



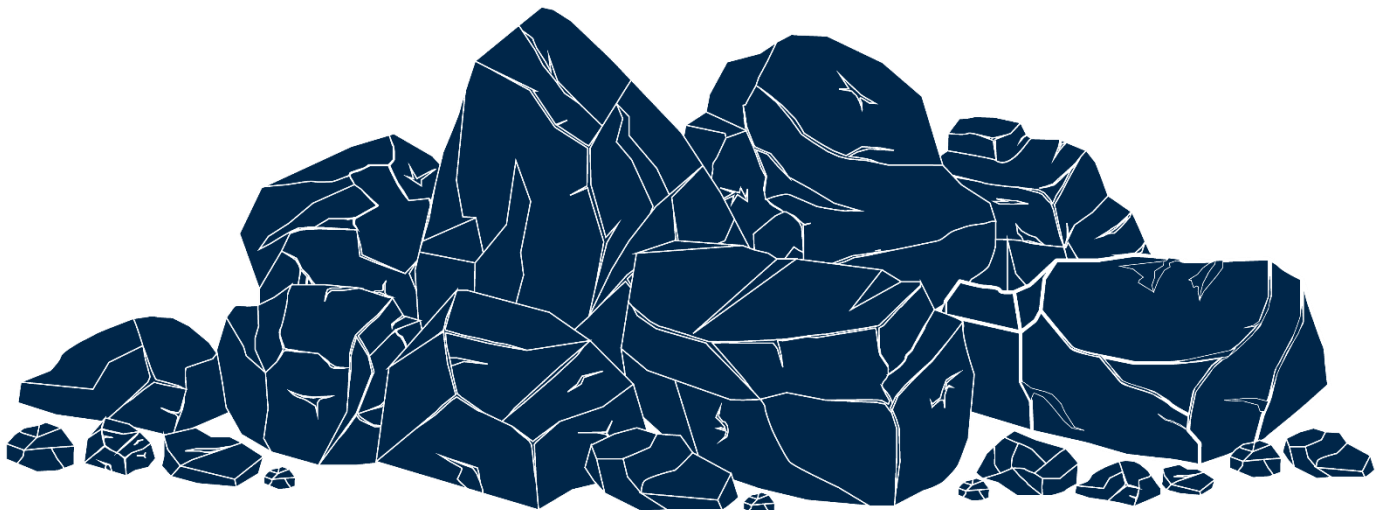
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Karuah East Quarry

# Pollution Incident Response Management Plan

June 2026



## Revision History

Version	Date Reviewed	Author	Amendment Details
1A	April 2016	SLR	Original draft PIRMP developed to satisfy the requirements under POEO Act 1997 for the commencement of construction at the Karuah East Quarry site.
1B	October 2016	SLR	Minor updates to finalise document.
2	December 2024	IEMA & KEQPL	Comprehensive review and update for revised PIRMP Guidelines (EPA, September 2022). Update for new Hunter Quarries' document template.
3	February 2025	KEQPL	Update to include PIRMP testing records in accordance with EPA direction received 06 February 2025 for the adjacent Karuah Hard Rock Quarry (EPL 11569).
4	June 2025	KEQPL	Update for personnel changes and PIRMP testing details.
5	June 2026	KEQPL	Comprehensive review completed following receipt of EPL Variation dated 09 June 2026 associated with the EPA's licensing reforms. Update for personnel changes, Relevant Authority contacts and PIRMP testing details.

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## Environment Protection Licence Details

<b>Licence Holder:</b>	Karuah East Quarry Pty Limited PO Box 3284 Thornton, NSW 2322 ABN: 80 141 505 035	
<b>EPL Number:</b>	EPL 20611	
<b>EPL Anniversary Date:</b>	26 August	
<b>Premises:</b>	Karuah East Quarry Blue Rock Close Karuah, NSW 2324	
<b>Authorised Business Contact:</b>	Scott Ellerton Environment & Development Manager 0447 044 646 <a href="mailto:se@hunterquarries.com.au">se@hunterquarries.com.au</a>	
<b>Website:</b>	<a href="https://hunterquarries.com.au/reporting/">https://hunterquarries.com.au/reporting/</a>	
<b>Scheduled Activity:</b>	Crushing, Grinding or Separating Extractive activities	
<b>Fee-Based Activity:</b>	Crushing, Grinding or Separating	> 500,000 – 2,000,000 T annual processing capacity
	Extractive activities	> 500,000 – 2,000,000 T annually extracted or processed

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## Terms, Definitions and Abbreviations

Abbreviation / Term	Meaning
AQMP	Air Quality Management Plan
BMP	Blast Management Plan
BOA	Biodiversity Offset Area
EA	Environmental Assessment
EIS	Environmental Impact Statement
EMS	Environmental Management Strategy
EPA	NSW Environmental Protection Authority
EPBC Act	Commonwealth <i>Environment Protection &amp; Biodiversity Conservation Act 1999</i>
EPL	Environment Protection Licence
IPC	NSW Independent Planning Commission
HQPL	Hunter Quarries Pty Ltd
KEQPL	Karuah East Quarry Pty Limited
KEQ	Karuah East Quarry
KHRQ	Karuah Hard Rock Quarry
km	Kilometre
LDP	Licensed Discharge Point
MCC	MidCoast Council
MSDS	Material Safety Data Sheet
NMP	Noise Management Plan
NSW Planning	NSW Department of Planning, Housing and Infrastructure
PPE	Personal Protective Equipment
Planning Secretary	Secretary of NSW Department of Planning, Housing and Infrastructure
PIRMP	Pollution Incident Response Management Plan
POEO Act	NSW <i>Protection of the Environment Operations Act 1997</i>
POEO(G) Regulation	NSW <i>Protection of the Environment Operations (General) Regulation 2022</i>
TMP	Transport Management Plan
tpa	tonnes per annum
WMP	Water Management Plan

## 1.0 Introduction

### 1.1 Overview of the Karuah East Quarry

Karuah East Quarry Pty Limited (KEQPL) operates the Karuah East Quarry (KEQ), located approximately 5 km northeast of the township of Karuah, in the MidCoast Council LGA. KEQ supplies hard rock quarry products to the construction, infrastructure and land development industries, within the Greater Newcastle, Hunter Valley and Mid-North Coast regions.

Project Approval (MP09\_0175) was granted for the KEQ on 17 June 2014 by the Independent Planning Commission (IPC) (formerly the NSW Planning Assessment Commission) on behalf of the Minister for Planning and Public Spaces (formerly Minister for Planning). Commonwealth Approval (EPBC 2014/7282) was granted for KEQ under the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) on 20 March 2015. A second Commonwealth Approval (EPBC 2022/9164) was granted for the KEQ MOD10 Stockpile Extension Project on 02 July 2025.

The KEQ site has approval to extract, process, stockpile and transport up to 1.5 million tonnes of andesite material annually until 2034.

### 1.2 Project Site

The KEQ site is located off the Pacific Highway (via Blue Rock Close) and is situated on the following lands:

- Lot 12 and 13 DP 1024564 (the KEQ site);
- Lot 14 and part Lot 13 DP 1024564 and Lot 5 DP 838128 (Eastern Biodiversity Offset Area);
- Part Lot 21 DP 104 2537 (Western Biodiversity Offset Area).

The KEQ site is well separated from any substantial residential areas and is located adjacent to the existing Karuah Hard Rock Quarry (KHRQ), approved in June 2005 under DA 265-10-2004. The KHRQ is operated by Hunter Quarries Pty Ltd (a company affiliated with KEQPL) however the Karuah East Quarry and the Karuah Hard Rock Quarry are standalone quarry operations.

**Figures 1 and 2** illustrate the site within its broader regional context and site layouts.

### 1.3 Purpose

This document has been prepared to provide KEQPL with a consistent approach to the management of environmental and pollution incidents; and sets out the minimum standards and processes to achieve this intended level of management. The Pollution Incident Response Management Plan (PIRMP) applies only to the KEQ site described in **Section 1.2** and illustrated in **Figure 1 and 2**.

As such, the purpose of this PIRMP is to:

- Minimise the chance of a pollution incident taking place and any subsequent environmental impact;
- Outline the key management and reporting strategies in case of a pollution incident occurring; and
- Ensure efficient communication and assist in the training of staff so that this plan is implemented as intended, and the procedures are followed to minimise risk to employees and the environment.

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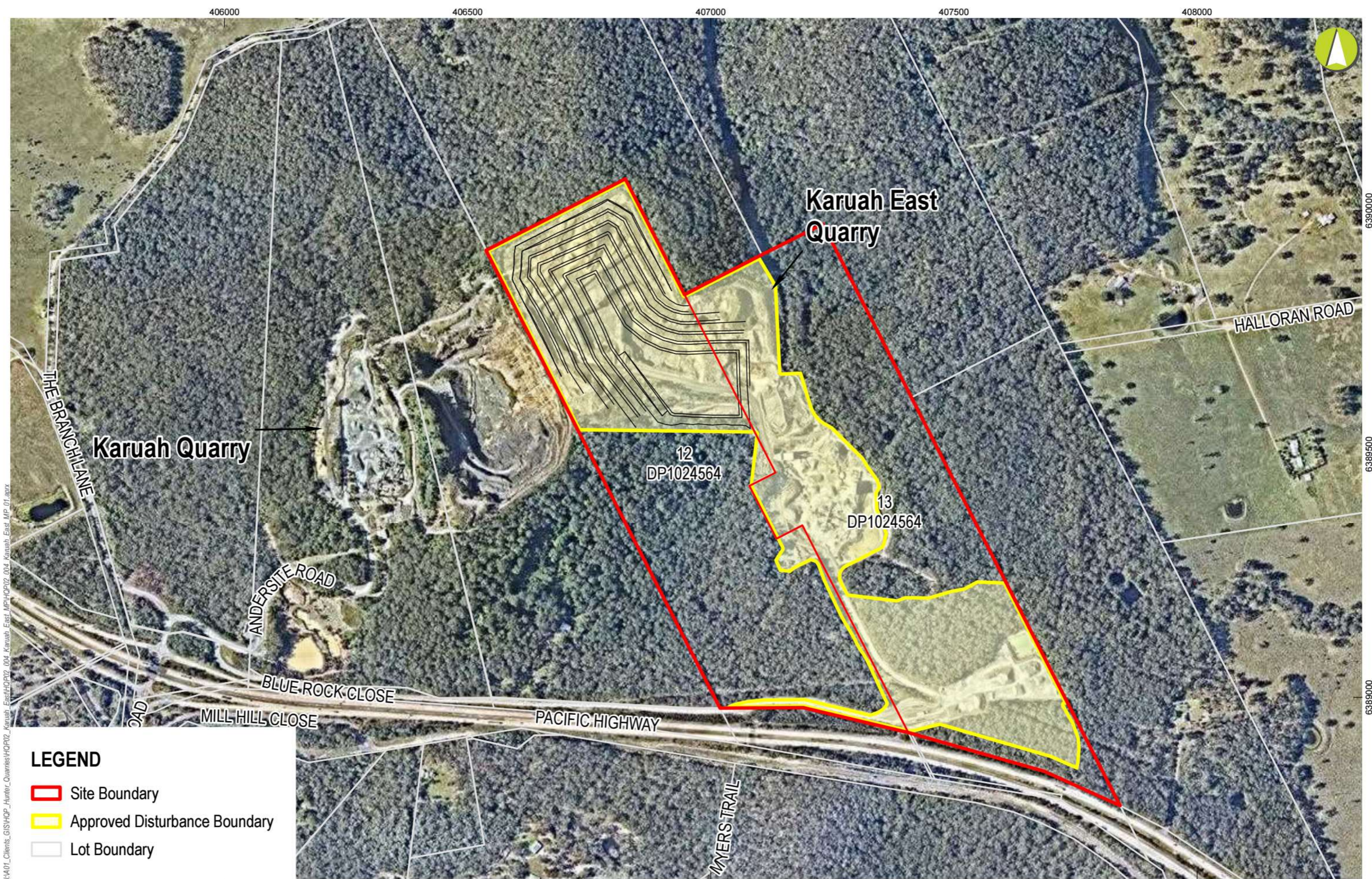
**LEGEND**

- Site Boundary
- Lot Boundary

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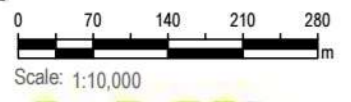
GDA 1994 MGA Zone 56  
27/02/2024

Karuah East Quarry



**LEGEND**

- ▭ Site Boundary
- ▭ Approved Disturbance Boundary
- ▭ Lot Boundary



GDA 1994 MGA Zone 56  
27/02/2024

**Karuah East Quarry**

## 2.0 Overview of the PIRMP

### 2.1 Objectives

Pollution Incident Response Management Plans (PIRMPs) are Management Plans that all holders of Environment Protection Licences (EPLs) are required to prepare in accordance with section 153A of the NSW *Protection of the Environment Operations Act 1997* (POEO Act).

The objectives of the PIRMP are to:

- Minimise the risk of a pollution incident occurring as a result of their licensed activities, as they would have identified risks and the actions they propose to take to minimise and manage those risks.
- Establish clear and effective notification, action and communication procedures to ensure the right people are notified, warned and quickly provided with updates and information they may need to act appropriately, including:
  - people who may need to be involved in incident responses – including staff at the premises, the NSW Environment Protection Authority (EPA), and other relevant authorities (such as Fire and Rescue NSW and MidCoast Council); and
  - industrial, commercial and residential neighbours and other members of the community.
- Properly train staff and detail up-to-date incident management information available to ensure the potential impact of a pollution incident is minimised.

Part 5.7A of the POEO Act requires all licence holders to prepare, keep, test and implement their PIRMP; with Chapter 4 of the General Regulation setting out the specific information a licence holder must include in their PIRMP.

The general requirements of the PIRMP are to:

- All licensees must prepare a PIRMP (section 153A).
- A PIRMP must be in the form required by the regulations and must include the information detailed in the POEO Act (section 153C) and the General Regulation (section 72 and section 73).
- Licensees must keep the PIRMP at the premises the environment protection licence relates to, or where the relevant activity takes place (in the case of trackable waste transporters and mobile plant) (section 153D of the POEO Act) and make certain parts of the PIRMP available on a publicly accessible website of the licensee, or alternatively provide a copy upon written request (section 74 of the General Regulation).
- Licensees must test their PIRMP in accordance with the regulations (section 153E of the POEO Act and section 75 of the General Regulation).
- Licensees must implement their PIRMP immediately if a pollution incident occurs that causes or threatens material harm to the environment (as defined in section 147 of the POEO Act) (section 153F of the POEO Act).

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## 2.2 Definitions

The POEO Act defines **pollution** as:

*“Pollution means – water pollution, air pollution, noise pollution, or land pollution.”*

The POEO Act defines a **pollution incident** as:

*“Pollution incident means an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise.”*

The POEO Act defines **material harm to the environment** as:

- “(a) harm to the environment is material if:*
- (i) It involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or*
  - (ii) It results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and*
- (b) loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.”*

**Notification** is required if a pollution incident causes or threatens to cause material harm to the environment; and even if the incident only occurs within the licence holder’s premises.

## 2.3 Availability of the PIRMP

A hard copy of this plan must be kept at the licensed premises and shall be made readily available on request by an authorised EPA officer and to any person who is responsible for implementing this plan.

Parts of the plan must be available either on a publicly accessible website, or by providing a copy of the plan to any person who makes a written request, in accordance with section 74 of the POEO (General) Regulation 2022. As such, a redacted soft copy of this will also be maintained on the Hunter Quarries’ website.

## 2.4 Key Contacts

If a pollution incident arises or is likely to arise from activities at the KEQ, the individual/s involved must promptly inform the Quarry Manager and the Environment & Development Manager. These primary contacts will then either initiate the response plan or delegate an authorised secondary contact listed in **Table 1** below to activate the plan.

The person responsible for activating the PIRMP will also hold responsibility for notifying the relevant authorities and managing the response and/or investigation to the pollution incident, this can also be delegated from a supervisor to an alternative person/s.

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**Table 1 Key Contacts to Implement the PIRMP.**

Contact	Role	Contact Details
<b>Primary Contacts</b>		
Darryn Bosch	Quarry Manager	
Scott Ellerton	Environment & Development Manager	
<b>Secondary Contacts</b>		
John Evans	Quarry Supervisor	
Steven Hackett	Environment Coordinator	
<b>Site Contacts</b>		
HQ Weighbridge	–	UHF – CH25 02 4050 0304
KEQ Weighbridge	–	UHF – CH15 02 4050 0304
<b>Alternative Contacts</b>		
Todd Kalajzich	General Manager	
Janelle Egginton	WHS Coordinator	

**Note:** Whilst personnel contact details are listed in the controlled version of the PIRMP maintained onsite, they do not appear in the version published to the Hunter Quarries’ website under provision of the Privacy and Personal Information Protection Act 1998.

## 3.0 Regulatory Requirements of the PIRMP

The requirements of the PIRMP as outlined by section 5.7A of the POEO Act and the POEO (General) Regulation 2022 are summarised by **Table 2**.

**Table 2** Summary of Detailed PIRMP Requirements of the General Regulation.

Clause Number	Legislative Requirements	Section Addressed
<b>section 5.7A of the POEO Act – Duty to Prepare and Implement PIRMP</b>		
153A	<b>Duty of licence holder to prepare pollution incident response management plan</b> <i>The holder of an environment protection licence must prepare a pollution incident response management plan that complies with this Part in relation to the activity to which the licence relates.</i>	This PIRMP
153B	<b>EPA may direct other persons to prepare pollution incident response management plan</b> <i>The EPA may, in accordance with the regulations, require the occupier of premises at which industry is carried out to prepare a pollution incident response management plan that complies with this Part in relation to activities at the premises.</i>	This PIRMP
153C	<b>Information to be included in plan</b> <i>A pollution incident response management plan must be in the form required by the regulations and must include the following—</i>	This PIRMP
	<i>a) the procedures to be followed by the holder of the relevant environment protection licence, or the occupier of the relevant premises, in notifying a pollution incident to—</i>	Section 4.0 and Section 8.3
	<i>i. the owners or occupiers of premises in the vicinity of the premises to which the environment protection licence or the direction under section 153B relates, and</i>	
	<i>ii. the local authority for the area in which the premises to which the environment protection licence or the direction under section 153B relates are located and any area affected, or potentially affected, by the pollution, and</i>	
	<i>iii. any persons or authorities required to be notified by Part 5.7,</i>	
<i>b) a detailed description of the action to be taken, immediately after a pollution incident, by the holder of the relevant environment protection licence, or the occupier of the relevant premises, to reduce or control any pollution,</i>	Section 8.2 and Appendix 1	
<i>c) the procedures to be followed for co-ordinating, with the authorities or persons that have been notified, any action taken in combating the pollution caused by the incident and, in particular, the persons through whom all communications are to be made,</i>	Section 8.3 and Section 8.4	
<i>d) any other matter required by the regulations.</i>	This PIRMP	
153D	<b>Keeping of plan</b> <i>A person who is required to prepare a pollution incident response management plan under this Part must ensure that it is kept at the premises to which the relevant environment protection licence relates, or where the relevant activity takes place, and is made available in accordance with the regulations.</i>	Section 2.3
153E	<b>Testing of plan</b> <i>A person who is required to prepare a pollution incident response management plan under this Part must ensure that it is tested in accordance with the regulations.</i>	Section 9.2

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Clause Number	Legislative Requirements	Section Addressed
153F	<b>Implementation of plan</b> <i>If a pollution incident occurs in the course of an activity so that material harm to the environment (within the meaning of section 147) is caused or threatened, the person carrying on the activity must immediately implement any pollution incident response management plan in relation to the activity required by this Part.</i>	This PIRMP
<b>section 72 of the POEO(G) Regulation – Additional matters to be included in PIRMP</b>		
72	<i>For the Act, section 153C(d), the following matters must be included in a PIRMP.</i>	This PIRMP
72 (a)	<i>A description of the hazards to human health or the environment associated with the activity to which the licence relates (the <b>relevant activity</b>),</i>	Section 5.0 and Appendix 1
72 (b)	<i>The likelihood of any such hazards occurring, including details of any conditions or events that could, or would, increase that likelihood,</i>	Section 5.0 and Appendix 1
72 (c)	<i>Details of the pre-emptive action to be taken to minimise or prevent any risk of harm to human health or the environment arising out of the relevant activity,</i>	Section 8.1
72 (d)	<i>An inventory of potential pollutants and the purpose on the premises or used in carrying out the relevant activity,</i>	Section 6.0
72 (e)	<i>The maximum quantity of any pollutant that is likely to be stored or held at particular locations, including underground tanks, at or on the premises to which the license relates,</i>	Section 6.0
72 (f)	<i>A description of the safety equipment or other devices that are used to minimise the risks to human health or the environment and to contain to control a pollution incident,</i>	Section 7.0 and Figure 4
72 (g)	<i>The names, positions and 24-hour contact details of those key individuals who:</i> <i>i. are responsible for activating the plan, and</i> <i>ii. are authorised to notify relevant authorities under the Act, section 148, and</i> <i>iii. are responsible for managing the response to a pollution incident,</i>	Section 2.4
72 (h)	<i>The contact details of each relevant authority referred to in the Act, section 148,</i>	Section 4.2
72 (i)	<i>Details of the mechanisms for providing early warnings and regular updates to the owners and occupiers of premises near the premises to which the licence relates or where the scheduled activity is carried on,</i>	Section 4.3
72 (j)	<i>The arrangements for minimising the risk of harm to persons who are on the premises or who are present where the scheduled activity is being carried on,</i>	Section 8.5
72 (k)	<i>A detailed map, or set of maps, showing the location of the premises to which the licence relates, the surrounding area likely to be affected by a pollution incident, the location of potential pollutants on the premises and the location of stormwater drains on the premises,</i>	Figure 5 and Section 8.2
72 (l)	<i>A detailed description of how an identified risk of harm to human health will be reduced, including, as a minimum, by early warnings, updates and the action to be taken during or immediately after a pollution incident to reduce the risk,</i>	Section 4.3 and Section 8.1
72 (m)	<i>The nature and objectives of a staff training program in relation to the PIRM plan,</i>	Section 9.1
72 (n)	<i>The dates on which the PIRM plan has been tested and the name of the person who carried out the test,</i>	Section 9.2
72 (o)	<i>The dates on which the PIRM plan is updated,</i>	Revision History
72 (p)	<i>The way in which the PIRM plan must be tested and maintained.</i>	Section 9.2

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## 4.0 Notification of Pollution Events

Part 5.7 of the POEO Act specifies notification requirements for pollution incidents. All employees and contractors are legally required to follow the notification requirements.

### 4.1 Notification to Internal Stakeholders

The employer, occupier of the premises or any person carrying out an activity which causes a pollution incident must immediately notify the Quarry Manager and the Environment & Development Manager. If the incident has caused or threatens to cause material harm, then the relevant authorities must also be notified immediately.

#### Roles & Responsibilities

The following roles and responsibilities for communicating a pollution incident once reported are summarised by **Table 3**.

**Table 3** *Roles and Responsibilities during a Pollution Incident.*

Role	Responsibility
Environment & Development Manager (or suitable delegate)	<ul style="list-style-type: none"> <li>When notified of a pollution incident, enact the PIRMP, including notifications to relevant authorities and external stakeholders.</li> <li>Record all relevant information regarding this incident.</li> <li>Complete follow-up PIRMP tests within one month of incident.</li> </ul>
Quarry Manager (or suitable delegate)	<ul style="list-style-type: none"> <li>Determine the extent of the pollution incident and contact the executive.</li> <li>Determine and implement all reasonably practicable measures to minimise the impact of the pollution incident where safe to do so.</li> </ul>
Staff / Contractors	<ul style="list-style-type: none"> <li>Immediately report any incidents to Quarry Supervisor after the person becomes aware of a pollution incident.</li> </ul>

### 4.2 Notification to Relevant Authorities

#### First Notification

If there is an immediate threat to human health or the environment, the ‘first notification’ to relevant authorities is warranted for contact and direction.

The ‘first notification’ is to be issued to emergency services, including Fire and Rescue, Police, Ambulance by calling 000.

#### Relevant Authorities Notification

In the case of a pollution incident that causes or threatens to cause material harm to the environment, authorities are to be advised of the incident in accordance with Part 5.7A of the POEO Act.

**Table 4** summarises the relevant authorities that are to be notified following a pollution incident.

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**Table 4 Relevant Authorities to Report Pollution Incidents.**

Relevant Authority	Contact Details	Status
NSW Environment Protection Authority	131 555	Statutory under POEO Act.
Fire & Rescue NSW	1300 729 579	
Safework NSW	131 050	
MidCoast Council	02 7955 7777	
NSW Planning	1300 420 596 NSW Major Projects Portal	If deemed necessary under the Project Approval (MP09_0175).
NSW Resource Regulator	1300 814 609	If deemed necessary under the NSW WHS (Mines & Petroleum Sites) Act 2013.

### **Information to be Reported**

In accordance with section 150 of the POEO Act the following information is to be provided:

1. Details of the incident:
  - a. the time, date, nature, duration, and location of the incident,
  - b. the location of the place where pollution is occurring or is likely to occur,
  - c. the nature, the estimated quantity or volume and the concentration of any pollutants involved, if known,
  - d. the circumstances in which the incident occurred (including the cause of the incident, if known),
  - e. the action taken or proposed to be taken to deal with the incident and any resulting pollution or threatened pollution, if known,
  - f. other information prescribed by the regulations.
2. Any information known to the person reporting the incident at the time of notification.
3. Any further information that became known to the person reporting the incident following the initial notification.

## **4.3 Notification to External Stakeholders**

In the event of an incident, communicating with the local community is an important element in managing the response to any incident. Notifications will be undertaken at the determination of the Environment & Development Manager. The following methodology is proposed to be utilised as required:

- **Early warnings:** Same day SMS Text Message Notifications to identified landholders that may be affected by the incident.
- **Updates:** Continued regular SMS Text Message Notifications to identified landholders if the incident continues to occur over multiple days.
- **Reporting:** Formal reporting, such as letter drops, if required to all surrounding landholders located within 2 km of the quarry site following completion of the incident in accordance with the KEQ's Project Approval (MP09\_0175).

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The information provided to the community will be relevant to the incident, and may include the following:

- The type of incident that occurred;
- Potential impacts to local landholders and the community;
- KEQ site contact details; and
- Advice or recommendations based on the incident type or scale.

In the event that the incident is being coordinated by emergency services, communications would be under the control of those services. KEQPL would assist the governing authorities as directed and consider the following options for providing warnings and updates to the community on pollution incidents:

- Communication with the community;
- Public notifications / notices / meetings;
- Direct phone contact with any immediate neighbours directly impacted by the incident; and/or
- Letterbox drops of incident information and site contacts.

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## 5.0 Description and Assessment of Hazards.

To minimise risk to human health or the environment, KEQPL has prepared a risk assessment which outlines the identified hazards on site. The key potential major hazards at the site may include:

- Emissions (such as blast plume or fume) resulting in poor air quality;
- Uncontrolled discharges of sediment-laden water after major storm events; and
- Spills (such as hazardous goods or hydrocarbons) resulting in land, surface water and/or groundwater contamination.

### 5.1 Risk Assessment

A risk assessment matrix was developed to consider risks against a consistent framework within the Hunter Quarries business group. **Table 5** outlines considerations for potential pollution incident consequences and **Table 6** summarises the considered likelihood of occurrences.

An Environmental Risk Assessment was subsequently undertaken to assess the impact of potential hazards that could cause pollution incidents and the likelihood of the pollution event occurring. The Risk Assessment is summarised below in **Appendix 1**.

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**Table 5 Risk Assessment Consequence Framework.**

Rating	Health & Safety	Environment	Image, Reputation & Community	Legal & Compliance	Financial Impact
<b>5 Catastrophic</b>	<ul style="list-style-type: none"> <li>Multiple fatalities (3 or more fatalities in a single incident).</li> <li>Multiple cases (5 or more) of Permanent Damage Injuries or Diseases that result in permanent disabilities in a single incident.</li> </ul>	<ul style="list-style-type: none"> <li>Unconfined and widespread.</li> <li>Environmental damage or effect (permanent; &gt;10 years).</li> <li>Requires major remediation.</li> </ul>	<ul style="list-style-type: none"> <li>Complete loss of trust or social unrest likely leading to closure.</li> <li>Loss of multiple major customers or large proportion of sales contracts.</li> <li>Security incident resulting in multiple fatalities or major equipment damage.</li> <li>Formal expression of significant dissatisfaction by government.</li> </ul>	<ul style="list-style-type: none"> <li>Major litigation / prosecution at corporate level.</li> </ul>	<ul style="list-style-type: none"> <li>Environment repair cost &gt;\$100k.</li> <li>Plant / Property damage &gt;\$500k.</li> </ul>
<b>4 Major</b>	<ul style="list-style-type: none"> <li>Single incident resulting in human fatality.</li> <li>Permanent Damage Injury or Disease that results in a permanent disability - less than 5 cases in a single incident.</li> </ul>	<ul style="list-style-type: none"> <li>Off-site degradation which has persistent but reversible impacts.</li> <li>Long-term (1 to 2) impact.</li> <li>Requires significant remediation.</li> <li>Prosecution potential high under environmental laws.</li> </ul>	<ul style="list-style-type: none"> <li>Security / stakeholder incident resulting in single loss of life or equipment damage.</li> <li>Topic of broad societal concern and criticism.</li> <li>Negative national media coverage.</li> <li>Investigation from government.</li> <li>Community discontent and impact on viability of business.</li> <li>Loss of major customer.</li> </ul>	<ul style="list-style-type: none"> <li>Major litigation / prosecution at Division level.</li> <li>Breach of external requirement (license, legislation, regulation, contract etc.) with high potential for prosecution and/or high impact.</li> </ul>	<ul style="list-style-type: none"> <li>Environment repair cost between \$50k and \$100k</li> <li>Plant / Property damage between \$100k and \$500k.</li> </ul>
<b>3 Moderate</b>	<ul style="list-style-type: none"> <li>Lost Time Injury (LTI).</li> <li>Lost Time Disease (LTD).</li> <li>Permanent Disabling Injury (PDI).</li> <li>Permanent Disabling Disease (PDD).</li> <li>Single incident that results in multiple medical treatments.</li> </ul>	<ul style="list-style-type: none"> <li>On-site/Off-site degradation which has reversible impacts.</li> <li>Short-term impact (&lt;6 months) that requires moderate remediation.</li> </ul>	<ul style="list-style-type: none"> <li>Local adverse media attention.</li> <li>Loss of reputation or ability to secure work in local area, complaints that result in changes to external requirements.</li> </ul>	<ul style="list-style-type: none"> <li>Non-compliance with external requirement with moderate potential for prosecution and penalty or fine.</li> </ul>	<ul style="list-style-type: none"> <li><b>PIRMP ACTIVATES</b></li> <li>Environment repair cost between \$10k and \$50k.</li> <li>Plant / Property damage between \$20k and \$100k.</li> </ul>
<b>2 Minor</b>	<ul style="list-style-type: none"> <li>Medical Treatment Injury (MTI).</li> <li>Medical Treatment Disease (MTD).</li> <li>Restricted Work Injury (RWI).</li> <li>Restricted Work Disease (RWD).</li> </ul>	<ul style="list-style-type: none"> <li>Near source and confined with work area.</li> <li>Temporary or may require minor remediation (&lt;1 week).</li> </ul>	<ul style="list-style-type: none"> <li>Multiple community complaints or complaints that require changes to internal operating procedures.</li> </ul>	<ul style="list-style-type: none"> <li>Repeated non-compliance with internal procedure.</li> <li>Non-compliance with external requirement with low potential impact</li> </ul>	<ul style="list-style-type: none"> <li>Environment repair cost between \$5k and \$10k.</li> </ul>
<b>1 Negligible</b>	<ul style="list-style-type: none"> <li>First Aid Injury (FAI) or illness (not considered disease or disorder).</li> </ul>	<ul style="list-style-type: none"> <li>Near source and confined.</li> <li>No lasting environmental damage or effect.</li> <li>Requires minor or no remediation.</li> </ul>	<ul style="list-style-type: none"> <li>Community complaint resolved with no changes to existing operating procedures.</li> </ul>	<ul style="list-style-type: none"> <li>Internal regulation breaches without fine or penalty.</li> </ul>	<ul style="list-style-type: none"> <li>Environment repair cost &lt;\$5k.</li> <li>Plant / Property damage &lt;\$5k.</li> </ul>

**Table 6 Risk Assessment Likelihood Framework.**

Rating	E – Rare	D – Unlikely	C – Possible	B – Likely	A – Almost Certain
PROJECT LIFETIME	Unlikely to occur during a lifetime	Could occur about once during a lifetime	Could occur more than once during a lifetime	May occur about once per year	May occur several times per year
5 Catastrophic	15 (M)	19 (H)	22 (H)	24 (H)	25 (H)
4 Major	10 (M)	14 (M)	18 (H)	21 (H)	23 (H)
3 Moderate	6 (L)	9 (M)	13 (M)	17 (H)	20 (H)
2 Minor	3 (L)	5 (L)	8 (M)	12 (M)	16 (M)
1 Negligible	1 (L)	2 (L)	4 (L)	7 (M)	11 (M)

## 6.0 Inventory of Potential Pollutants

A range of chemicals and substances are utilised and stored onsite for purposes which include water treatment, cleaning, fuel, and lubricants for machinery maintenance. An inventory of pollutants is provided below in **Table 7**.

The site layout and locations of potential pollutants and safety equipment are illustrated by **Figure 4 to 6**, consisting of the weighbridge & stockpile area, the plant & processing area, and the extraction area, respectively.

**Table 7 Detailed Inventory of Potential Pollutants.**

Substance	Location	Volume or Quantity
North Fork Tea Tree Hand Cleaner	Storeroom & Amenities	3 Bottles
CRC Electrical Contact Cleaner	HQ Workshop, KEQ Control Room, Container & fitters Utes	6 Cans
Armor All Protectant Car Wash	Storeroom & all vehicles	10 Bottles
Sikaflex 221 Adhesive	HQ Workshop, KEQ Control Room, Container & fitters Utes	6 Tubes
Aerostart Engine Starter	HQ Workshop, KEQ Control Room, Container & fitters Utes	2 Cans
TW20 Truck Wash	HQ Workshop KEQ Container	20 L
WD-40	HQ Workshop, KEQ Control Room, Container & fitters Utes	10 Cans
Ajax Spray n Wipe	Storeroom & Amenities	3 Bottles
Enduron Low SAPS 10w-40 Engine Oil	HQ Workshop KEQ Container	20 L
Brake and Clutch Fluid	HQ Workshop, KEQ Control Room, Container & fitters Utes	20 L
Diesel	HQ Fuel Tank - 28,000 KEQ Tank 1 - 52,000 KEQ Tank 2 - 49,000 KEQ Genset - 4,000	133,000 L
Argoshield Light	HQ Workshop, KEQ Container & Fitter Utes	6 Cylinders
Battery Acid	All Machines, Vehicles & Mobile Plant	1 L
Paint Marker Pen	HQ Workshop, KEQ Control Room, Container & fitters Utes	1 Gram
Ad Blue Fuel Application	KEQ Oil Container	20 L
Metsun 600 Herbicide	Contractors Utes	500 Grams
Blitzem Wasp Killer & Nest Destroyer	Storeroom Offices Workshop	350 Grams
Artline White Board Cleaner	Offices Weighbridge Workshop	1 L
Mortein Fly Spray	Offices Weighbridge Workshop	8 cans
Sika Boom Expanding Foam	KEQ Control Room	1 can
Windex Glass Cleaner	Storeroom & all vehicles	6 Bottles
Spot Marking paint- White	HQ Workshop, KEQ Control Room, Container & fitters Utes	6 Cans
Air Wick Air Freshener	Storeroom & Amenities	16 cans
Selleys Liquid Nails	HQ Workshop, KEQ Control Room, Container & fitters Utes	4 Tubes
Unleaded Petrol	HQ Workshop	5 L

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Substance	Location	Volume or Quantity
Septone Citra Scrub Hand Cleaner	HQ Workshop & KEQ Control Room	20 L
Septone Protecra Gold	Storeroom & Amenities	5 L
Quarry Products	Quarry Floor Stockpiles	NO
Quarry Products - Stabilized	Quarry Floor Stockpiles	NO
Acetylene	Workshop & Fitters Utes	4 Bottles
Metholayted Spirits	All Areas	80 L
Norfolk Hand Cleaner	Storeroom & Amenities	12 bottles
Carburettor Cleaner	HQ Workshop, KEQ Control Room, Container & fitters Utes	1 Can
Maxiflox	KEQ Dam Container	1000 kg
Mineral Turpentine	HQ Workshop	2 L
Anti-seize	HQ Workshop, KEQ Control Room, Container & fitters Utes	3 Cans
Silastic	HQ Workshop, KEQ Control Room, Container & fitters Utes	1 Box
PVC Pipe Cement	HQ Workshop, KEQ Control Room, Container & fitters Utes	500 mL
Aluclean	Workshop Locker	5 L
Zexa Sure Shield Hand Sanitiser	All Areas	5 L
Megapoxy Part A & B	KEQ Crushing	40 x Buckets
Areoguard	Storeroom, Offices, Workshop	12 x cans
Oxygen, Compressed	HQ Workshop, KEQ Container & Fitters Utes	4 Bottles
Volvo Super Hyrdraulic Oil	HQ Workshop & KEQ Container	20 L
Coolant VCS Ready Mixed	HQ Workshop & KEQ Container	5 L
Volvo Automatic Transmission Fluid AT102	HQ Workshop & KEQ Container	20 L
Volvo Ultra Diesel Engine Oil VDS-3 SAE 15W40	HQ Workshop & KEQ Container	20 L
Chemtech Brake Clean	HQ Workshop, KEQ Control Room, Container & fitters Utes	6 Cans
Feurst Stimix S200 (Stickey Mix)	Workshop (Rear) Red Storage Container	2400 cc
Grazon Extra	Contractors Utes	
Hotshot Herbicide	Contractors Utes	5 L
Roundup Herbicide	Weighbridge Store	5 L
Duck Hospital Grade Disinfectant	Storeroom & Amenities	8 bottles
Galmet Duragal Metal Protection	Workshop	4 x 350g
Polo Citrus	Main Plant	1000 L
Pro Diesel 15W-40 CJ4 (Atlantic Oil)	HQ Workshop & KEQ Container	1000 L
Industrial Gear Oil 150 (Atlantic Oil)	HQ Workshop & KEQ Container	1000 L
Hy - Lube ISO 68 (Atlantic Oil)	HQ Workshop & KEQ Container	1000 L
Multiplex - Extreme EP 2 (Blue) (Atlantic Oil)	HQ Workshop & KEQ Container	3 x 20 kg Drums 6 x 24 Cartons
Calcium Chloride Dihydrate	Shed	Pod
Dulux Metalshield High Build ZP Primer	KEQ Container	20 L
Jotacote QD Enamel Paint	KEQ Container	20 L
Dulux Metalshield QD Enamel paint	KEQ Container	20 L

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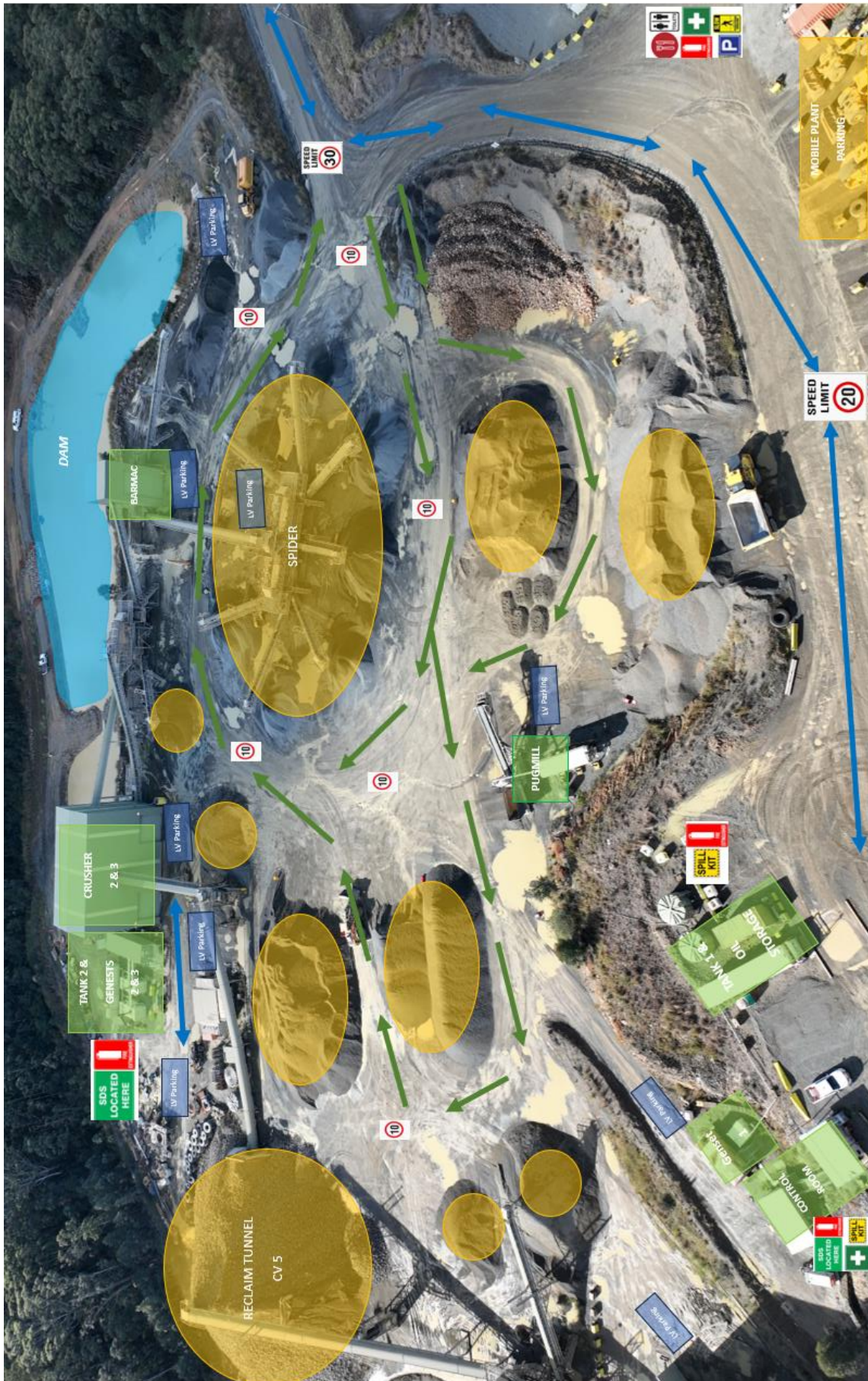
Substance	Location	Volume or Quantity
Dulux Metalshield Brush Thinner	KEQ Container	20 L
Barmac Out of Bounds Insecticide	KEQ Container	1 L
Germ Buster Hand Sanitiser	KEQ & HQ	200 Bottles
Pro Bloc Sunscreen	All Areas	50 Bottles
ACTA 1080 Concentrate	KEQ & HQ	Baits
Sodium Bisulphate	KEQ & HQ	5 Bags
Norfolk Toilet & Urinal Cleaner	Storeroom & Amenities	12 Bottles
Norfolk Urinal Blocks	Storeroom & Amenities	4 kg
Weedmaster Duo	KEQ Site Shed	20 L
LPG Gas	HQ Workshop & KEQ Site Shed	4 bottles
Accent Musk Disinfectant	All Areas	5 L
Cement/Fly Ash/Lime Blends, Slag/Lime Blends, Slag/Lime/Fly ash Blends	KEQ Crushing Plant, Pugmill & Container	20 Ton
Hydrochloric Acid	KEQ Dam Shed	20 L

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**Figure 4** Location of Potential Pollutants and Safety Equipment at the Weighbridge & Stockpile Area.

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**Figure 5** Location of Potential Pollutants and Safety Equipment at the Plant & Processing Area.

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**Figure 6** Location of Potential Pollutants and Safety Equipment in the Extraction Area.

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## 7.0 Safety Equipment

Chemicals and fuels are stored within purpose built and bunded areas (e.g. diesel above ground storage, oil storage areas). Spill kits are located adjacent to chemical or oil storage area. These spill kits are inspected regularly and make replacements as required which are reported on.

Locations of Personal Protective Equipment (PPE) and containment equipment are available if required for all employees. **Table 8** outlines the safety equipment kept on site in accordance with clause 72(f) of the POEO(G) Regulation.

**Table 8** *Detailed Inventory of Safety Equipment.*

Product Type	Location/s of where equipment is stored	Total Quantity	Calibrations/Maintenance Requirements
Fire Extinguisher	Weighbridge and Plant Areas	Numerous	Inspected Regularly
Spill Kit	Weighbridge and Plant Areas	Numerous	
PPE (PVC Gloves, Safety Glasses)	Issued to all staff, Weighbridge and Plant Areas.	4	
MSDS	Weighbridge and Plant Areas.	-	
First Aid	Light Vehicles, Weighbridge and Plant Areas.	Numerous	
Safety Signage	Various locations	Numerous	

## 8.0 Actions to be Taken

### 8.1 Pre-Emptive Actions

This section details actions taken to minimise or prevent risk of harm to human health or the environment from the activities undertaken at the KEQ site.

- Bushfire – Maintain fire breaks, hazard reduction burns as required.
- Dust – Dust levels are controlled by keeping road surfaces and stockpiles moist during wind events.
- Hydrocarbon Leaks – All refuelling will occur with designated areas and all hydrocarbons will be stored in 110% bunds/berms.
- Chemical Spills – Spill kits on sit to effectively minimise risk of emissions leaving site.
- Site environmental and safety management plans;
- Regular inspections and maintenance;
- Environmental monitoring;
- Correct storage and waste management; and
- Staff training and awareness.

The site makes all attempts to prevent pollution incidents. In a situation where a pollution incident is imminent and may potentially cause detrimental impacts to human health or the environment, the site will contact the necessary stakeholders to provide as much early warning as possible.

### 8.2 During or Immediately After a Pollution Incident

Upon identification of a pollution incident, initial incident response includes notification of a competent person who can contain the pollution event, if safe to do so, in accordance with internal reporting procedures.

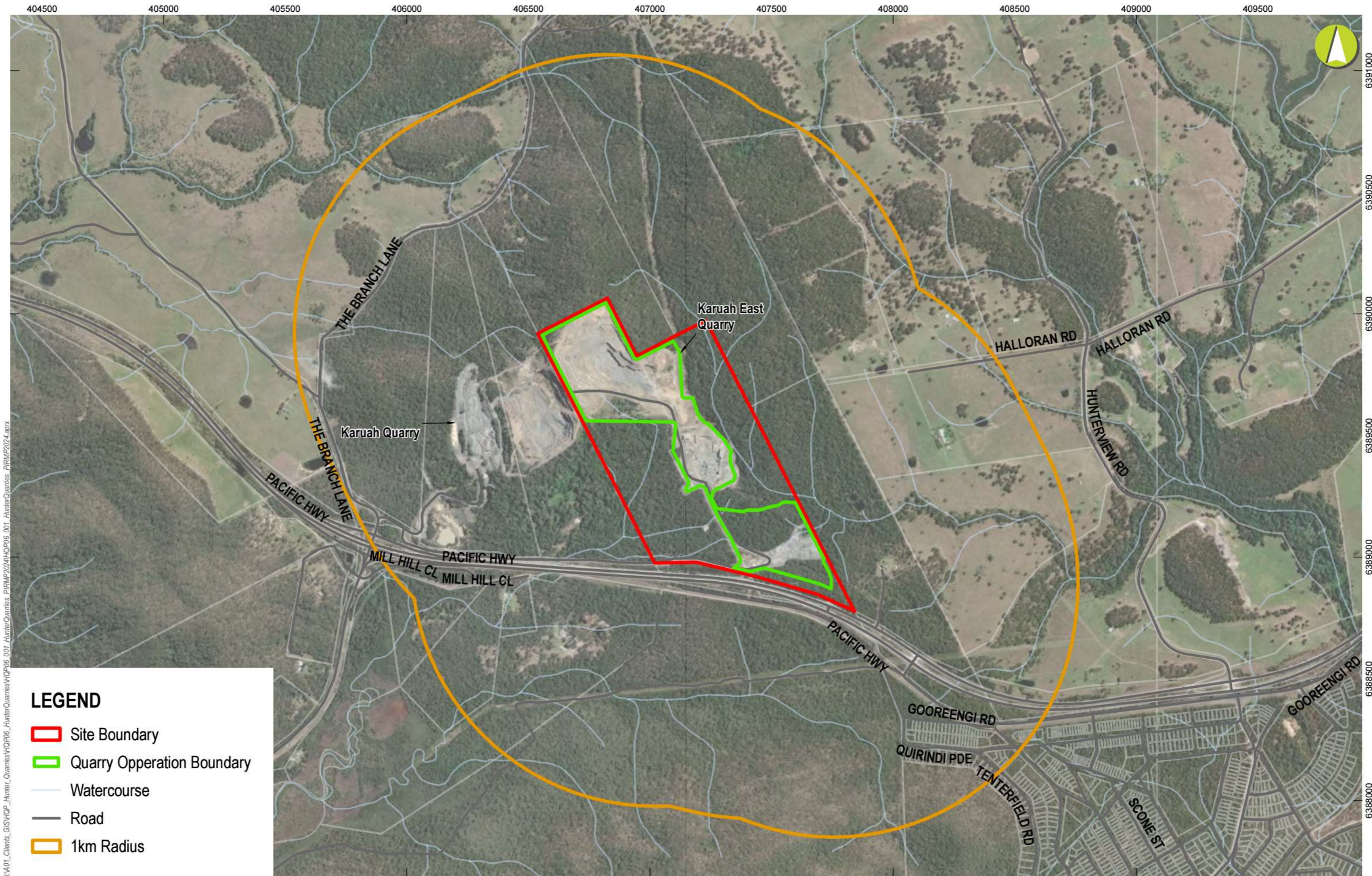
The ‘competent’ person will then implement the relevant controls as outlined in the Environmental Risk Assessment provided in **Appendix 1**. If an evacuation is required, this shall be completed in accordance with site procedures.

If safe to do so, environmental controls for the containment of a pollution incident will be implemented, which may include:

- Emergency spill kits;
- Mobile water trucks;
- Application of flocculate and increased erosion and sediment controls; or
- Mobilisation of available earthmoving equipment.

**Figure 7** illustrates the likely distribution of potential pollution.

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GDA 1994 MGA Zone 56  
11/03/2025

Karuah East Quarry

Pollution Incident Response Management Plan  
**FIGURE 7 - Likely Distribution of Potential Pollution Plan**

## 8.3 Immediate Notification of a Pollution Incident

Section 148 of the POEO Act requires holders of an EPL to report pollution incidents “immediately” instead of “as soon as practicable.” This means that licensees must report pollution incidents without delay to the relevant authorities in accordance with the process outlined by **Section 4.3** of this **PIRMP**.

## 8.4 Post-Incident Actions and Clean-Up

In the event of a pollution incident, a detailed incident investigation will occur, and the findings of this will be sent to the EPA (and other relevant agencies if deemed relevant) within 7x days in the form of an Incident Report.

If KEQPL was notified of the pollution incident by a member of the public, then the complaint will be also logged in accordance with internal community complaints procedures.

If necessary, the following will occur post pollution incident:

- Hire specialised contractors for clean-up operations, as deemed necessary.
- Coordination with all relevant personnel and authorities.
- Maintain detailed records of the incident, including the nature of the spill, response actions taken, and any environmental impact.

However, for significant or catastrophic incidents, consent (or permission) of key relevant agencies will be sought prior to disturbing the scene unless an immediate emergency response is required.

## 8.5 Minimisation of Harm to Persons on the Premises

General information relating to pollution incidents and emergency response shall be included in site inductions. All staff and contractors must complete this induction prior to undertaking any onsite operations.

If a pollution incident requires the evacuation of the site, actions will be completed in accordance with the site Evacuation Procedure. All staff are informed on the location of muster point through site inductions, signage, and ongoing training. All records of staff inductions are to be maintained, updated as required and available upon request.

KEQPL is committed to minimising the harm in the event of a pollution incident. Key measures to minimise harm to persons on the premises include (but are not limited to):

- Personal Protective Equipment (PPE).
- Conducting risk assessments when appropriate.
- Immediate response strategy including emergency assemblage points, relevant contact details, stop work instructions and evacuation strategies.
- Employee pollution incident training and procedures.
- Environmental and employee health monitoring.
- Reduction of pollutants on site.

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- Regular assessment of potential pollutants on site (location, amount, potential risk, mitigation measures).
- Establishing exclusion zones / perimeters to limit exposure of employees to pollutants.
- Advise relevant regulatory authorities if spill is considered to be significant or threatening material harm and adhere to any instructions issued.
- Where possible, contain spillage in designated containers/areas.
- Remove contaminated soil and or/absorption material to an approved disposal site as advised by the EPA or Council.
- Regular site inspections.

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## 9.0 Training, Testing and Review

### 9.1 Training and Awareness

Staff will be trained and inducted on the PIRMP prior to undertaking any operations on site and will include potential scenarios that may require implementation of the plan. Records of inductions will be kept on site, and staff will undertake yearly training to ensure they remain up to date with procedures.

### 9.2 Testing and Periodic Review

The PIRMP will be tested at least once annually to ensure the information included in the plan is accurate and up to date, and that each plan is capable of being implemented in a workable and effective manner. The testing of the PIRMP will involve a desktop exercise or scenario, and practical exercises or drills. The testing will cover all components of the PIRMP, including the effectiveness of training.

The PIRMP will be tested and reviewed within one month from the date of any pollution incident that triggers this PIRMP. The review will also consist of assessment of any additional hazards and control measures.

Any updates to the PIRMP will be detailed within the **Revision History** section of this document.

A summary of PIRMP testing is provided by **Table 9**.

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**Table 9 Summary of PIRMP Testing.**

Date	Name & Position	Test Type	Key Findings
09/01/2017	Tim Grugeon (Environment Officer)	Desktop	No changes required.
29/03/2018	Tim Grugeon (Environment Officer)	Desktop	No changes required.
15/02/2019	Tim Grugeon (Environment Officer)	Desktop	No changes required.
10/02/2020	Joel Fleming (Environment Officer) Greg Dressler (Quarry Manager)	Desktop	No changes required.
12/03/2021	Joel Fleming (Environment Officer) Stephanie Blackwood (WHS Coordinator)	Desktop	No changes required.
19/10/2021	Joel Fleming (E&D Manager) Isaac Daley (Environment Officer)	Desktop	No changes required.
06/07/2022	Joel Fleming (E&D Manager) Isaac Daley (Environment Officer)	Desktop	No changes required.
03/07/2023	Scott Ellerton (E&D Manager)	Desktop Scenario	Comprehensive review of the PIRMP required in accordance with the EPA's 2022 PIRMP Guideline.
03/05/2024	Scott Ellerton (E&D Manager)	Desktop Scenario	Comprehensive review of the PIRMP required in accordance with the updates of the sites Environmental Management Plans.
12/02/2025	Scott Ellerton (E&D Manager)	Incident Review	No material changes required.
05/06/2025	Scott Ellerton (E&D Manager)	Incident Review	No material changes required.
17/06/2025	Scott Ellerton (E&D Manager) Mia Wilson (Environment Coordinator)	Desktop Scenario	No material changes required.
03/06/2026	Scott Ellerton (E&D Manager) Steven Hackett (Environment Coordinator)	Incident Review	General currency update to be completed in accordance with desktop scenario planned for 10 June 2026.
10/06/2026	Scott Ellerton (E&D Manager) Steven Hackett (Environment Coordinator)	Desktop Scenario	Comprehensive review of the PIRMP required in accordance with the EPA's licensing reforms. Other updates required for personnel changes and Relevant Authority contacts.

## 10.0 References

### EPA Guideline

- NSW Environment Protection Authority. (2022). *Guideline: Pollution Incident Response Management Plans*. State of NSW. Available at: [www.epa.nsw.gov.au](http://www.epa.nsw.gov.au)

### Statutory Approvals

- Project Approval, MP09\_0175
- Environment Protection Licence, EPL 20611

### Environmental Management Plans

- Environmental Management Strategy, ENV-EMP-KEQ001
- Air Quality Management Plan, ENV-EMP-KEQ002
- Blast Management Plan, ENV-EMP-KEQ005
- Noise Management Plan, ENV-EMP-KEQ008
- Transport Management Plan, ENV-EMP-KEQ010
- Water Management Plan, ENV-EMP-KEQ012

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## Appendix 1: Environmental Risk Assessment

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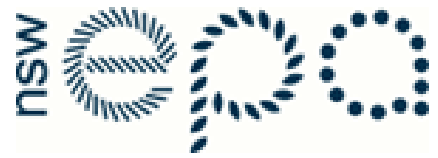
**Table 10 Environmental Risk Assessment.**

Risk Ref. No.	Risk Category	Relevant Sites	Potential Hazard	Relevance to Project	Existing Controls	Risk Type	Risk Control Effectiveness	Expected Risk Consequence	Risk Likelihood	Current Risk Rating
1	Surface Water	All Sites	Uncontrolled discharge due to heavy rain causing erosion and sedimentation and/or water quality impacts offsite. Within both the construction and operational phase of the operation.	Sediment dams discharge to creeks flowing into Port Stephens.	<ol style="list-style-type: none"> <li>1. Erosion and sediment control structures (main dam).</li> <li>2. Surface water monitoring as required</li> <li>3. Inspections.</li> <li>4. Ability to pump water</li> <li>5. Large water usage at site for processing and operations.</li> </ol>	Environment	Satisfactory	2 - Minor	C - Possible	<b>8 (M)</b>
2	Surface Water	All Sites	Unexpected failure of dams at site causing offsite discharge and PIRMP incident. Impacts to human health and the environment.	Dams are at site.	<ol style="list-style-type: none"> <li>1. Dams constructed to Blue Book.</li> <li>2. Engineering review of water management structures.</li> <li>3. Quarterly geotechnical engineering inspections.</li> </ol>	Health & Safety	Satisfactory	3 - Moderate	D - Unlikely	<b>9 (M)</b>
3	Surface Water & Hydrocarbons	All Sites (TGQ once operational)	Contamination of surface water by hydrocarbons causing impact to human health or environment.	Relevant as fuel storage tanks at site. There are other sources of hydrocarbons in the workshop.	<ol style="list-style-type: none"> <li>1. Surface water monitoring as required in Water Management Plan (including oil and grease)</li> <li>2. Inspections</li> <li>3. Ensure storage, handling and transport of dangerous goods are conducted in accordance with relevant Australian Standard</li> <li>4. Identify classify, quantify &amp; appropriately store hazardous waste</li> <li>5. Implement oil and fuel spill controls</li> <li>6. Ensure adequate spill kits are available on site including adequate training for effective use</li> <li>7. Appropriate location of hazardous materials storage areas to prevent off-site discharges</li> <li>8. Hydrocarbon washdown bay and collection sump</li> <li>9. Collection through licensed contractors</li> </ol>	Financial	Satisfactory	3 - Moderate	D - Unlikely	<b>9 (M)</b>
4	Groundwater & Hydrocarbons	All Sites	Contamination of groundwater by hydrocarbons causing impact to human health or environment.			Financial	Satisfactory	3 - Moderate	E - Rare	<b>6 (L)</b>
5	Land contamination	All Sites	Spills of hydrocarbons causing impacts to the land (i.e. contaminated soils).	Relevant as fuel storage tanks at site. There are other sources of hydrocarbons in the workshop.	<ol style="list-style-type: none"> <li>1. Fuels stored according to HQPL bunding requirements.</li> <li>2. Measures in place to ensure spills do not leave site approved development footprint i.e. diverting flow away from footprint</li> <li>3. Bunding subject to regular inspection and maintenance</li> <li>4. Hydrocarbon washdown bay and collection sump</li> <li>5. Collection through licensed contractors</li> <li>6. Spill kits available</li> </ol>	Financial	Satisfactory	2 - Minor	C - Possible	<b>8 (M)</b>
6	Land contamination	All Sites	Spill during delivery/fuelling process to mobile equipment and tanks.			Financial	Satisfactory	3 - Moderate	C - Possible	<b>13 (M)</b>

Risk Ref. No.	Risk Category	Relevant Sites	Potential Hazard	Relevance to Project	Existing Controls	Risk Type	Risk Control Effectiveness	Expected Risk Consequence	Risk Likelihood	Current Risk Rating
7	Dust	All Sites	Dust emissions from site causing impact to human health.	Relevant as dust could still be produced at the site during operations. Note, this risk does not relate to the above criteria, it relates to the triggered of a PIRMP incident.	<ol style="list-style-type: none"> <li>1. Complete monitoring &amp; assess results/ program</li> <li>2. Water carts/spraying for dust suppression</li> <li>3. Minimise disturbed areas</li> <li>4. Stop dust generating activities as necessary</li> <li>5. Restrict works during periods of high wind</li> <li>6. Dust minimisation training</li> <li>7. Maintenance of dust control equipment</li> <li>8. Complaints hotline</li> <li>9. Communicate construction activities to neighbours plus potential for dust</li> </ol>	Health & Safety	Satisfactory	2 - Minor	D - Unlikely	5 (L)
8	Blasting	All Sites	Release of dry powder and emissions from blasting events i.e.. fumes.	Blasting occurring as part of operations	<ol style="list-style-type: none"> <li>1. Blast Management Plan implementation</li> <li>2. Detailed design &amp; predictive modelling for each blast</li> <li>3. Monitoring of each blast with feedback to model, including fume inspections.</li> <li>4. Establish blast monitoring reference locations</li> <li>5. Notify sensitive receivers in accordance with site blasting register</li> <li>6. Establish &amp; advertise blasting hotline</li> <li>7. Drill accuracy is monitored via bore tracking procedures</li> <li>8. Establish site blasting procedures &amp; train personnel</li> <li>9. Clear site to safe areas prior to blasts</li> <li>10. Clear off-site areas prior to blasts</li> </ol>	Health & Safety	Satisfactory	2 - Minor	E - Rare	3 (L)
9	Blasting	All Sites	Vibration/air blast damage to off-site structures (i.e. nearby residents).			Image, Reputation & Community	Satisfactory	2 - Minor	D - Unlikely	5 (L)
10	Ecology	All Sites	Damage to flora or fauna (i.e. Clearing outside approved disturbance boundary, which triggers a PIRMP incident due to damage and possible habitat destruction).	Biodiversity offset areas are under KHRQ Development Consent and KEQ Project Approval.	<ol style="list-style-type: none"> <li>1. Signage as per KHRQ Flora &amp; Fauna Management Plan and KEQ Landscape &amp; Rehabilitation Management Plan.</li> <li>2. Monitor &amp; report</li> <li>3. Suitable training regarding flora protection</li> <li>4. Implement bushfire hazard reduction tasks</li> <li>5. Removal of feral animals from sensitive areas</li> <li>6. Noxious weed control in sensitive areas</li> <li>7. As per BioMP Offset MP for KEQ</li> <li>8. As per Flora and Fauna MP for KQ</li> <li>9. Fencing, flagging and marking controls</li> </ol>	Environment	Satisfactory	3 - Moderate	C - Possible	13 (M)
11	Natural Disasters	All Sites	Events on site including bushfires, or major storms can exacerbate risks, potentially leading to the spread of pollutants from the site.	Events could occur on-site that are not covered in the water controls	<ol style="list-style-type: none"> <li>1. Management plans i.e., Bushfire Management Plan.</li> <li>2. Bushfire tracks upkeep on site for access</li> <li>3. Emergency Response Equipment on site - Mapped and distributed to staff</li> <li>4. Emergency Response Infrastructure</li> </ol>	Environment	Satisfactory	2 - Minor	E - Rare	3 (L)

## Appendix 2: EPL 20611 (09 June 2026)

Document Number	Version Number	Version Date	Revision Date	Document Owner	Page
ENV-EMP-KEQ009	Version 5	19/06/2026	19/06/2027	E&D Manager	37 of 64

**Environment Protection Licence****Licence Details**

Number:	20611
Anniversary Date:	26-August

**Licensee**

KARUAH EAST QUARRY PTY LIMITED

PO BOX 3284

THORNTON NSW 2322

**Premises**

KARUAH EAST QUARRY

Pacific Highway

KARUAH NSW 2324

<b><u>Scheduled Activity (Act)</u></b>	<b><u>Licensing Fee Category (Regulation)</u></b>	<b><u>Scale</u></b>
Extractive activities	Other extractive activities	> 500000 - 2000000 T annually extracted or processed
Crushing, grinding or separating	Crushing, grinding or separating	> 500000 - 2000000 T annual processing capacity

# **Environment Protection Licence**



## **Contact Us**

NSW EPA  
6 Parramatta Square  
10 Darcy Street  
PARRAMATTA NSW 2150  
Phone: 131 555  
Email: [info@epa.nsw.gov.au](mailto:info@epa.nsw.gov.au)  
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PARRAMATTA NSW 2124

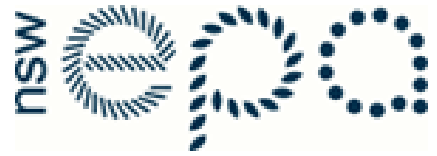
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## Information about this licence

### Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

### Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 (“the Act”) and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

### Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

### Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

### Licence review

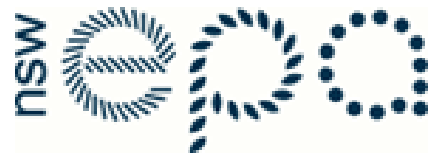
The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

### Fees and information to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

## **Environment Protection Licence**



Usually, the licence fee period is the same as the reporting period.

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees.

A licence subject to load-based licensing (LBL) requires an Annual Return to be submitted to the EPA, comprising a Statement of Compliance for Load Based Fee Calculation for each assessable pollutant required by the licence. The Annual Return must be submitted by the “due date”, as defined in the dictionary at the end of the licence. Refer to the Annual Return reporting requirements under Section 6 “Reporting Conditions”.

### **Transfer of licence**

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

### **Public register and access to monitoring data**

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

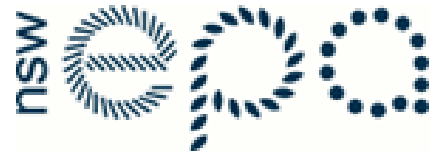
- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

#### **This licence is issued to:**

<b><u>Licensee</u></b>
KARUAH EAST QUARRY PTY LIMITED
PO BOX 3284
THORNTON NSW 2322

subject to the conditions which follow.



# 1 Administrative Conditions

## A1 What the licence authorises and regulates

**A1.1** This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their Scheduled Activity (Act) classification, Licensing Fee Category (Regulation) classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

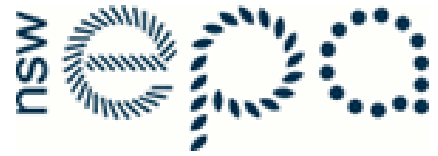
<b><u>Scheduled Activity (Act)</u></b>	<b><u>Licensing Fee Category (Regulation)</u></b>	<b><u>Scale</u></b>
Extractive activities	Other extractive activities	> 500000 - 2000000 T annually extracted or processed
Crushing, grinding or separating	Crushing, grinding or separating	> 500000 - 2000000 T annual processing capacity

**A1.2** Notwithstanding the condition above, the scale of the land-based extractive activity and / or scale of crushing, grinding and separating authorised under this licence must not exceed 1.5 million tonnes of quarry products per annum, being the amount equivalent to the extraction limit approved by the project approval MP09\_0175 granted under the *Environmental Planning and Assessment Act 1979* for the premises specified in A2.

## A2 Premises or plant to which this licence applies

**A2.1** The licence applies to the following premises:

<b><u>Premises Details</u></b>
<b>KARUAH EAST QUARRY</b>
<b>Pacific Highway</b>
<b>KARUAH NSW 2324</b>
<b>LOT 12//DP1024564, LOT 13//DP1024564, LOT 202//DP1042537, LOT 26//DP1024341, LOT 27//DP1024341, LOT 16//DP1024564, LOT 17//DP1024564</b>



## A3 Information supplied to the EPA

**A3.1** Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

**Any other document and/or management plan is not to be taken as part of the documentation in condition A3.1, other than those documents and/or management plans specifically referenced in this licence.**

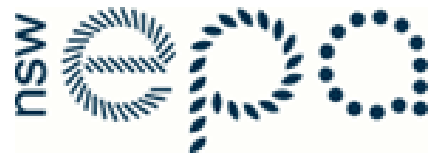
## 2 Discharges to Air and Water and Applications to Land

### P1 Location of monitoring/discharge points and areas

**P1.1** The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

#### Air

EPA Identification Number	Point Type	Point Type Description	Location Description
9	Monitoring	Air Emissions Monitoring	B HVAS Air Quality Sensitive Receiver, as shown on map titled " 20241204 - EPL20611 - Monitoring Point Locations Plan.pdf" EPA document reference DOC25/431784
12	Monitoring	Air Emissions Monitoring	DDG1, as shown on map titled " 20241204 - EPL20611 - Monitoring Point Locations Plan.pdf" EPA document reference DOC25/431784
13	Monitoring	Air Emissions Monitoring	DDG2, as shown on map titled " 20241204 -

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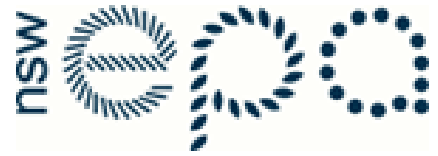
			EPL20611 - Monitoring Point Locations Plan.pdf" EPA document reference DOC25/431784
14	Monitoring	Air Emissions Monitoring	DDG3, as shown on map titled " 20241204 - EPL20611 - Monitoring Point Locations Plan.pdf" EPA document reference DOC25/431784
15	Monitoring	Air Emissions Monitoring	DDG4, as shown on map titled " 20241204 - EPL20611 - Monitoring Point Locations Plan.pdf" EPA document reference DOC25/431784

**P1.2** The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

**P1.3** The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.  
**Water and Land**

EPA Identification Number	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Discharge to waters	Discharge to waters	The discharge point from Dam 1 as shown on the plan titled "Proposed Surface Water Management Plan - Figure 3", which is filed as part of EPA document DOC15/253402.
2	Discharge to waters	Discharge to waters	The discharge point from Dam 2 as shown on as shown on the plan titled "Proposed Surface Water Management Plan - Figure 3", which is filed as part of

**Environment Protection Licence**



			EPA document DOC15/253402.
3	Discharge to waters	Discharge to waters	The discharge from Dam 3 as shown on the plan titled "Proposed Surface Water Management Plan - Figure 3", which is filed as part of EPA document DOC15/253402.

**P1.4** The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises.

**Noise**

EPA Identification Number	Point Type	Location description
11	Air blast overpressure & ground vibration peak particle velocity monitoring	Blast monitor located adjacent to Residence B as identified in 'Figure 1 - Appendix 2 - Noise Receiver Locations' located in EPA document DOC15/253402.

### 3 Limit Conditions

#### L1 Pollution of waters

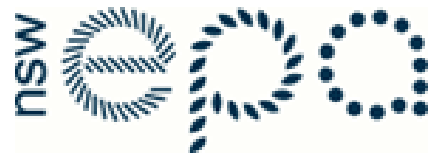
**L1.1** Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

#### L2 Concentration limits

**L2.1** For each monitoring/discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

**L2.2** Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

**L2.3** To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table/s.

**Environment Protection Licence****L2.4** Water and/or Land Concentration Limits**POINT 1,2,3**

Pollutant	UOM	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Total suspended solids	milligrams per litre				40
Oil and Grease	milligrams per litre				5 &/or none visible
pH	pH				6.5 - 8.5

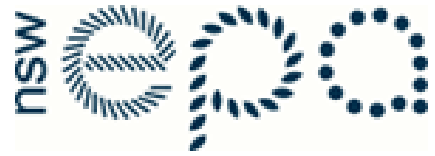
**L3 Waste**

- L3.1** The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.

**L4 Noise limits**

- L4.1** Noise generated at the premises must not exceed the noise limits in the table below. The locations referred to in the table below are indicated in *Table 2: Operational Noise Criteria*, and *Appendix 2 Figure 1: Noise Assessment Locations* of the document titled Project Approval 09\_0175 *Modification 10 (MOD 10)* Department of Planning, Industry & Environment - which has been recorded as EPA file DOC25/549126.

Noise Assessment Location	Morning Shoulder LAeq(15 min)	Morning shoulder LAmax	Day LAeq (15 min)	Evening LAeq (15 min)
A(74 Mill Hill Close, Karuah, Lot 100 DP 1028885)	35	52	42	40
B(64 Mill Hill Close, Karuah, Lot 3 DP785172)	35	52	40	40
G(2 Halloran Road, North Arm Cove Lot 1 DP1032636)	35	52	43	39

**Environment Protection Licence**

H(21 Halloran Road, North Arm Cove Lot 10 DP1032636)	35	52	44	46
All other residences	35	52	40	35

**L4.2** Noise limit definitions - For the purpose of the table at L4.1, the following definitions apply:  
 Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sunday and Public Holidays;  
 Morning Shoulder is defined as the period from 5:00am to 7:00am Monday to Saturday;  
 Evening is defined as the period from 6:00pm to 10:00pm Monday to Saturday.

**L4.3** The noise limits set out in this licence apply under all meteorological conditions except for the following:  
 a) Wind speed greater than 3 metres/second at 10 metres above ground level; or  
 b) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or  
 c) Stability category G temperature inversion conditions.

**L4.4 Determining Compliance**

To determine compliance with the noise limits set out in the table above, the licensee must locate monitoring equipment:

- within 30 metres of a dwelling facade (but not closer than 3 metres) where any dwelling on the property is situated more than 30 metres from the property boundary that is closest to the premises;
- approximately on the boundary where any dwelling is situated 30 metres or less from the property boundary that is closest to the premises;
- at the most affected point at a location where there is no dwelling at the location; and
- within approximately 50 metres of the boundary of a national park or nature reserve.

Note: A non-compliance of the Noise Limits table will still occur where noise generated from the premises in excess of the appropriate limit is measured:

- at a location other than an area prescribed in part (a) and part (b); and/or
- at a point other than the most affected point at a location.

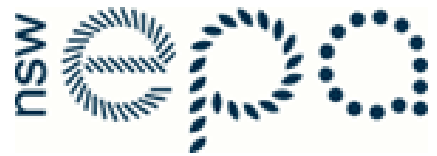
**L4.5** For the purposes of determining the noise generated at the premises the modification factors in Fact Sheet C of the EPA's "Noise Policy for Industry" must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.

**L5 Blasting**

**L5.1** Blasting in or on the premises must only be carried out between the hours of 9:00 am and 4:00 pm Monday to Friday. No blasting is permitted on Saturdays, Sundays or public holidays. Blasting outside of the hours specified in this condition can only take place with the written approval of the EPA.

**L5.2** Blasting is not permitted simultaneously with adjacent quarry(s).

## Environment Protection Licence



- L5.3** The airblast overpressure level from blasting operations in or on the premises must not exceed:
- a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and
  - b) 120 dB (Lin Peak) at any time, at monitoring point 11 detailed in Condition P1.4.
- L5.4** The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed:
- a) 5 mm/second for more than 5% of the total number of blasts during each reporting period; and
  - b) 10 mm/second at any time, at monitoring point 11 detailed in Condition P1.4.
- L5.5** Error margins associated with any monitoring equipment used to measure airblast overpressure or peak particle velocity are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.6** The airblast overpressure and ground vibration levels in the conditions above do not apply at noise sensitive locations that are owned by the licensee or subject to a private agreement, relating to airblast overpressure and ground vibration levels, between the licensee and land owner.
- L5.7** Offensive blast fume must not be emitted from the premises.

*Definition:*

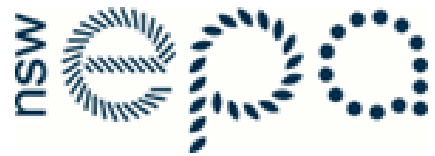
*Offensive blast fume means post-blast gases from the detonation of explosives at the premises that by reason of their nature, duration, character or quality, or the time at which they are emitted, or any other circumstances:*

1. *are harmful to (or likely to be harmful to) a person that is outside the premises from which it is emitted, or*
2. *interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted.*

## L6 Hours of operation

- L6.1** Hours of operation for each activity type permitted by this Licence are shown in the table below:.

Activity	Operating hours
Quarrying Operations	7:00 am to 9:00 pm, Monday to Friday.No quarrying operations on Sundays or Public Holidays.7:00 am to 10:00 pm Monday to Friday on 50 calendar days per year; and 7:00am to 6:00 pm, Saturday.No drilling 6:00 pm to 10:00 pm Monday to Friday or 1:00 pm to 6:00 pm Saturday.
Productloading anddispatch	5:00 am to 9:00 pm Monday to Friday5:00 am to 10:00 pm Monday to Friday on 50 calendar days per year6:00 am to 6:00 pm SaturdayNo



	product loading and dispatch on Sundays or Public Holidays
Construction activities	7.00 am to 6.00 pm, Monday to Friday; and 8.00 am to 1.00 pm, Saturdays, unless noise from these activities does not exceed 40 dB(A) LAeq(15 min) at any privately-owned residence.
Maintenance activities	24 hours a day, 7 days per week, providing maintenance activities are inaudible at any privately-owned residence

## L7 Potentially offensive odour

**L7.1** No condition of this licence identifies a potentially offensive odour for the purposes of Section 129 of the Protection of the Environment Operations Act 1997.

**Note:** Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

## 4 Operating Conditions

### O1 Activities must be carried out in a competent manner

**O1.1** Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

### O2 Maintenance of plant and equipment

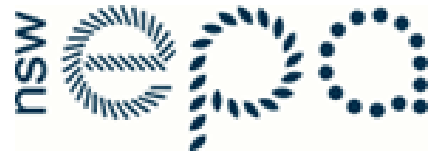
**O2.1** All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

### O3 Dust

**O3.1** All areas in or on the premises must be maintained in a condition that prevents or minimises the emission of dust to the air.

## **Environment Protection Licence**



- 03.2** Any activity carried out in or on the premises must be carried out by such practical means as to prevent dust or minimise the emission of dust to the air.
- 03.3** Any plant operated in or on the premises must be operated by such practical means to prevent or minimise dust or other air pollutants.
- 03.4** All trafficable areas and vehicle manoeuvring areas in or on the premises must be maintained, at all times, in a condition that will minimise the emission of dust to the air, or emission from the premises of wind-blown or traffic generated dust.
- 03.5** The licensee must ensure it has sufficient water during all stages of the quarry, and if necessary adjust the scale of quarrying operations on the premises to match its available supply.
- 03.6** Trucks entering and leaving the premises that are carrying loads of dust generating materials must have their loads covered at all times, except during loading and unloading.

## **04 Emergency response**

**Note:** The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises. The licensee must keep the incident response plan on the premises at all times. The incident response plan must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment.

The PIRMP must be tested at least annually or following a pollution incident.

The licensee must develop the PIRMP in accordance with the requirements in Part 5.7A of the Protection of the Environment Operations (POEO) Act 1997 and POEO Regulations.

## **05 Processes and management**

**05.1** All tanks and storage areas for drums containing material that has potential to cause environmental harm must be bunded or have an alternative spill containment system in-place.

The bunding and/or spill containment systems must be properly designed, engineered, and constructed to be suitable for the material types and quantities stored therein in accordance with all appropriate standards, including Australian Standards (AS)1940 and AS1596.

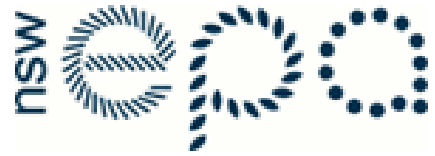
**05.2** Bunds must:

- a) have walls and floors constructed of impervious materials;
- b) be of sufficient capacity to contain 110% of the volume of the tank (or 110% volume of the largest tank where a group of tanks are installed);
- c) have floors graded to a collection sump;
- d) not have a drain valve incorporated in the bund structure;

or be constructed and operated in a manner that achieves the same environmental outcome.

**05.3** All refuelling must be undertaken in a dedicated refuelling area. The refuelling area must be a hardstand and suitably bunded in accordance with EPA bunding guidance.

## **Environment Protection Licence**



- 05.4** The licensee must, before undertaking any earthmoving or vegetation removal works, implement erosion and sediment control measures to prevent pollution of waters in accordance with *Soils and Construction: Managing Urban Stormwater 2004* (Landcom, 2004).
- 05.5** Stormwater from all areas of the premises which has the potential to mobilise sediments and other material must be controlled and diverted through the appropriate erosion and sediment control and/or pollution control measures/structures, so as not to cause, permit or allow water pollution to occur.
- 05.6** The in-pit sump must be sized at all times to prevent a discharge to waters in the event of pump failure.

### **06 Waste management**

- 06.1** The licensee must not irrigate, discharge or dispose of sewage effluent, on the premises.
- 06.2** The licensee must operate and maintain a wastewater collection and storage tank/s to enable the pump out and offsite disposal of any sewage effluent.
- 06.3** The licensee must ensure that sewage effluent collected at the premises is pumped out and disposed of in a lawful manner.

### **07 Other operating conditions**

#### **Noise and Blast Management**

- 07.1** The licensee must implement all necessary procedural controls to all mobile plant to limit engine RPM (revolutions per minute) so as to reduce noise in order to achieve compliance with the noise limits specified in this licence.

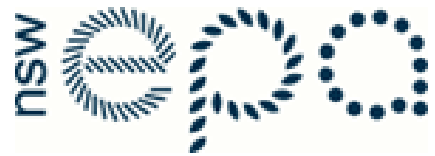
#### **Bitumin Pre-coat Plant**

- 07.2** The licensee must not have a bitumin pre-coat plant on the site. Project Approval MP09\_0175 did not assess or approve such a plant.

## **5 Monitoring and Recording Conditions**

### **M1 Monitoring records**

- M1.1** The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2** All records required to be kept by this licence must be:
  - a) in a legible form, or in a form that can readily be reduced to a legible form;
  - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
  - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3** The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
  - a) the date(s) on which the sample was taken;
  - b) the time(s) at which the sample was collected;



- c) the EPA point identification number for the point at which the sample was taken; and
- d) the name of the person who collected the sample

## M2 Requirement to monitor concentration of pollutants discharged

**M2.1** For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

### M2.2 Air Monitoring Requirements

#### POINT 12,13,14,15

Pollutant	UOM	Frequency	Sampling Methods
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

#### POINT 9

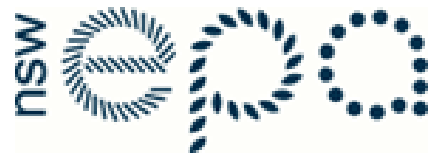
Pollutant	UOM	Frequency	Sampling Methods
PM10	micrograms per cubic metre	Every 6 days	AM-18
Total suspended particles	micrograms per cubic metre	Every 6 days	AM-15

### M2.3 Water and/ or Land Monitoring Requirements

#### POINT 1,2,3

Pollutant	UOM	Frequency	Sampling Methods
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
Turbidity	nephelometric turbidity units	Special Frequency 1	Grab sample
Oil and Grease	milligrams per litre	Special Frequency 1	Visual Inspection
pH	pH	Special Frequency 1	Grab sample

Note: For the purposes of the table above 'Special Frequency 1' means:  
(a) within 12 hours prior to any controlled discharge; and



- (b) daily during a controlled discharge; or
- (c) daily during any uncontrolled discharge.

### M3 Testing methods - concentration limits

- M3.1** Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
- a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
  - b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
  - c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

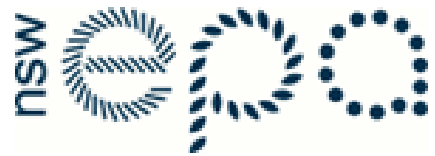
Note: The *Protection of the Environment Operations (Clean Air) Regulation 2022* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

- M3.2** Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

### M4 Weather monitoring

- M4.1** Prior to the commencement of operation of the development, the Proponent must establish a permanent meteorological station complying with the Approved Methods for Sampling and Analysis and the Australian Standard AS2923 - 1987, at the facility. The meteorological station must monitor the following parameters:

Parameter	Units of measure	Averaging period	Frequency	Sampling Method
Rainfall	mm/hr	1 hour	Continuous	AM-4
Sigma Theta @ 10m	degrees	1 hour	Continuous	AM-2
Siting	-	-	-	AM-1
Temperature @ 10m	Kelvin	1 hour	Continuous	AM-4
Temperature @ 2m	Kelvin	1 hour	Continuous	Am-4
Total Solar Radiation @ 10m	W/m2	1 hour	Continuous	AM-4

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Wind direction @ 10m	degrees	1 hour	Continuous	AM-2
Wind speed @ 10m	metres per second	1 hour	Continuous	AM-2

Note: Sampling methods as identified in the table above refer to those outlined in *NSW EPA, 2001, Approved Methods for the Sampling and Analysis of Air Pollutants in NSW*.

**M4.2** The location of the site chosen for the station and details of equipment, measurement and maintenance / service procedures and schedules to be installed and maintained must be submitted to the EPA and approved in writing by the EPA before any sampling or analysis is carried out.

**M4.3** The meteorological monitoring station must be calibrated at least once every 12 months. The EPA is to be provided with data on request in a Microsoft Office software compatible format.

## M5 Recording of pollution complaints

**M5.1** The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

**M5.2** The record must include details of the following:

- the date and time of the complaint;
- the method by which the complaint was made;
- any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- the nature of the complaint;
- the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
- if no action was taken by the licensee, the reasons why no action was taken.

**M5.3** The record of a complaint must be kept for at least 4 years after the complaint was made.

**M5.4** The record must be produced to any authorised officer of the EPA who asks to see them.

## M6 Telephone complaints line

**M6.1** The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

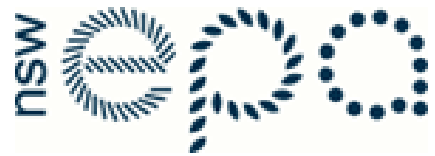
**M6.2** The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

**M6.3** The preceding two conditions do not apply until 1 month after the date of the issue of this licence.

## M7 Blasting

**M7.1** To determine compliance with Blast Limit conditions of this licence:

a) Airblast overpressure and ground vibration levels must be measured and electronically recorded



for monitoring point 11 for the parameters specified in Column 1 of the table below; and  
 b) The licensee must use the units of measure, sampling method, and sample at the frequency specified opposite in the other columns.

Parameter	Units of Measure	Frequency	Sampling Method
Airblast Overpressure	Decibels (Linear Peak	All blasts	Australian Standard AS 2187.2-2006
Ground Vibration Peak Particle Velocity	millimetres/second	All blasts	Australian Standard AS 2187.2-2006

## M8 Noise monitoring

- M8.1** To assess compliance with the noise limits for this premises attended noise monitoring must be undertaken in accordance with all noise conditions and:
- during a period of normal quarry operations;
  - at each one of the locations listed in the noise limits table of this licence;
  - occur quarterly in the reporting period;
  - occur during each day period as defined in the NSW Noise Policy for Industry.

Note: Quarterly attended noise monitoring must be completed (unless otherwise agreed by the Planning

Secretary) to determine whether the development is complying with the relevant conditions

of this consent. The frequency of noise monitoring will be reviewed, upon request.

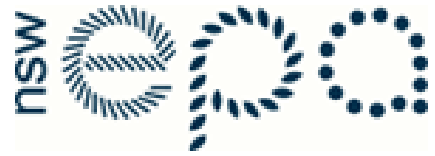
## 6 Reporting Conditions

### R1 Compliance, and annual reporting requirements

#### Compliance with licence conditions

- R1.1** The licensee must supply the EPA, via the EPA's online digital portal, the following details of any non-compliance with the conditions of the licence within 21 days after the licensee becomes aware of the non-compliance:
- the date the licensee became aware of the non-compliance;
  - the date(s) the non-compliance occurred, including if the non-compliance is continuing;
  - whether the non-compliance relates to air, water/land, noise or waste matters (if applicable);
  - whether the non-compliance relates to a pollution incident;
  - the licence condition(s) not complied with;
  - a summary of particulars of the non-compliance, including (if known):
    - the location where the non-compliance occurred;

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- ii. the duration of the non-compliance;
- iii. if the non-compliance is continuing, the suspected end date of the non-compliance;
- g. the cause or suspected cause of the non-compliance;
- h. any action taken, or proposed to be taken, to mitigate the effects of the non-compliance; and
- i. any action taken, or proposed to be taken, to prevent a recurrence of the non-compliance.

**R1.2** The EPA may make a written request for further details in relation to each non-compliance reported in accordance with Condition R1.1. The licensee must provide such further details to the EPA, via the EPA's online digital portal, within the time specified in the request.

**R1.3** Condition R1.1 does not apply where a non-compliance with a licence condition has been identified by the EPA as part of an EPA environmental compliance audit.

### **Reporting transition arrangements**

**R1.4** By 05 August 2026, the licensee must supply to the EPA, via the EPA's online digital portal the details required in Condition R1.1 for any non-compliance with the conditions of the licence that occurred:

- i. after the date the licensee supplied their last Statement of Compliance - Licence Conditions to the EPA, and
- ii. before the date of the notice of variation of licence that added this condition to this Licence.

### **Pollution monitoring data summary**

**R1.5** If the licensee undertakes monitoring as a result of a licence condition, the licensee must supply to the EPA a summary of the results of the pollution monitoring data in respect of each reporting period. The summary must be provided as a Microsoft Excel file, formatted with the following column headings:

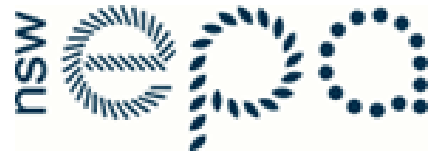
- a. EPA point identification number;
- b. pollutant;
- c. unit of measure;
- d. number of samples required;
- e. number of samples collected and analysed;
- f. lowest sample value;
- g. mean of sample values; and
- h. highest sample value.

The pollution monitoring data summary for the reporting period must be supplied to the EPA via the EPA's online digital portal by the "due date", as defined in the dictionary at the end of this licence.

## **R2 Notification of environmental harm**

**Note:** The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

**R2.1** Notifications must be made by telephoning the Environment Line service on 131 555.



**R2.2** The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.

### R3 Written report

- R3.1** Where an authorised officer of the EPA suspects on reasonable grounds that:
- where this licence applies to premises, an event has occurred at the premises; or
  - where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2** The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3** The request may require a report which includes any or all of the following information:
- the cause, time and duration of the event;
  - the type, volume and concentration of every pollutant discharged as a result of the event;
  - the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
  - the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
  - action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
  - details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
  - any other relevant matters.
- R3.4** The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

### R4 Other reporting conditions

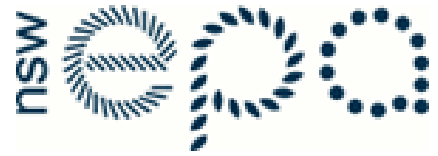
#### **Reporting blasting limit exceedance**

**R4.1** The licensee must report any exceedance of the licence blasting limits to the regional office of the EPA as soon as practicable after the exceedance becomes known to the licensee or to one of the licensee's employees or agents.

#### **Annual Blast Monitoring Report**

**R4.2** The licensee must supply a Blast Monitoring Report with the EPA licence Annual Return, which must include the following information relating to each blast carried out within the premises during the respective reporting period:

- the date and time of the blast;
- the location of the blast on the premises;
- the blast monitoring results at each blast monitoring station;
- an explanation for any missing blast monitoring results.



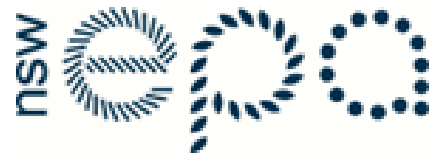
**Noise Monitoring Report**

- R4.3** A quarterly noise monitoring report must be submitted to the EPA within 30 days of completion of each round of quarterly noise monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:
- a) a description of the plant in operation and activities being undertaken on the premises during each noise monitoring assessment;
  - b) an assessment of compliance with noise limits presented in this licence; and
  - c) an outline of any management actions taken within the monitoring period to address any exceedances of the limits contained in this licence.

## 7 General Conditions

### G1 Copy of licence kept at the premises or plant

- G1.1** A copy of this licence must be kept at the premises to which the licence applies.
- G1.2** The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3** The licence must be available for inspection by any employee or agent of the licensee working at the premises.

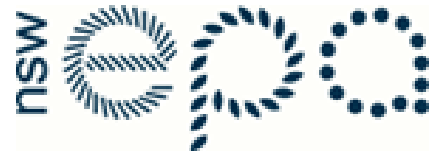


## Dictionary

### General Dictionary

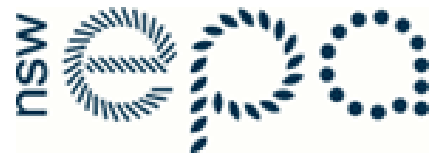
<b>3DGM [in relation to a concentration limit]</b>	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
<b>Act</b>	Means the Protection of the Environment Operations Act 1997
<b>activity</b>	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
<b>actual load</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2022
<b>AM</b>	Together with a number, means an ambient air monitoring method of that number prescribed by the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.
<b>AMG</b>	Australian Map Grid
<b>anniversary date</b>	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
<b>Approved Methods Publication</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2022
<b>assessable pollutants</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2022
<b>BOD</b>	Means biochemical oxygen demand
<b>CEM</b>	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

## **Environment Protection Licence**



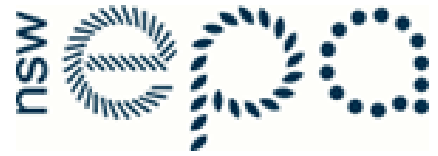
<b>COD</b>	Means chemical oxygen demand
<b>composite sample</b>	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
<b>cond.</b>	Means conductivity
<b>due date</b>	Means: <ul style="list-style-type: none"> <li>i) not later than 60 days after the end of each reporting period; or</li> <li>ii) in the case of a transferring licence - not later than 60 days after the date the transfer was granted.</li> </ul>
<b>environment</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>environment protection legislation</b>	Has the same meaning as in the Protection of the Environment Administration Act 1991
<b>EPA</b>	Means the Environment Protection Authority of New South Wales.
<b>EPA Online digital portal</b>	Means eConnect EPA
<b>general solid waste (non-putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>flow weighted composite sample</b>	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
<b>general solid waste (putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>grab sample</b>	Means a single sample taken at a point at a single time
<b>hazardous waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>licensee</b>	Means the licence holder described at the front of this licence
<b>Licensing Fee Category (Regulation)</b>	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2022.
<b>load calculation protocol</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2022

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<b>local authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>material harm</b>	Has the same meaning as in section 147 of the Protection of the Environment Operations Act 1997
<b>MBAS</b>	Means methylene blue active substances
<b>Minister</b>	Means the Minister administering the Protection of the Environment Operations Act 1997
<b>mobile plant</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>motor vehicle</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>O&amp;G</b>	Means oil and grease
<b>Percentile [in relation to a concentration limit of a sample]</b>	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
<b>plant</b>	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
<b>pollution incident</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>Pollution of waters [or water pollution]</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>premises</b>	Means the premises described in condition A2.1
<b>public authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>regional office</b>	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
<b>reporting period</b>	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.

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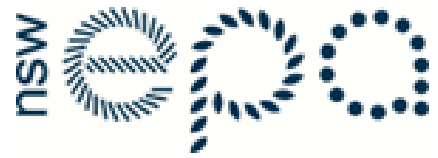
<b>restricted solid waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>scheduled activity</b>	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
<b>special waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>TM</b>	Together with a number, means a test method of that number prescribed by the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.
<b>TSP</b>	Means total suspended particles
<b>TSS</b>	Means total suspended solids
<b>Type 1 substance</b>	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
<b>Type 2 substance</b>	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
<b>utilisation area</b>	Means any area shown as a utilisation area on a map submitted with the application for this licence
<b>waste</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>waste type</b>	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste
<b>wellhead</b>	Has the same meaning as in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2022

**Stephen Beaman**

**Executive Director Regulatory Operations**

**NSW Environment Protection Authority**

## **Environment Protection Licence**



### **End Notes**

Licence varied by notice POEO-2589, issued on 09-06-2026

Licence varied by notice 1652325 issued on 04-Sep-2025

Licence varied by notice 1649136 issued on 24-Jul-2025

Licence varied by notice 1645946 issued on 17-Feb-2025

Licence varied by notice 1623762 issued on 07-Nov-2022

Licence varied by notice 1621603 issued on 02-Sep-2022

Licence format updated on 18-Jul-2019

Licence varied by notice 1578081 issued on 25-Jun-2019

Licence varied by notice 1571215 issued on 16-Jan-2019

Licence varied by notice 1547416 issued on 06-Dec-2016

Licence varied by notice 1533596 issued on 21-Sep-2015