

Pollution Incident Response Management Plan

PEPPERTREE QUARRY



Version Fourteen: November 2022

DOCUMENT CONTROL SHEET

Rev.	Date	Prepared by	Approved By	Revision Details
01	20 Aug 2012	Rod Johnson	Rod Johnson	Document Created
02	8 Oct 2012	Sharon Makin	Rod Johnson	Updated site reference map Updated staff contact details Added quantities of substances stored Updated PIRMP response actions
03	9 May 2013	Nathan Jeffery / Sharon Makin	Rod Johnson	Document control sheet added Format Changes Changed & Added additional maps Updated staff contact details
04	September 2014	Sharon Makin	Rod Johnson	Updated staff contact details Updated PIRMP response actions Added Incident #11
05	September 2015	Sharon Makin	Rod Johnson	Added Scalp materials Added Incident #12
06	20 June 2016	Sharon Makin	Rod Johnson	Reviewed following Drill No change required
07	June 2017	Sharon Makin	Rod Wallace	updated to include recommendations from Drill
08	November 2017	Sharon Makin	Rod Wallace	updated to include recommendations from drill
09	July 2018	Sharon Makin	Angus Shedden	reviewed following PIRMP Drill July 2018
10	November 2018	Sharon Makin	Angus Shedden	changed Boral contact Rod Wallace to Rod Wallace
11	November 2019	Sharon Makin	Angus Shedden	Reviewed following Drill No change required
12	August 2020	Sharon Makin	Michael Higgins	Reviewed following Drill Change of Managers details
13	April 2022	Sharon Makin	Michael Higgins	Reviewed following Drill Change of Advisors details
14	November 2022	Chris Brown	Michael Higgins	Reviewed following Drill No change required

Current rev	date implemented	PIRMP test Schedule	Date for next review
14	November 2022	12 months	November 2022

PART A

TABLE OF CONTENTS

Contents

1. PURPOSE	6
2. LEGISLATIVE REQUIREMENTS	6
3. DEFINITION OF 'POLLUTION INCIDENT'	6
4. SCOPE	7
5. SITE LAYOUT	7
6. POTENTIAL POLLUTING SUBSTANCES	9
7. ROLES AND RESPONSIBILITIES	13
8. INTERNAL POLLUTION INCIDENT REPORTING	14
9. EXTERNAL POLLUTION INCIDENT REPORTING	15
10. POLLUTION INCIDENT AUTHORITY CONTACT LIST	15
11. INCIDENT RESPONSE TRAINING	17
12. PIRMP TESTING	18
13. PIRMP REVIEW	18
13.1. EVENT BASED	18
13.2. TIME BASED	18
14. APPENDIX A : RISK ASSESSMENT on POTENTIAL IMPACTS	19
15. PART B: PIRMP RESPONSE ACTIONS and MAPS	23
16. PART B: POLLUTION INCIDENT NOTIFICATION LOG	31

1. PURPOSE

The purpose of the Peppertree Quarry Pollution Incident Response Plan is to:

- Provide direction to the staff at Peppertree Quarry in responding to pollution incidents at the Peppertree operations;
- Ensure timely communication about a pollution incident is provided to staff at the premises, the Environment Protection Authority (EPA), other relevant authorities specified in the Protection of the Environment Legislation Amendment Act (POELA Act) (including Goulburn Mulwaree Council, NSW Ministry of Health, Work Cover NSW, and Fire and Rescue NSW) and persons outside the operations who may be affected by the impacts of a pollution incident **that is not trivial**;
- Minimise and control the risk of a pollution incident at Peppertree Quarry by identifying key risks and planned actions to minimise and manage those risks;
- Detail the training requirements for this plan, identifying persons responsible for implementing it, and ensuring that the plan is regularly tested for accuracy, currency and suitability.

2. LEGISLATIVE REQUIREMENTS

The specific requirements for a PIRMP are set out in Part 5.7A of the POEO Act and the Protection of the Environment Operations (General) Regulation 2009 (POEO (G) Regulation). In summary, this provision requires the following:

- All holders of environment protection licences must prepare a pollution incident response management plan (section 153A, POEO Act).
- The plan must include the information detailed in the POEO Act (section 153C) and be in the form required by the POEO (G) Regulation (clause 98B).
- Licensees must keep the plan at the premises to which the environment protection licence relates (section 153D, POEO Act).
- Licensees must test the plan in accordance with the POEO(G) Regulation (clause 98E).
- if a pollution incident occurs in the course of an activity so that material harm to the environment is caused or threatened, licensees must immediately implement the plan (section 153F, POEO Act)

3. DEFINITION OF 'POLLUTION INCIDENT'

The definition of a pollution incident is:

“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.”

A pollution incident is required to be notified if there is a risk of ‘material harm to the environment’, which is defined in section 147 of the POEO Act 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.

Peppertree Quarry is now required to report **non-trivial** pollution incidents immediately to the EPA, NSW Health, Fire and Rescue NSW, WorkCover NSW and the local council.

4. SCOPE

This PIRMP must be followed by employees, contractors and visitors of Peppertree Quarry, to assist in the early response to and reporting of a pollution incident.

5. SITE LAYOUT

The overall site layout of Peppertree is shown in Figure 1. Please note that Part B of this PIRMP contains detailed maps which describe the important details for each pollution incident scenario.

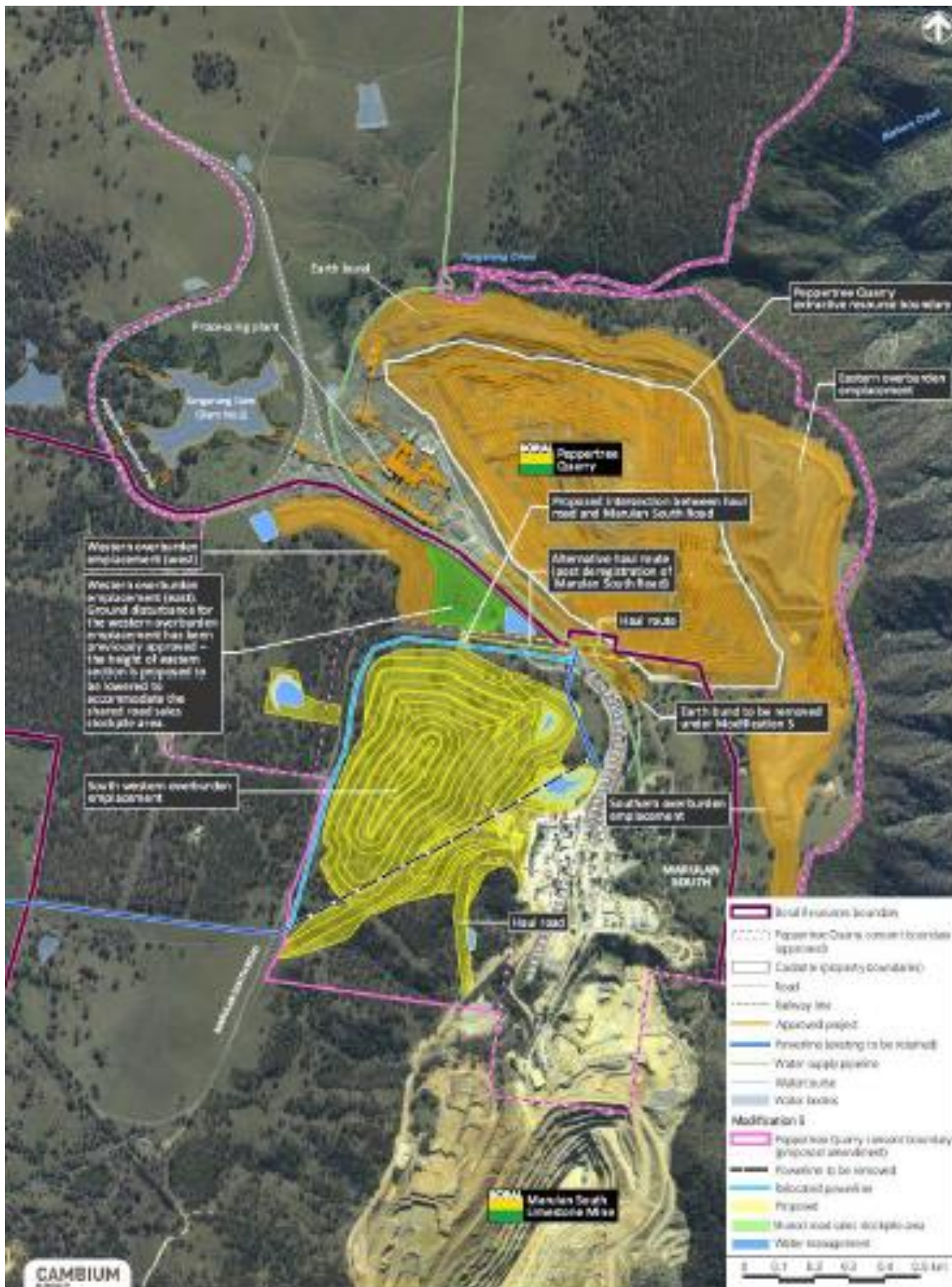


Figure 1 Peppertree Quarry Site Layout

6. POTENTIAL POLLUTING SUBSTANCES

Table 1 below is the inventory of potential pollutants kept on the premises. This inventory provides a description of the main hazards to human health or the environment, an assessment of the likelihood of the hazards occurring and also includes the current controls and safety equipment and/or pre-emptive actions in place to minimise or prevent risk of harm to human health or the environment.

TABLE 1: INVENTORY OF POTENTIAL POLLUTING SUBSTANCES INITIAL ASSESSMENT (Clause 98C(1)(d) & (e) (all Chemicals listed in this sheet are to be subjected to a risk assessment located in Appendix A)		
Site Name: Peppertree Quarry	Responsible Person: Michael Higgins	Date: November 2022

Name / description	Covered under Haz Chemicals/MS DS?	Amount stored	Location of storage	Map reference	Likelihood of impact on neighbours	Current controls	See Risk Ass & PIRMP Response Action (see Below)
CHEMICALS/FUELS/LUBRICANTS							
Uncontrolled loss of diesel or other hydrocarbon products that could result in material harm to the environment or human health	Class 3 & Class 2	Diesel storage 165,000 L Waste oil 11,000L Packaged oils 3,000L	Diesel Storage Area at train load out Diesel storage area at farm house associated with contractor go line waste oil at Workshop Oil storage farm shed		LOW Only if substances enter waterways and is transported off site	<ul style="list-style-type: none"> • Self bunded tank • Bunding • PMP • Training • Spill Kits • SOP • Inductions • Fire Fighting Equipment • Security • Monthly inspections 	Incident #1
MATERIALS (eg stockpiles, silos, bulk solids etc)							
Uncontrolled collapse of Aggregate, scalp or sand stockpiles causing material harm to the environment	N/A	Variable	Dedicated on site		LOW Only if excessive sediment enters water ways and is transported off site	<ul style="list-style-type: none"> • Inspection • Drainage • Bunding • Stability / height management 	Incident #3

					during significant rain events		
--	--	--	--	--	--------------------------------	--	--

Name / description	Covered under Haz Chemicals/MS DS?	Amount stored	Location of storage	Map reference	Likelihood of impact on neighbours	Current controls	See Risk Ass & PIRMP Response Action (see Below)
AIRBORNE DUST (eg stockpiles, silos, bulk solids etc)							
Excessive airborne dust from stockpiled material, mobile plant or traffic areas causing material harm to the environment or significant impact to the community	Hazardous Substance GHS category 2 (Silica content)	Variable	Dedicated on site		LOW Only if excessive dust is spread off-site during high winds	<ul style="list-style-type: none"> Water sprays Water Cart Maintain manageable levels Security Occupational hygiene monitoring Reduce speeds 	Incident #2
Excessive airborne dust from failure of equipment or structures causing material harm to the environment or significant impact to the community	Hazardous Substance GHS category 2 (Silica content)	Variable	Dedicated on site		LOW Only if excessive dust is spread off-site during high winds	<ul style="list-style-type: none"> Security Occupational hygiene monitoring Regular audits and inspections on infrastructure Regular planned maintenance 	Incident #2
AQUEOUS (eg dams, wastewater tanks, other water storage area)							
Uncontrolled release of sediment laden water from storage dams causing material harm to the environment	TSS, EC	Variable – refer water management plan	site		LOW Only if excessive sediment enters water ways and is transported off site during significant rain events	<ul style="list-style-type: none"> Continue to use for dust suppression Ensure pumps are maintained through scheduled maintenance Discharge monitoring Regular inspection Rock bunds 	Incident #3

						<ul style="list-style-type: none"> • Management of water during rain events with forecast system 	
--	--	--	--	--	--	---	--

Name / description	Covered under Haz Chemicals /MSDS?	Amount stored	Location of storage	Map reference	Likelihood of impact on neighbours	Current controls	See Risk Ass & PIRMP Response Action (see Below)
SUBSTANCES IN PROCESSES (substances which could be emitted from operational process i.e. treatment plants, vehicles etc)							
Excessive fume / smoke from the combustion of flammable products onsite causing material harm to the environment or unexpected impact on the community	N/A	Flammable materials – infrastructure / tyres / belts / flammable goods	Site process	site	N/A	<ul style="list-style-type: none"> • Regular scheduled maintenance • Emergency response training • Fire fighting equipment • Annual audits 	Incident # 5
Excessive blast fume from blasts causing significant and unexpected impact to the community	N/A	Blast fume containing NOX, SOX	Active production pit area onsite		LOW Only if explosives are dormant for excessive periods of time and exposed to water during blasting and prevailing winds push fumes towards community	<ul style="list-style-type: none"> • Blast Management Plan • Procedures • PMP • Training • Don't sleep shots for excessive periods (ie 7+ days) • Avoid loading into wet holes 	Incident #4

7. ROLES AND RESPONSIBILITIES

Table 2: Site Personnel Roles and Responsibilities

Position	Responsibility
<i>Employees and Contractors</i>	<p>Following the procedures outlined in the PIRMP and related documents</p> <p>Immediately alerting Supervisor or Team Leader of any environmental incidents or near-misses.</p>
<i>Team Leaders / Front Line Supervisors</i>	<p>Following the procedures outlined in the PIRMP and related documents (HSEQ MS 3-02)</p> <p>Immediately alerting Site/Quarry Manager or, in case of their unavailability, Environmental Representative or Environment Manager of any potentially material environmental incidents or near-misses.</p> <p>Assist in conducting incident investigations</p>
<i>Site / Operations Manager and/or Site Environmental Coordinator</i>	<p>Authorisation of the PIRMP</p> <p>Administration, maintenance and implementation of the PIRMP</p> <p>Assessing whether the incident is non-trivial and has caused or threatens “material environmental harm” and communicate details to management</p> <p>Provide direction and advice on incident response</p> <p>Coordinate communication to neighbours through Stakeholder Relations Manager</p> <p>Ensuring that investigations are undertaken to a level corresponding to the level of risk and impact.</p>
<i>HSE Regional Manager and/or Environment Manager NSW/ACT</i>	<p>Make a determination as to whether the incident (as defined in section 147 of the POEO Act) is non-trivial and therefore reportable to external agencies</p> <p>Inform Executive General manager and Group management of Notification to External Agencies</p> <p>Undertake notifications as defined in PIRMP</p> <p>Authorize notifications to public and/or media following GRP-HSEQ-2-02</p>

The Peppertree Quarry Emergency Management Plan identifies a number of roles that are activated in response to any emergency.

Boral staff are trained in these roles and it is the responsibility of the “incident controller” (site supervisor) to delegate these roles at the time of an incident.

PIRMP incidents will be managed in the same way.

The roles include ...

Incident Controller	Assembly area officer
Communication Controller	Deputy Incident Controller
Emergency escort	Fire pump operator
First aid attendant	Site Guard

8. INTERNAL POLLUTION INCIDENT REPORTING

Any pollution incident satisfying the **material harm** threshold must be immediately reported to relevant statutory authorities by either the HSE Regional Manager, or Environment Manager.

In cases where “material harm” level cannot be immediately assessed or insufficient information comes to hand on the severity of the incident, the general advice is to err on the side of caution and notify the Relevant Authorities with a qualification that the situation could not yet be fully assessed.

Until further notice the following procedure needs to be followed:

1. When a pollution incident occurs, a person who has become aware of it must immediately bring it to the attention of his/her immediate Supervisor or Manager
2. If necessary, first ring “ 000 ” for Emergency Services
3. At least one of the following BCM personnel must be contacted **immediately**:

Table 3 Key Personnel Contact Information

Name	Function	Phone number	Mobile number
Michael Higgins	Operations Manager Peppertree	4841 1701	
Frank Lourey	Production Manager	4841 1701	
Chris Brown	Environmental Advisor	4841 1701	
Rod Johnson	Environmental Manager – NSW / ACT		

Whilst personal contact details for the following are available in this Controlled on site Pollution Incident Response Management Plan they do not appear in the public document

4. Michael Higgins or in case of his unavailability one of the Senior Management personnel listed above, is to **immediately** notify the NSW HSE Regional Manager or Environment Manager NSW/ACT
5. NSW HSE Regional Manager or Environment Manager NSW/ACT to **immediately** notify all Appropriate Regulatory Authorities specified in Section 10.

6. In borderline situations, where the exceedance of the trigger level of “material harm” of a pollution incident may not be clear, a quick assessment including consultation with Boral environmental personnel should be undertaken to help the decision whether to notify or not.
7. Boral’s Senior Management must be informed promptly of the fact of immediate notification to the Authorities. This includes environmental personnel listed above, as well as Angus Shedden, James Collings, and Scott Carter.

9. EXTERNAL POLLUTION INCIDENT REPORTING

As the legislation requires that notification must be done immediately upon becoming aware of the pollution incident, it is unlikely that a detailed picture will be available for reporting. Notwithstanding, it seems that some of the Government Authorities prepared a detailed questionnaire which is being filled at the time of this initial notification. Under the stress of incident handling it could be easy to provide a hasty, inaccurate estimate of the situation when answering these questions.

Therefore, the notification should be restricted to the facts known and nothing should be assumed or guessed. The details will be provided to the asking Authority later when more information comes to hand.

The initial notification should include as much of the following information (if known) as possible:

- location and time of the pollution incident
- type of the incident (spill, fire, unlicensed harmful discharge, etc)
- assessed level of incident gravity: “it seems to be...” (e.g. “a relatively minor spill”; “major fire”, “explosion limited to one building”, etc.)
- whether the Emergency Services have been required to attend.

Unless known for a fact, the answers to other questions should be politely deferred until a better assessment of the situation can be made.

The Boral person who is responsible for notifying the Authorities (NSW HSE Regional Manager or Environment Manager NSW/ACT) about the incident must prepare a Notification Log (a suitable form is attached) with the details of time of notifications and the persons who took to the call. The Authorities will generally provide an Incident Notification Number.

Notification of all Appropriate Government Authorities (at least 5 entities) may take considerable time. Delays may be experienced connecting to the right person or no contact may be possible after hours. All such instances should be recorded in the Notification Log.

10. POLLUTION INCIDENT AUTHORITY CONTACT LIST

Table 4 Pollution Incident Authority Contact List

Government Authority - compulsory notifications	Emergency notification phone number
EPA – Environment Line	131 555
DPE- Environment and Heritage	1300 361 967
Police & Ambulance	000

Fire and Rescue NSW (FRNSW)	1300 729 579
Goulburn Mulwaree Council	(02) 4823 4444
Public Health Unit (Camperdown) – Sydney South West AHS.	HealthLink (24 hr)- 1800 063 635 Head Office- Camperdown – 9515 9467
Safework NSW	131050 Company ABN if asked: 51 000 756 507

Government Authority - ring if relevant	Emergency notification phone number
Roads and Maritime Services (road spills)	132 701
NSW Office of Water	8838 7885
Bush Fire Control Officer	1800 049 933
Poisons Information Centre	131 126
Endeavour Energy	131 003
National Parks and Wildlife (Bungonia office)	02 48444277

Should the incident be limited to the discharge of sediments or discolored water to Tangarang creek only the Authorities highlighted in yellow need to be contacted. It has been determined that there is no human health impact as a result of such an incident.

Communication with the local community may also be undertaken depending on the circumstances of the pollution incident. For most incidents identified, there is no impact on the local residential community. Incidents #2, #4 and #5 have the potential to be visible and / or impact on the residents.

Peppertree Quarry would consider the following options for providing Early Warning and ongoing information to the community on pollution incidents:

- Direct phone contact with any local residents directly impacted by the pollution incident using the details in Table 5 below.
- Letter Box drops of incident information and site contacts to local residents impacted by the pollution incident
- The inclusion of incident details through the routine Community Consultative Committee meetings.

The Stakeholder Relations Manager can assist in the process of communicating with the community, as per the Stakeholder Engagement Plan for the site.

Table 5: Neighbour Notification List

Neighbour Notification List (contact if relevant)			
Reference	Contact Name	Address	Contact Details
1	Barry and Emily Armit		
2	Tino Foti		

3	Charles Mendel		
4	Josh and Penny Cooper		
5	Frank Bortoli		
6	Steve and Annette Pace		
7	Pat and Bridgette Mulligan		
8	David Sali		
9	Nick Levy		
10	Vanessa Montgomery		
11	Hilary Myers		
12	Geoff Clark (CCC)		

Whilst personal contact details for the following are available in this Controlled on site Pollution Incident Response Management Plan they do not appear in the public document

11. INCIDENT RESPONSE TRAINING

Peppertree Quarry will implement the Pollution Incident Response Management Plan by training or providing information to employees and contractors in relevant areas of the Plan. The nature and objectives of staff training is to relate to site personnel the importance of early notification of any incidents and spills to site supervisors and key personnel.

Training or information will be provided on the following;

- The contents and intent of this PIRMP,
- The roles and responsibilities of site staff in relation to this PIRMP
- Spill response procedures;
- General environmental awareness; and / or
- Hazardous materials awareness.
- Emergency response plan

Site inductions for visitors and sub-contractors also advise individuals to report any environmental incidents or spills to site supervisors and key personnel immediately. Key site personnel and supervisors participate in PIRMP tests which are used as practical training and can also be used to identify any potential gaps or areas for improvement for the PIRMP. A summary of the PIRMP Drills undertaken at Peppertree Quarry is shown below in Table 6.

Table 1: PIRMP Drills Undertaken at Peppertree Quarry

Version of PIRMP tested	Test Date	Incident drilled
V1	No test	Document created
V2	No test	Document review and updated
V3 (May 2013)	3 rd September 2014	Fire in crusher building – new incident
V4 (May 2014)	31 August 2015	Heavy rainfall resulting in sediment from stockpile into local waterway – new incident
V5 (Sept 2015)	18 June 2016	#1 Heavy rainfall creating overflow from waste oil tank
V6 (June 2016)	October 2016	#3 loss of oil from bund overflow

V7 (Nov 2016)	9 September 2017	#1 overflow of waste oil tank resulting in discharge to creek
V8 (Nov 2017)	4 July 2018	Failure of structure resulting in dust – new incident
V9 (July 2018)	No test	Updated contact details
V10 (Nov 2018)	11 October 2019	#5 oil drum fire – drill and blast office
V11 (Nov 2019)	25 th August 2020	#3 Overburden slump due to rain
V12 (August 2020))	20 th April 2022	#4 excessive blast fume
V13 (April 2022)	24 th November 2022	#1 oil spill

12. PIRMP TESTING

Plans must be tested routinely at least once every 12 months. The testing is to be carried out in such a manner as to ensure that 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.

Routine testing of the plan will be conducted annually, and can be completed through the following methods:

- Simulated environmental emergency, or
- Desktop simulations.

13. PIRMP REVIEW

Revisions are to be coordinated by the Site Manager and Environmental Representative.

The objectives of a review are:

- To maintain compliance with the statutory requirements, and
- To identify opportunities for improvement in the Plan, and reduce the risk to human health and the environment

13.1. EVENT BASED

Events which may trigger a review of this Plan or its associated documents include:

- Within 1 month of reporting to the nominated parties in accordance with the plan, after a pollution incident, or
- Modification/Improvement to the system

13.2. TIME BASED

Peppertree Quarry will review this management plan routinely every 12 months. The Plan review will include:

- This Document, and
- Legislation, Approval and Licence changes.

14. APPENDIX A : RISK ASSESSMENT on POTENTIAL IMPACTS

Table 7 Risk Assessment on Potential Impacts

Hazard and Likelihood Risk Assessment and Corrective Control Measures								
Site: Peppertree Quarry					Responsible Person: Angus Shedden		Review Date: November 2019	
Name / ref of pollutant/ chemicals	Description of Hazard / Incident leading to hazard	Consequence	Likelihood	Risk	Factors which could increase risk	Residual Risk after implementation of controls. (See Table 1 for list of current controls).	Responsible person	Action date
Diesel	<p>Incident #1 Uncontrolled loss of Diesel or other hydrocarbon products that could result in material harm to the environment or human health</p> <p>eg. Catastrophic failure of above ground tanks or Loss of diesel greater than 20 000L outside bund during refuelling/fuelling</p>	1	1	L1	Dry, windy conditions (increase fire danger) or heavy rain/flood conditions (will increase potential for spill to spread to catchment drainage areas)	<p>Consequence: (Minor): Failure resulting in loss of all or substantial volume of tanks would be captured entirely by existing primary bund or secondary bund associated with the TLO area with no release to soil or water offsite.</p> <p>Likelihood: (Unlikely): The Diesel Tank is a self bundled double walled fuel tank. Due to the location of the tank, damage to the tank is unlikely to occur from external equipment. In addition tanks are maintained in good structural integrity with low risk of failure through corrosion. Drain valve, hoses and refueling equipment are maintained in good structural integrity with low risk of failure.</p> <p>Impact on neighbours¹ - Nil</p>	As per PIRMP action plan	When required

¹ If the incident may impact on neighbours then it will need to trigger the early warnings assessment and actions

<p>Airborne dust</p>	<p>Incident #2 Excessive airborne dust from stockpiled material, mobile plant or traffic areas or as a result of the failure of infrastructure causing material harm to the environment or significant impact to community.</p>	<p>1</p>	<p>1</p>	<p>L1</p>	<p>Dry, windy conditions (increase wind erosion and dust transport). Summer months with long periods of extended dry conditions.</p>	<p>Consequence: (Minor): Excessive dust from stockpile during high winds causing nuisance to surrounding area.</p> <p>Likelihood: (Unlikely): Stockpiles are maintained to a manageable level on a monthly basis. Use of water sprinklers and water cart onsite during windy periods. Extensive land reserves act as buffer land from surrounding communities. Surrounding land is rural with sparse distribution of neighbours. Weather forecasting system in place to ensure proactive management of possible windy days. Engineering assessments made on a regular basis to ensure infrastructure is structurally sound.</p> <p>Impact on neighbours¹ - yes</p>	<p>As per PIRMP action plan</p>	<p>When required</p>
<p>Sediment or sediment laden storm water</p>	<p>Incident #3 Uncontrolled release of sediment laden water from storage dams or failure of stockpiles or overburdens causing material harm to the environment</p>	<p>1</p>	<p>2</p>	<p>L2</p>	<p>Extended periods of rain increase the risk. Late Summer/early Autumn is typically the wettest part of the year on site.</p>	<p>Consequence: (moderate): Failure of one or more sediment dams, stockpiles or overburdens are likely to result in off-site impacts to water courses which would predominantly reduce water quality over a short period of time. As such, impact to the environment/human health is not considered to be significant.</p> <p>Likelihood: (unlikely): Dams and stockpiles / overburdens are frequently monitored and inspected for levels and integrity.</p> <p>Note: For PIRMP purposes overflow events during extreme wet weather will be reported under POEO Licence obligations and not Immediate Reporting.</p> <p>Impact on neighbours¹ - Nil</p>	<p>As per PIRMP action plan</p>	<p>When required</p>

Blast fume	Incident #4 Excessive blast fume from blasts causing significant and unexpected impact to the community	1	1	L1	Windy conditions will increase potential for blast fume to leave site. Excessive periods of sleeping shots (>7 days) loading into wet holes	Consequence: (minor): Blast fume would be localised and dispersed with high winds, of short duration and not cause long term impacts. Likelihood: (unlikely):Blast Management Plan in place to reduce the likelihood of shots being slept for extended periods of time and not loaded into wet holes. Impact on neighbours¹ - yes	As per PIRMP action plan	When required
Smoke	Incident #5 Excessive smoke as a result of infrastructure or equipment fire causing significant and unexpected impact to the community	1	1	L1	Windy conditions will increase potential for smoke to leave site.	Consequence: (minor) smoke would be visible but due to distance to the nearest receivers would have little impact Likelihood: (unlikely) fire fighting controls are in place in the operations and staff have been trained in fire fighting response. Maintenance schedule in place to ensure process and fire fighting equipment are in good working order. Emergency response training for Boral staff in place including fire response. Impact on neighbours¹ - yes	As per PIRMP action plan	When required

PART B

15. PART B: PIRMP RESPONSE ACTIONS and MAPS

Table 8: Incident #1 Diesel/hydrocarbon Spill Response Actions

Incident #1	<p>Uncontrolled loss of Diesel or other hydrocarbon products that could result in material harm to the environment or human health. See Figure 2</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) Who: Quarry Manager or delegate • Ensure bund/liner are capturing full volume of diesel Who: Warden • Ensure bund integrity is sound throughout the entire period of incident (i.e. periodic inspections) Who: Warden • Contact service provider (Caltex No. 1800033111 or Transpacific 02 96007185) to pump-out bund contents Who: Warden • Area to be restricted to Incident Response Personnel Who: Warden • Ensure spill kit available for any release from bund/liner Who: Warden • Prepare external bund with scalp material in event of tank bund failure or lack of capacity. Who: Warden • If any release from bund/liner onto unsealed soil/surface water - Environmental Consultants to be engaged to investigate and remediate contamination. Who: HSE • Repair/replace tanks Who: Warden • Refuel tanks Who: Warden • Inspect bund for ongoing serviceability Who: Warden
Alarm raising	<p>Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.</p>
Emergency Controller	<ul style="list-style-type: none"> • Emergency Controller: Who : Quarry Manager or delegate • Call service provider: Who : Quarry Manager or delegate • Spill Kit manager: Who: Onsite supervisor or delegate • Periodic inspections and update reporting of site and bund: Who: Onsite supervisor or delegate
Scale of incident	<p>Incident would be restricted to Diesel and oil storage areas with minimal external impact, however, potential for bund/liner overflow or failure may result in soil and surface water contamination that will require specialist investigation/remediation.</p>
Evacuate	<p>Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Department as part of attendance after immediate notification. No external evacuation likely to be required. Evacuation likely to be limited to internal relocations.</p>
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager or delegate to use contact sheet for all internal (Boral) contacts <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory:</p> <ul style="list-style-type: none"> • Nil
Rescuer / respondent + safety checks	<p>As per Site Emergency Plan or Fire Department as part of Immediate Reporting</p>
Rescue + First Aid	<p>As per Site Emergency Plan or Fire Department as part of Immediate Reporting</p>
Clean up and Waste disposal	<p>Service Provider to dispose of diesel and advise on required clean-up.</p>

Reporting and re-preparedness	See HSEQ MS: <ul style="list-style-type: none">• Incident Reporting, Investigation and Action Management Standard (GRP-HSEQ 3-02)• Review of PIRMP• Review of relevant Management plans• Reporting as per Conditions of Consent• Reporting as per EPL
--------------------------------------	---



Figure 2: Hydrocarbon Storage Area

Table 9: Incident #2: Excessive Airborne Dust Response Actions

<p>Incident #2</p>	<p>Excessive airborne dust from stockpiled material, mobile plant or traffic areas or as a result of the failure of infrastructure causing material harm to the environment or significant impact to community See Fig 3.</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Employees, Contractor/Visitor to notify site representative of issue immediately as per induction Who: Quarry Manager or delegate • Dust suppression activity to commence immediately on stockpiles via water cart or other means. Any operations associated with disturbing the stockpiles, such as driving and dumping on, to be minimized or ceased. Who: Warden • Preventative dust suppression measures to be employed for other areas of excessive airborne dust Who: Quarry Manager or delegate • Daily monitoring to be undertaken to assess weather and site conditions Who: Supervisor or delegate • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) Who: Quarry Manager or delegate
<p>Alarm raising</p>	<p>Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.</p>
<p>Emergency Controller</p>	<ul style="list-style-type: none"> • Emergency Controller: Who: Warden • Call service provider: Who: Warden <p>Periodic inspections and update reporting of site and dust suppression systems: Who: supervisor</p>
<p>Scale of incident</p>	<p>Incident would be localised to the area surrounding stockpile areas or other dust sources, with minimal external offsite impact.</p>
<p>Evacuate</p>	<p>Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Department as part of attendance after immediate notification. No external evacuation required however internal evacuation may be necessary.</p>
<p>Communications</p>	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager or delegate to use contact sheet for all internal (Boral) contacts <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory:</p> <ul style="list-style-type: none"> • Contact neighbors affected (will be dependent on wind direction). The environmental representative is to be consulted as to which neighbours will be affected by a particular wind direction.
<p>Rescuer / respondent + safety checks</p>	<p>As per Site Emergency Plan or Fire Department as part of Immediate Reporting</p>
<p>Rescue + First Aid</p>	<p>As per Site Emergency Plan or Fire Department as part of Immediate Reporting</p>
<p>Clean up and Waste disposal</p>	<p>All water carts to be placed on areas producing airborne dust. If necessary work must be ceased to control airborne dust. If required, excess dust to be cleared and disposed in filler dust cells as required</p>
<p>Reporting and re-preparedness</p>	<p>See HSEQ MS:</p> <ul style="list-style-type: none"> • Incident Reporting, Investigation and Action Management Standard (GRP-HSEQ 3-02) • Review of PIRMP

- | | |
|--|---|
| | <ul style="list-style-type: none">• Review of relevant Management plans• Reporting as per Conditions of Consent• Reporting as per EPL |
|--|---|



Figure 3: Potential Sources of Dust Pollution at Peppertree Quarry

Please note that pollution controls include operational response which is not included on the map. See Table 1 in Section 6 for more detail on pollution controls for Incident #2.

Table 10: Incident #3: Uncontrolled release of stormwater or materials Response Actions

<p>Incident #3</p>	<p>Uncontrolled release of sediment laden water from storage dams or failure of stockpiles or overburdens causing material harm to the environment See Fig #4</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) <i>Who: Quarry Manager or delegate</i> • Establish bunded area to retain any further potential discharges <i>Who: Warden</i> • Install pump to remove any remaining water or use wart cart if possible. <i>Who: Warden</i> • Ensure bund / dam wall or stockpile integrity is sound throughout the entire period of incident (i.e. periodic inspections) <i>Who: Warden</i> • Contact local neighbours if going to be inundated by rise of water <i>Who: Quarry Manager or delegate</i> • Area to be restricted to Incident Response Personnel <i>Who: Warden</i> • If any release from site onto unsealed soil/surface water - Environmental Consultants to be engaged to investigate and remediate contamination, if any <i>Who: HSE</i> • Water samples to be taken downstream as well as photos to understand and document potential for material harm <i>Who: HSE</i> • Contact local contractor to rebuild dams or rehabilitate areas immediately <i>Who: Warden</i>
<p>Alarm raising</p>	<p>Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.</p>
<p>Emergency Controller</p>	<ul style="list-style-type: none"> • Emergency Controller: <i>Who: Warden</i> • Call service provider: <i>Who: Warden</i> • Spill Kit manager <i>Who: Warden or delegate</i> • Periodic inspections and update reporting of site sediment dam structures, drainage and stability management of stockpiles and overburden: <i>Who; Onsite supervisor or delegate</i>
<p>Scale of incident</p>	<p>Catastrophic failure of one or more sediment dams, stockpiles or overburden are likely to result in off-site impacts to water courses which would predominantly reduce water quality over a short period of time. As such, impact to the environment/human health is not considered to be significant.</p>
<p>Evacuate</p>	<p>Only if flood potential exists. Quarry Manager and any advice provided by Fire Department as part of attendance after immediate notification. No external evacuation required however internal evacuation may be necessary</p>
<p>Communications</p>	<p>Internal:</p> <ul style="list-style-type: none"> • <i>Quarry Manager or delegate</i> to use contact sheet for all internal (Boral) contacts <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory:</p> <ul style="list-style-type: none"> • nil
<p>Rescuer / respondent + safety checks</p>	<p>As per Site Emergency Plan or Fire Department as part of Immediate Reporting</p>
<p>Rescue + First Aid</p>	<p>As per Site Emergency Plan or Fire Department as part of Immediate Reporting</p>
<p>Clean up and Waste disposal</p>	<p>Depending on severity of incident, consultants to be contacted to advise on required clean-up.</p>
<p>Reporting and re-preparedness</p>	<p>See HSEQ MS:</p> <ul style="list-style-type: none"> • Incident Reporting, Investigation and Action Management Standard (GRP-HSEQ 3-02) • Review of PIRMP • Review of relevant Management plans

- Reporting as per Conditions of Consent
- Reporting as per EPL



Figure 4: Overflow of Sediment Dams due to Flooding or Dam Failure

Please note that pollution controls include inspections and operational response which are not showed on these maps. See Table 1 in Section 6 for more details.

Table 11: Incident #4: Excessive Blast Fume Response Actions

Incident #4	<p>Excessive blast fume from blasts causing significant and unexpected impact to the community</p> <p>Actions Required:</p> <ul style="list-style-type: none"> Contractor/Visitor/Employee to notify site representative of issue immediately. (induction) Who: Quarry Manager or delegate Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) Who: Warden Area to be restricted to Incident Response Personnel Who: Warden If any release from site into surrounding community - Environmental Consultants to be engaged to investigate Who: HSE Call service provider, Orica, to provide advice and assistance in incident Who: Warden
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
Emergency Controller	<ul style="list-style-type: none"> Emergency Controller: Who: Warden Call service provider: Who: Quarry Manager or delegate Periodic inspections and update reporting of offsite impacts: Who: Onsite supervisor or delegate
Scale of incident	Incident would be localised to the area with no long term impact.
Evacuate	Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Department as part of attendance after immediate notification.
Communications	<p>Internal:</p> <ul style="list-style-type: none"> Quarry Manager or delegate to use contact sheet for all internal (Boral) contacts <p>External mandatory (reported by NSW HSE Regional Manager or Environment Manager NSW/ACT):</p> <ul style="list-style-type: none"> Immediate Reporting Contact Sheet to be used <p>External non-mandatory (with approval of quarry manager) :</p> <ul style="list-style-type: none"> Contact neighbors affected (will be dependent on wind direction). The environmental representative is to be consulted as to which neighbours will be affected by a particular wind direction.
Rescuer / respondent + safety checks	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Rescue + First Aid	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Clean up and Waste disposal	Service Provider to provide advice on clean up
Reporting and re-preparedness	<p>See HSEQ MS:</p> <ul style="list-style-type: none"> Incident Reporting, Investigation and Action Management Standard (GRP-HSEQ 3-02) Review of PIRMP Review of relevant Management plans Reporting as per Conditions of Consent Reporting as per EPL

Table 12: Incident #5: Excessive smoke as a result of infrastructure or equipment fire

Incident #11	<p>Excessive smoke as a result of infrastructure or equipment fire causing significant and unexpected impact to the community</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Employees, Contractor/Visitor to notify site representative of issue immediately. (induction) Who: Quarry Manager or delegate • Emergency response plan to be activated as necessary including firefighting if possible or calling Emergency Services Who: Warden • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) Who: Warden
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
Emergency Controller	<ul style="list-style-type: none"> • Shift Supervisor Who: Warden
Scale of incident	Incident would be localised to the area with minimal external impact. Impact would be visual due to smoke
Evacuate	Only if fire or explosion potential exists. Advice to be provided by Fire Dept as part of attendance after immediate notification. No external evacuation required unless potential for explosion or for expansion of the fire, or if wind has the potential to carry smoke to neighboring residences.
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager or delegate to use contact sheet for all internal (Boral) contacts <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory:</p> <ul style="list-style-type: none"> • Contact neighbors affected (will be dependent on wind direction). The environmental representative is to be consulted as to which neighbours will be affected by a particular wind direction.
Rescuer / respondent + safety checks	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Rescue + First Aid	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Clean up and Waste disposal	Burnt and damaged materials to be disposed externally and recycled if possible.
Reporting and re-preparedness	<p>See SOPs:</p> <ul style="list-style-type: none"> • Incident Notification SOP GRP-HSEQ-3-02Incident_Reporting_Investigation_and_Action_Management v3.2.pdf • Review of PIRMP • Review of relevant Management plan • Reporting as per Conditions of consent • Reporting as per EPL

16. PART B: POLLUTION INCIDENT NOTIFICATION LOG

Person undertaking notification (Name/Function):	
Date and time when first become aware of the incident:	
Incident type:	
Comments:	

Initial immediate notification log				
Appropriate Regulatory Authority	Time of call	Respondent's name/function	Approximate call duration	Comments
EPA				
DPE- Heritage and Environment				
Public Health Unit				
Fire and Rescue NSW				
Local Council				
Safework NSW				
Other: (including neighbours)				
Other: (including neighbours)				
Other: (including neighbours)				
Other: (including neighbours)				
Other:				
Summary of initial communication:				

Person undertaking notification (Name/Function):		
Date and time when additional information become available:		
Comments:		

Immediate notification of further pertinent information (if applicable)				
Appropriate Regulatory Authority	Time of call	Respondent's name/function	Approximate call duration	Comments
EPA				
DPE- Heritage and Environment				
Public Health Unit				
Fire and Rescue NSW				
Local Council				
WorkCover				
Other:				
Other:				
Summary of additional communication				