                                                                                                                                                                                                                          |

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                            | listed in schedule 2 of the Environmental Offsets Regulation 2014.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>release of contaminant into the environment</b>         | <p>means to:</p> <ul style="list-style-type: none"> <li>• deposit, discharge, emit or disturb the contaminant</li> <li>• cause or allow the contaminant to be deposited, discharged, emitted or disturbed</li> <li>• fail to prevent the contaminant from being deposited, discharged emitted or disturbed</li> <li>• allow the contaminant to escape</li> <li>• fail to prevent the contaminant from escaping.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                     |
| <b>secondary containment system</b>                        | means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, <b>groundwater</b> , or surface waters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>sensitive place</b>                                     | <p>includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:</p> <ol style="list-style-type: none"> <li>1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or</li> <li>2. a motel, hotel or hostel; or</li> <li>3. a kindergarten, school, university or other educational institution; or</li> <li>4. a medical centre or hospital; or</li> <li>5. a protected area under the Nature Conservation Act 1992, the Marine Parks Act 2004 or a World Heritage Area; or</li> <li>6. a public park or garden; or</li> <li>7. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2019.</li> </ol> |
| <b>significant residual impact</b>                         | has the meaning in section 8 Environmental Offsets Act 2014.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>stormwater that is not contaminated by the activity</b> | includes stormwater runoff from external or undisturbed catchments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>vibration</b>                                           | is the oscillating or periodic motion of a particle, group of particles, or solid object about its equilibrium position.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Environmental authority**

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|               |                                                                                                                                                                                                                                                                                                                                              |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>waters</b> | includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof. |
| <b>you</b>    | means the holder of the environmental authority                                                                                                                                                                                                                                                                                              |



**LEGEND**

|                       |                                    |
|-----------------------|------------------------------------|
| — Property Boundary   | - - - Processing/Stockpiling Areas |
| - - - Access Road     | - - - Internal Roads               |
| - - - Extraction Area | ■ Sediment Basins                  |
| — Watercourses        | ● Discharge Points                 |

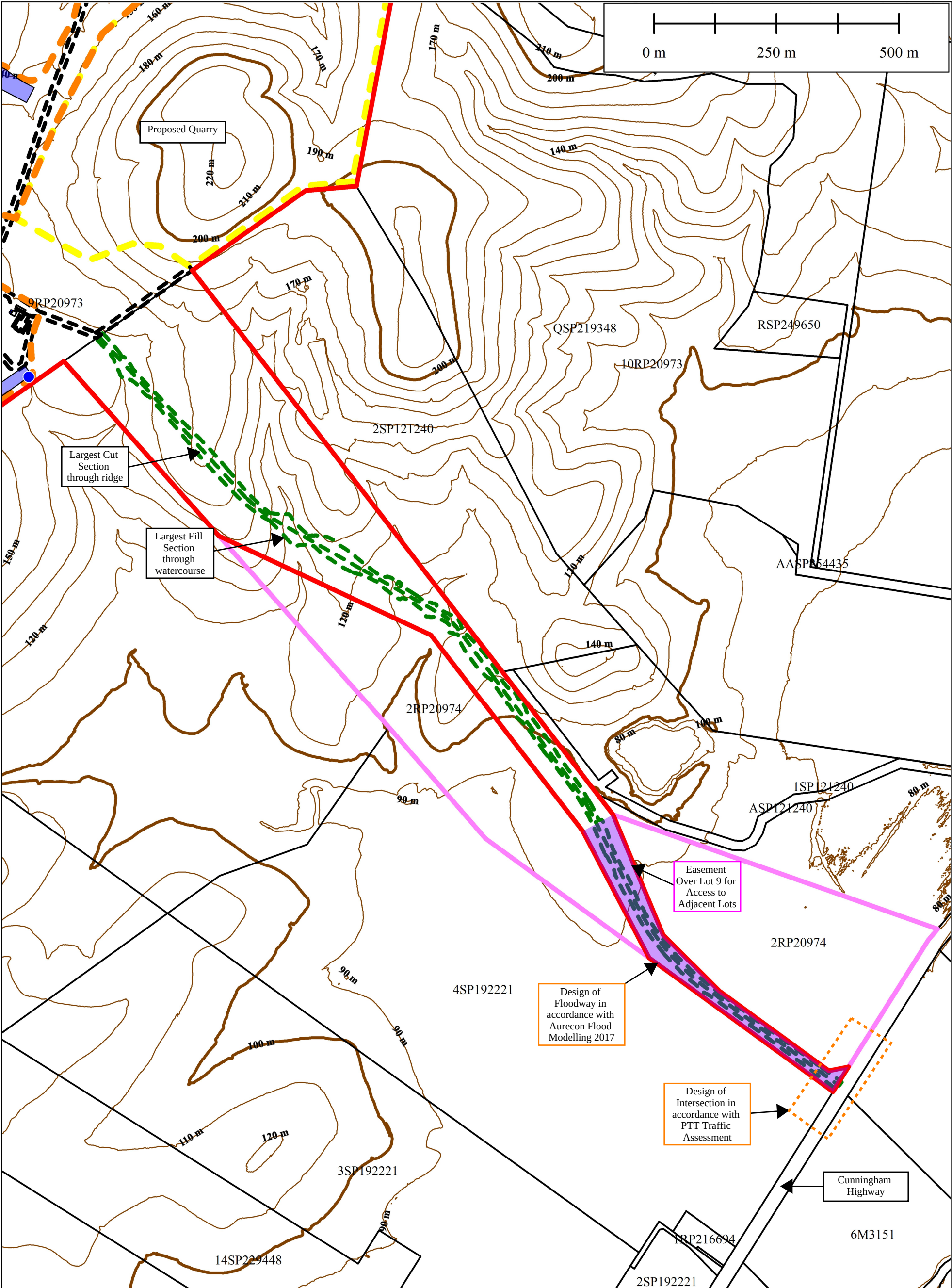
**AUSROCKS**  
CONSULTING MINING ENGINEERS

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Virginia BC, QLD 4014

Phone: (07) 3265 3399  
www.ausrocks.com.au  
ABN: 64 056 939 014

|                                                                |                       |
|----------------------------------------------------------------|-----------------------|
| Title<br><b>Wagners Frazerview Quarry<br/>Site Layout Plan</b> |                       |
| Project No<br>AUQ00126D                                        | Drawing No<br>SLP001  |
| Drawn<br>CM                                                    | Checked<br>DB         |
| Scale<br>1:6,000 (A3)                                          | Datum<br>GDA94        |
| Date<br>26/05/2020                                             | Status<br>Version 1.5 |

Appendix B - Frazerview Access Track



**LEGEND**

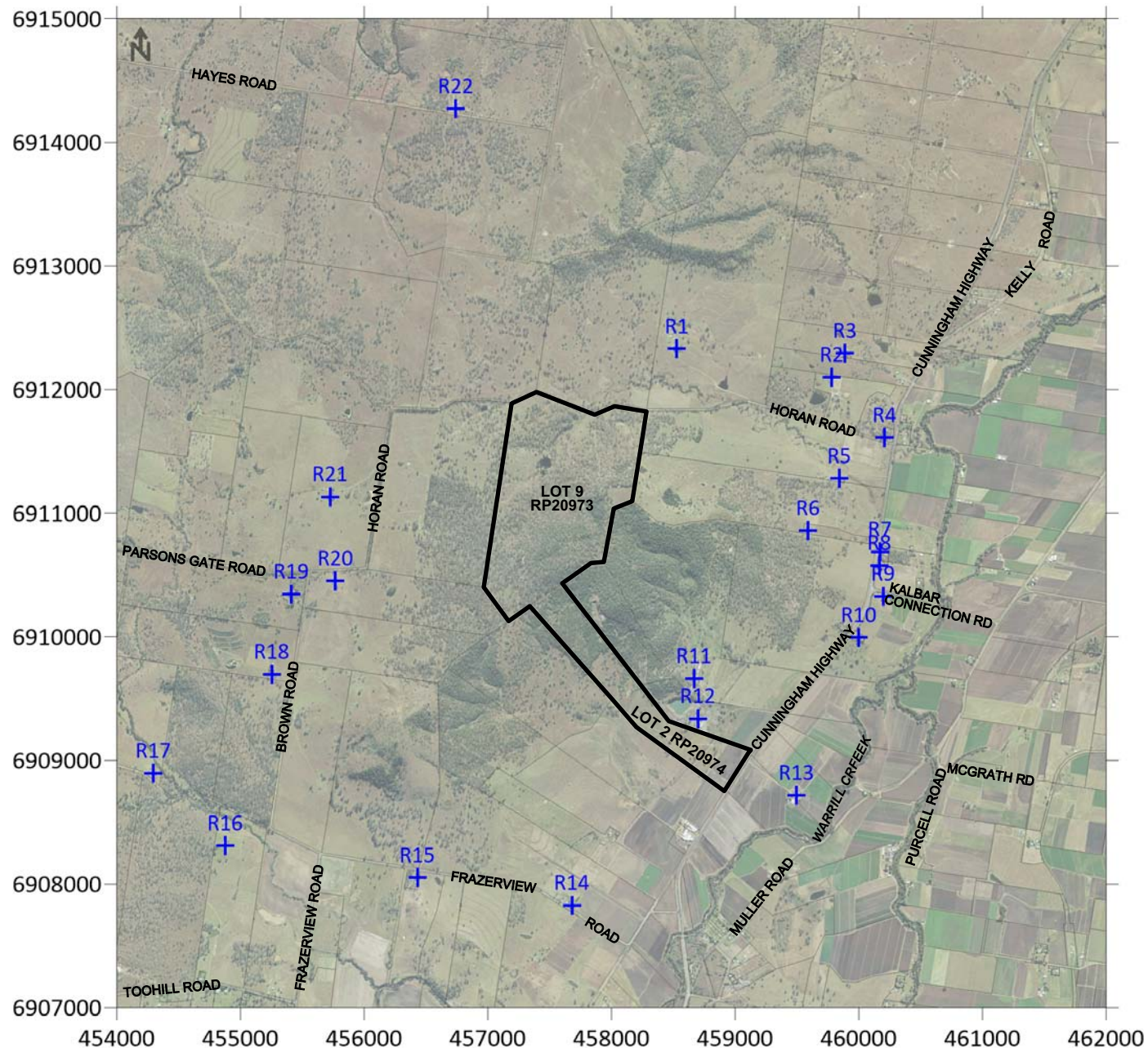
|                             |                         |
|-----------------------------|-------------------------|
| Existing Lot Boundaries     | Access Road Centre line |
| Proposed Lot 9 Re-alignment | Cut/Fill Boundary       |
| Proposed Lot 2 Re-alignment | Easement                |
| 10m Contours                |                         |

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|                                                                |                       |
|----------------------------------------------------------------|-----------------------|
| Title<br><b>Wagners Frazerview Quarry<br/>Access Road Plan</b> |                       |
| Project No<br>AUQ00126D                                        | Drawing No<br>ARP001  |
| Drawn<br>CM                                                    | Checked<br>DB         |
| Scale<br>1:7,500 (A3)                                          | Datum<br>GDA94        |
| Date<br>13/02/2020                                             | Status<br>Version 1.2 |

# Appendix C - Sensitive Receptors



**LEGEND**  
 — SITE BOUNDARY  
 +R22 SENSITIVE RECEPTORS (R1-22)  
**DRAWING REFERENCE**  
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CLIENT  
**AUSROCKS PTY LTD**

PROJECT  
**NOISE IMPACT  
 ASSESSMENT  
 PROPOSED QAURRY**  
 LOT 9 RP20973 AND LOT 2 RP20974  
 FRAZERVIEW QUEENSLAND

TITLE  
**REPRESENTATIVE  
 RECEPTOR  
 LOCATIONS**

|         |              |                 |
|---------|--------------|-----------------|
| JOB     | FRASERVIEW   | <b>FIGURE 2</b> |
| JOB NO. | 18-136       |                 |
| DATE    | 18/12/18     |                 |
| SCALE   | 1:50000 (A4) |                 |
| REV.    |              | <b>18-136-2</b> |



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## Appendix D - Surface Water Release Points and Monitoring Locations

