

## Pollution Incident Response Management Plan

## **BOMBO QUARRY**

Revision Eight: August 2020



## **DOCUMENT CONTROL SHEET**

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#### 1. PURPOSE

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

- Provide direction to the staff at Bombo Quarry in responding to pollution incidents at the Bombo 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 Shoalhaven City 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;
- Minimise and control the risk of a pollution incident at Bombo 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.

Bombo Quarry is now required to report 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 Bombo Quarry, to assist in the early response to and reporting of a pollution incident.

#### 5. POTENTIAL POLLUTING SUBSTANCES

The main hazards to human health and the environment at Bombo Quarry are included in the following table.

It is important to note that the Bombo Quarry is currently operated by Railcorp on behalf of Boral. As such Boral is not currently storing any potential polluting substances on the site. Any changes to the operation or management of the site will be updated in this PIRMP as required.

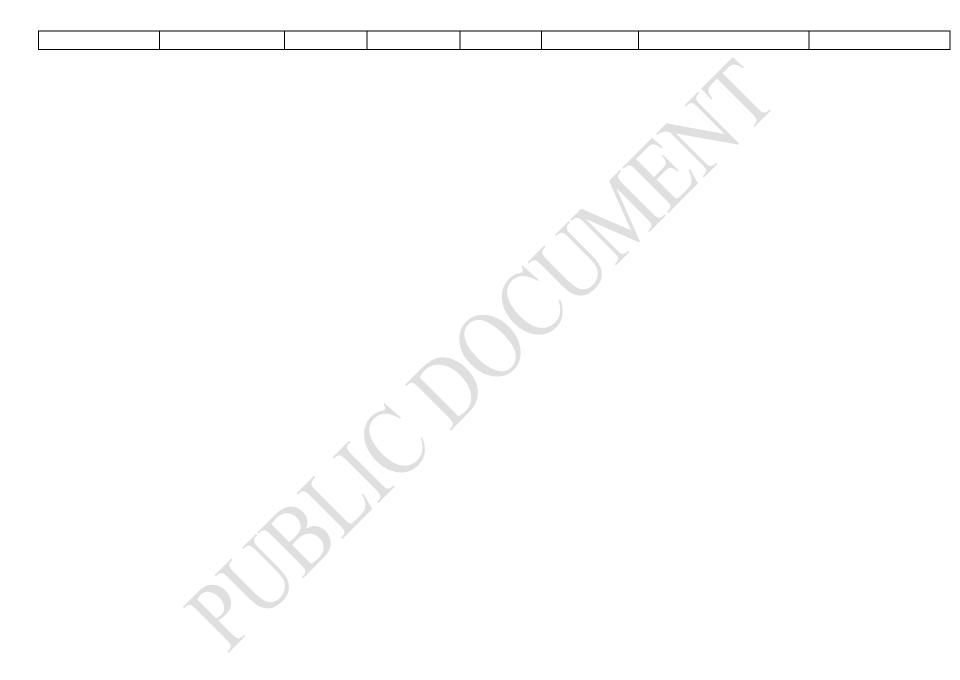
Site Name: Bombo Quarry						Responsible Person: Quarry Manager	<b>Date:</b> 20/8/2020
Name / description	Covered under Haz Chemicals/MSDS?	Amount stored	Location of storage	Map reference	Need for early warning <sup>1</sup>	Current controls	See Risk Ass & PIRMP Response Action (see Below)
CHEMICALS/FUI	ELS/LUBRICANTS (raw n	naterials and	products which	can cause po	llution)		
Diesel	Class 3	0 ltrs  Diesel Pump 900L	Diesel Storage Area Diesel Pump at Dam	Ref No #1 Ref No #11	N/A	<ul> <li>Bunding</li> <li>PMP</li> <li>Training</li> <li>Spill Kits</li> <li>SOP</li> <li>Inductions</li> <li>Fire Fighting Equipment</li> <li>Security</li> <li>Stop discharging</li> <li>Floating boom</li> </ul>	Incident #1-3
Precoat	Class 3	0 ltrs	Precoat Storage Area	Ref No *3	N/A	<ul> <li>Bunding</li> <li>PMP</li> <li>Training</li> <li>Spill Kits</li> <li>SOP</li> <li>Inductions</li> <li>Fire Fighting Equipment</li> <li>Security</li> </ul>	Incident #1-3

<sup>&</sup>lt;sup>1</sup> Early warnings relate to informing neighbours who may be affected by the emission of this substance. If this substance is of a type and quantity which may reach neighbours then early warning assessment of actions is required to be undertaken.

Oils/Solvents	Class 3	Packaged goods up to 0 ltrs Waste Oil Tank 0 ltrs Diesel Pump 60ltr	Oil Storage Shed at Workshop Diesel pump at Dam	Ref No #2	N/A	<ul> <li>Bunding</li> <li>PMP</li> <li>Training</li> <li>Flammable Cabinet</li> <li>Spill Kits</li> <li>Inductions</li> <li>Fire Fighting Equipment</li> <li>Security</li> </ul>	Incident #4 and 11
						<ul><li>Floating boom</li><li>Stop discharging</li></ul>	
Lubricants, Gases	Class 2	Variable	Maintenance Workshop	Ref No #2	N/A	<ul> <li>Fire Extinguishers</li> <li>Concrete Floor</li> <li>Enclosed Shed</li> <li>Containment</li> <li>Cages and</li> <li>Cabinets</li> </ul>	Incident #4
Oils/Fuel	Class 3	Variable	Plant and Equipment (Workshop area)	Ref No <sup>#</sup> 2	N/A	<ul> <li>PMP</li> <li>Training</li> <li>Spill Kits</li> <li>SOP</li> <li>Inductions</li> <li>Fire Fighting Equipment</li> <li>Security</li> </ul>	Incident #4
	ockpiles, silos, bulk so		T	T	T	T	
Aggregate Stockpiles	N/A	Variable	Dedicated on site	Ref No *8 & *9	N/A	<ul> <li>Water sprays</li> <li>Water Cart</li> <li>Maintain manageable levels</li> <li>Security</li> </ul>	Incident #5
<b>AQUEOUS</b> (eg dam	ns, wastewater tanks	other water	storage area)				

Water Storage Dam (Sediment)	N/A	Variable		Ref No #6	N/A	<ul> <li>Continue to use for dust suppression</li> <li>Ensure pumps are maintained through scheduled maintenance</li> <li>Discharge monitoring</li> </ul>	Incident #6
Storm Water Drains	N/A	Variable	Site	N/A	N/A	<ul> <li>Straw Bales</li> <li>Rubber and         <ul> <li>Earthen Berms</li> </ul> </li> <li>Audits and         <ul> <li>Inspections</li> </ul> </li> </ul>	Incident #6
SUBSTANCES IN PR	ROCESSES (substance	s which could	be emitted fro	m operationa	process i.e. tre	atment plants, vehicles etc)	
Name / description	Covered under Haz Chemicals/MSDS?	Amount stored	Location of storage	Map reference	Need for early warning <sup>2</sup>	Current controls	See Risk Ass & PIRMP Response Action (see Below)
Mobile Plant (onsite) BORAL	Class 3	Variable	Dedicated on site	N/A	N/A	<ul><li>Spill Kits</li><li>Pre start checks</li><li>PMP</li><li>Training</li></ul>	Incident #7
Mobile Plant Contractor/visitor	Class 3	Variable	Variable Locations	N/A	N/A	<ul><li>Spill Kits</li><li>Training</li><li>Inductions</li></ul>	Incident #8
Car Parking up to 20 vehicles	Class 3	Variable	Site Office	Ref No <sup>#</sup> 4	N/A	<ul><li>Spill Kits</li><li>Training</li></ul>	Incident #9
Traffic Areas (dust, chem. leaks & loss	Class 3	N/A	Dedicated on site	N/A	N/A	<ul><li>Training</li><li>Water cart</li></ul>	Incident #10

<sup>&</sup>lt;sup>2</sup> Early warnings relate to informing neighbours who may be affected by the emission of this substance. If this substance is of a type and quantity which may reach neighbours then early warning assessment of actions is required to be undertaken.



#### 6. ROLES AND RESPONSIBILITIES

Position	Responsibility
Employees and Contractors	Following the procedures outlined in the PIRMP and related documents  Immediately alerting Supervisor or Team Leader of any environmental incidents or near-misses.
Team Leaders / Front Line Supervisors	Following the procedures outlined in the PIRMP and related documents  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.  Conducting incident investigations.
Site / Operations Manager and/or Site Environmental Coordinator and/or Environment Manager	Authorisation of the PIRMP Administration, maintenance and implementation of the PIRMP  Assessing whether the incident has caused or threatens "material environmental harm" and, if so, immediately notifying all Appropriate Regulatory Authorities. Ensuring that investigations are undertaken to a level corresponding to the level of risk and impact.

#### 7. INTERNAL POLLUTION INCIDENT REPORTING

Any pollution incident satisfying the *material harm* threshold must be immediately reported to relevant statutory authorities by either the Site/Operations 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:

- 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
- At least one of the following BCM personnel must be contacted **immediately**:

Name	Function	Phone number	Mobile number
	Dunmore Sand & Soil Manager		
	Dunmore Sand & Soil Supervisor		
	Environmental Business Partner		
	Environment Manager – NSW/ACT		

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

- 4. Dunmore Sand and Soil Manager or in case of their unavailability one of the Senior Management personnel listed above, is to **immediately** notify all Appropriate Regulatory Authorities specified in Section 4.3.
- 5. 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.

6. 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 James Collings, David Bolton, Greg Price and Nicole Lawler.

#### 8. 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, is 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 (Site/Operations Manager or Environment Manager) 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 are expected to log the calls but early indications are that this is not always the case.

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.

#### 9. POLLUTION INCIDENT AUTHORITY CONTACT LIST

Government Authority - compulsory notifications	Emergency notification phone number
EPA – Environment Line	131 555
Fire and Rescue NSW (FRNSW)	1300 729 579
Kiama City Council	4232 0444 (Business hours) 0417 686 477 or 0409 917 092 (After hours emergencies)
Public Health Unit (South East Sydney / Illawarra AHS)- Wollongong SESI PHU	Emergencies – 4222 5000 Head Office- Wollongong – 1300 066 055
SafeWork NSW	131 050 Company ABN asked: 51 000 756 507
Government Authority - ring if relevant	Emergency notification phone number
Police & Ambulance	000
Roads and Maritime Services (road spills)	1300 308 349
NSW Office of Water	General – 8281 7777 Water Licensing/management – 1800 353 104
Bush Fire Control Officer – Illawarra Fire Control	4230 8200
Centre (Albion Park)	
Poisons Information Centre	131 126

Communication with the local community may also be undertaken depending on the circumstances of the pollution incident. Bombo 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
- Letter Box drops of incident information and site contacts to local residents impacted by the pollution incident
- The inclusion of incident details within the relevant Quarry Community Newsletter

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

#### 10. INCIDENT RESPONSE TRAINING

Bombo Quarry will implement the Pollution Incident Response Management Plan by training or providing information to relevant employees and contractors in relevant areas of the Plan.

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.

#### 11. PIRMP AUDIT

The objectives of an audit are to maintain compliance with this plan. Internal audits of this Plan will be undertaken every 3 years.

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

- Simulated environmental emergency, or
- Desktop simulations.

#### 12. 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

#### 12.1. 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

#### 12.2. TIME BASED

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

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

#### APPENDIX 1 – RISK ASSESSMENT on POTENTIAL IMPACTS

		Hazard	and Lik	celiho	od Risk Ass	sessment and Corrective Co	ontrol Measures		
Site:				Res	Responsible Person: Review Da				
Bombo Q	uarry			Qua	arry Mana	ger/Supervisor	20th August 2020		
Name / ref of pollutant/ chemicals	Description of Hazard / Incident leading to hazard	Conseq uence	Likely hood	Risk	Impact on neighbours <sup>3</sup>	Control Me Corrective Coverage under	easures Action	Responsible person	Action date
Diesel	Incident #1 Catastrophic failure of one/both above ground tanks	2	2	L	N/A	Consequence: (Minor): Localised and me habitat, species or natural environment.  Likelihood: (Unlikely): The consequence i the Industry. (Site not storing diesel)		As per PIRMP action plan	When required
	Incident #2 Loss of diesel outside bund during refuelling/fuelling operations.	2	2	L	N/A	Consequence: (Minor): Failure resulting i fuelling from hose, nozzle or plant/equip secondary bund or spill kill with minimal Likelihood: (Un likely): Site is not current	ment would be captured by a release to soil.	As per PIRMP action plan	When required
	Incident #3 Loss of fuel within bunded area with leaking or open drain valve	2	2	L	N/A	Consequence: (Minor): Failure resulting i tanks would be captured entirely by prim soil.  Likelihood: (Unlikely): Drain valve, hoses maintained in good structural integrity w is locked at all times.	n loss of all or substantial volume of nary bund with minimal release to and refuelling equipment are	As per PIRMP action plan	When required
	Incident #11 Loss of Diesel fuel from dam pump	2	2	L	N/A	Consequence: (Minor): Failure resulting i in or near discharging water dam from w or flooding.		As per PIRMP action plan	When required

<sup>&</sup>lt;sup>3</sup> If the incident may impact on neighbours then it will need to trigger the early warnings assessment and actions Bombo Quarry – PIRMP\_R8 Page 18 of 38

Oils/Solvents	Incident #4 Loss of oils solvents inside bund during delivery and or use	2	2	L	N/A	Likelihood: (Unlikely): Pontoon and structure to be inspected and of good quality and structurally sound. In the event of a major flood, the pump would be moved to higher ground before the weather event.  Consequence: (Minor): Failure resulting in loss of oils/solvents from packaged goods would be captured entirely by existing primary bund with no release to soil or water.  Likelihood: (Unlikely): Site is not currently storing oils or solvents.	As per PIRMP action plan	When required
	Incident #11 Loss of engine oil from dam pump	2	2	L	N/A	Consequence: (Minor): Failure resulting in loss of engine oil from diesel pump in or near discharging water dam from water inundation from either sinking or flooding.  Likelihood: (Unlikely): Pontoon and structure to be inspected and of good quality and structurally sound. In the event of a major flood, the pump would be moved to higher ground before the weather event.	As per PIRMP action plan	When required
Aggregate stockpiles	Incident #5. Excessive airbourne dust from stockpiled material	2	2	L	Y	Consequence: (Minor): Excessive dust from stockpile during high winds causing nuisance to surrounding area.  Likelihood: (Unlikely): Stockpiles are maintained to a manageable level on a monthly basis. Use of water sprinklers and water cart onsite during windy periods.	As per PIRMP action plan	When required
Sediment Dams	Incident #6 Catastrophic failure of one or more sediment dams releasing large volumes of water into on-site and off- site water courses (i.e creek).	3	1	L	N/A	Consequence: (moderate): Catastrophic failure of one or more sediment dams 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. Localised and measurable medium term impact on habitat, species or natural environment.  Likelihood: (Rare): Dams are frequently monitored and inspected for levels and integrity.  Note: For PIRMP purposes overflow events during extreme wet weather will be reported under POEO Licence obligations and not Immediate Reporting.	As per PIRMP action plan	When required
Mobile Plant	Incident *7 Mobile plant, hydraulic hose or fuel tank failure	2	2	L	N	Consequence: (minor): Failure from fuel tank or hydraulic hoses would be maintain to a small localised area on site.  Likelihood:(Unlikely): Boral is not operating any mobile plant at Bombo quarry at present – see below for Contractor.	As per PIRMP action plan	When required

Mobile plant/ Contractor, Visitor	Incident #8 Mobile plant, hydraulic hose or fuel tank failure	2	2	L	N	Consequence: (minor): Failure from fuel tank or hydraulic hoses would be maintain to a small localised area on site.  Likelihood: (unlikely): Hose or fuel tank failure from mobile plant would be minimal as prestart and regular maintenance programs are in place to capture and prevent such occurrences. Spills kits also maintain and available in various areas. Inductions for all contractors demonstrating their accountabilities and responsibilities for reporting environmental incidents.	As per PIRMP action plan	When required
Car Park	Incident #9 Ruptured fuel tank	2	2	L	N	Consequence: (minor): Failure from fuel tank or hydraulic hoses would be maintain to a small localised area on site.  Likelihood: (unlikely): Hose or fuel tank failure from employee or visitor car would be minimal. Car park area is fully sealed. Spill kits also maintain and available in various areas	As per PIRMP action plan	When required
Traffic areas (dust)	Incident # 10 Surface dust from mobile plant	2	2	L	Y	Consequence: (minor): Dust created form continuous mobile plant operations across site  Likelihood: (unlikely): Main areas watered with water cart in high wind conditions	As per PIRMP action plan	When required

## APPENDIX 2 – PIRMP RESPONSE ACTIONS

Incident #1	Catastrophia failure of an a /hath discal tanks
incident 1	Catastrophic failure of one/both diesel tanks.
	Actions Required:
	Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)
	Ensure bunds are capturing full volume of diesel
	<ul> <li>Ensure bund integrity is sound throughout the entire period of incident (i.e. periodic inspections)</li> </ul>
	<ul> <li>Contact service provider (Caltex No. 1800033111 or Transpacific 02 96007185) to pump-out bund contents</li> </ul>
	Area to be restricted to Incident Response Personnel
	Ensure spill kit available for any release from bund
	If any release from bund onto unsealed soil/surface water - Environmental Consultants to be engaged to investigate and remediate contamination.
	Repair/replace tanks
	Refuel tanks
	Inspect bund for ongoing serviceability
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
Emergency	Quarry Manager
Controller	Call service provider
	Spill Kit manager (Supervisor)
	Periodic inspections and update reporting of site and bund
Scale of incident	Incident would be restricted to Diesel/Precoast storage area with minimal external impact, however, potential for bund overflow or failure
	may result in soil and surface water contamination that will require specialist investigation/remediation.
Evacuate	Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Dept as part of attendance after immediate
	notification.
Communications	Internal:
	Quarry Manager
	Environment Manager
	External mandatory:
	Immediate Reporting Contact Sheet to be used
	External non-mandatory: N/A

Rescuer /	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
respondent +	
safety checks	
Rescue + First	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Aid	
Clean up and	Service Provider to dispose of diesel and advise on required clean-up.
Waste disposal	
Reporting and	See SOPs:
re-preparedness	Incident Reporting Investigation & Action Management SOP (GRP-HSEQ-3-02)
	Spill Management SOP (GRP-HSEQ-8-07)

Incident #2	Loss of Fuel due to filling and refueling from one/both diesel tanks.
	Actions Required:
	Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)
	Ensure bunds are capturing full volume of diesel
	<ul> <li>Ensure bund integrity is sound throughout the entire period of incident (i.e. periodic inspections)</li> </ul>
	Contact service provider (Caltex No. 1800033111 or Transpacific 02 96007185) to pump-out bund contents
	Area to be restricted to Incident Response Personnel
	Ensure spill kit available for any release from bund
	If any release from bund onto unsealed soil/surface water - Environmental Consultants to be engaged to investigate and remediate
	contamination.
	Repair/replace tanks
	Refuel tanks
	Inspect bund for ongoing serviceability
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
Emergency	Quarry Manager
Controller	Call service provider
	Spill Kit manager (Supervisor)
	Periodic inspections and update reporting of site and bund
Scale of incident	Incident would be restricted to Diesel/Precoat storage area with minimal external impact. However, potential for bund overflow or failure
	may result in soil and surface water contamination that will require specialist investigation/remediation.
Evacuate	Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Dept as part of attendance after immediate
	notification.

Communications	Internal:
	Quarry Manager
	Environment Manager &/or Enviro Representative
	External mandatory:
	Immediate Reporting Contact Sheet to be used
	External non-mandatory: N/A
Rescuer /	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
respondent + safety checks	
Rescue + First Aid	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Clean up and	Service Provider to dispose of diesel and advise on required clean-up.
Waste disposal	
Reporting and	See SOPs:
re-preparedness	Incident Reporting Investigation & Action Management SOP (GRP-HSEQ-3-02)
	Spill Management SOP (GRP-HSEQ-8-07)

Incident #3	Failure of drain valve on bund.  Actions Required:  Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)  Ensure bunds are capturing full volume of diesel  Ensure bund integrity is sound throughout the entire period of incident (i.e. periodic inspections)  Contact service provider (Caltex No. 1800033111 or Transpacific 02 96007185) to pump-out bund contents  Area to be restricted to Incident Response Personnel  Ensure spill kit available for any release from bund  If any release from bund onto unsealed soil/surface water - Environmental Consultants to be engaged to investigate and remediate contamination.  Repair/replace tanks  Refuel tanks
Alarm raising	Inspect bund for ongoing serviceability  Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.

Emergency	Quarry Manager
Controller	Call service provider
	Spill Kit manager (Supervisor)
	Periodic inspections and update reporting of site and bund
Scale of incident	Incident would be restricted to chemical storage area with minimal external impact. However, potential for bund overflow or failure may
	result in soil and surface water contamination that will require specialist investigation/remediation.
Evacuate	Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Dept as part of attendance after immediate notification.
Communications	Internal:
	Quarry Manager
	Environment Manager &/or Enviro Representative
	External mandatory:
	Immediate Reporting Contact Sheet to be used
	External non-mandatory: N/A
Rescuer /	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
respondent +	
safety checks	
Rescue + First	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Aid	
Clean up and	Service Provider to dispose of diesel and advise on required clean-up.
Waste disposal	
Reporting and	See SOPs:
re-preparedness	<ul> <li>Incident Reporting Investigation &amp; Action Management SOP (GRP-HSEQ-3-02)</li> </ul>
	Spill Management SOP (GRP-HSEQ-8-07)

Incident #4	Loss off oil/solvents, packaged goods.
meident 4	Actions Required:
	Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)
	Ensure bunds are capturing full volume of oil/solvents
	<ul> <li>Ensure bund integrity is sound throughout the entire period of incident (i.e. periodic inspections)</li> </ul>
	Contact service provider (Caltex No. 1800033111or Transpacific 02 96007185) to pump-out bund contents
	Area to be restricted to Incident Response Personnel
	·
	Ensure spill kit available for any release from bund  If any places from bund and a silvente and a silvent
	• If any release from bund onto unsealed soil/surface water - Environmental Consultants to be engaged to investigate and remediate contamination.
	Inspect bund for ongoing serviceability
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
Emergency	Quarry Manager
Controller	Call service provider
	Spill Kit manager (Supervisor)
	Periodic inspections and update reporting of site and bund
Scale of incident	Incident would be restricted to chemical storage area with minimal external impact. However, potential for bund overflow or failure may
	result in soil and surface water contamination that will require specialist investigation/remediation.
Evacuate	Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Dept as part of attendance after immediate
	notification.
Communications	Internal:
	Quarry Manager
	Environment Manager &/or Enviro Representative
	External mandatory:
	Immediate Reporting Contact Sheet to be used
	External non-mandatory: N/A
Rescuer /	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
respondent +	
safety checks	

Rescue + First	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Aid	
Clean up and	Service Provider to dispose of diesel, oil, grease and advise on required clean-up.
Waste disposal	
Reporting and	See SOPs:
re-preparedness	Incident Reporting Investigation & Action Management SOP (GRP-HSEQ-3-02)
	Spill Management SOP (GRP-HSEQ-8-07)

Incident #5	Excessive airbourne dust from stockpiled material.
	Actions Required:
	<ul> <li>Employees, Contractor/Visitor to notify site representative of issue immediately. (induction)</li> </ul>
	Daily monitoring to be undertaken to assess weather and site conditions
	<ul> <li>Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)</li> </ul>
	Dust suppression activity to commence immediately on stockpiles
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
Emergency	Quarry Manager
Controller	Call service provider
	Spill Kit manager (Supervisor)
	Periodic inspections and update reporting of site and bund
Scale of incident	Incident would be localised to the area surrounding stockpile area, with minimal external impact.
Evacuate	Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Dept as part of attendance after immediate notification.
Communications	Internal:
	Quarry Manager
	Environment Manager &/or Enviro Representative
	External mandatory:
	Immediate Reporting Contact Sheet to be used
	External non-mandatory: N/A

Rescuer /	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
respondent +	
safety checks	
Rescue + First	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Aid	
Clean up and	Service Provider to dispose of diesel and advise on required clean-up.
Waste disposal	
Reporting and	See SOPs:
re-preparedness	Incident Reporting Investigation & Action Management SOP (GRP-HSEQ-3-02)
	Air Management SOP (GRP-HSEQ-8-06)

Incident #6	Failure of one or more sediment dams.
	Actions Required:
	<ul> <li>Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)</li> </ul>
	<ul> <li>Ensure bund integrity is sound throughout the entire period of incident (i.e. periodic inspections)</li> </ul>
	Contact local neigbours if going to be in inundated by rise of water
	Area to be restricted to Incident Response Personnel
	<ul> <li>If any release from site onto unsealed soil/surface water - Environmental Consultants to be engaged to investigate and remediate contamination if any</li> </ul>
	Contact local contractor to rebuild dams immediately
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
Emergency	Quarry Manager
Controller	Call service provider
	Spill Kit manager (Supervisor)
	<ul> <li>Periodic inspections and update reporting of site and bund (Quarry Mgr)</li> </ul>
Scale of incident	Catastrophic failure of one or more sediment dams 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.
Evacuate	Only if flood potential exists. Quarry Manager and any advice provided by Fire Dept as part of attendance after immediate notification.

Communications	Internal:  • Quarry Manager  • Environment Manager &/or Enviro Representative
	External mandatory:  • Immediate Reporting Contact Sheet to be used  External non-mandatory: N/A
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	Consultants to be contacted to advise on required clean-up.
Reporting and re-preparedness	See SOPs:  Incident Reporting Investigation & Action Management SOP (GRP-HSEQ-3-02)  Water Management SOP (GRP-HSEQ-8-02)

Incident #7	Mobile plant, hydraulic hose or fuel tank failure.  Actions Required:  Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)  Area to be restricted to Incident Response Personnel  Ensure spill kit available for any release from mobile plant & equipment  If any release from mobile plant onto unsealed soil/surface water is investigated and remediated immediately  Call service provider to inspect plant & equipment for serviceability						
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.						
Emergency	Quarry Manager						
Controller	Call service provider						
	<ul> <li>Spill Kit manager (Supervisor)</li> <li>Periodic inspections and update reporting of site and bund (Matt Duff)</li> </ul>						

Scale of incident	Incident would be localised to the area with no external impact.					
Evacuate	Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Dept as part of attendance after immediate notification.					
Communications	Internal:					
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 dispose of diesel and advise on required clean-up.					
Reporting and re-preparedness	See SOPs:  Incident Reporting Investigation & Action Management SOP (GRP-HSEQ-3-02)  Spill Management SOP (GRP-HSEQ-8-07)					

Incident #8	Mobile plant, hydraulic hose or fuel tank failure from contractors / visitors.				
	Actions Required:				
	<ul> <li>Contractor/Visitor to notify site representative of issue immediately. (induction)</li> </ul>				
	<ul> <li>Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)</li> </ul>				
	Area to be restricted to Incident Response Personnel				
	Ensure spill kit available for any release from mobile plant & equipment				
	If any release from mobile plant onto unsealed soil/surface water is investigated and remediated immediately				
	Call service provider to inspect plant & equipment for serviceability				

Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.						
Emergency Controller	<ul> <li>Quarry Manager</li> <li>Call service provider</li> <li>Spill Kit manager (Supervisor)</li> <li>Periodic inspections and update reporting of site and bund</li> </ul>						
Scale of incident	Incident would be localised to the area with no external impact.						
Evacuate	Only if fire or explosion potential exists. Plant Manager and any advice provided by Fire Dept as part of attendance after immediate notification.						
Communications	Internal:  • Quarry Manager  • Environment Manager &/or Enviro Representative  External mandatory:  • Immediate Reporting Contact Sheet to be used  External non-mandatory: N/A						
Rescuer /	As per Site Emergency Plan or Fire Department as part of Immediate Reporting						
respondent +							
safety checks							
Rescue + First Aid	As per Site Emergency Plan or Fire Department as part of Immediate Reporting						
Clean up and	Service Provider to dispose of contaminates.						
Waste disposal	San Table 1 San						
Reporting and	See SOPs:						
re-preparedness	<ul> <li>Incident Reporting Investigation &amp; Action Management SOP (GRP-HSEQ-3-02)</li> <li>Spill Management SOP (GRP-HSEQ-8-07)</li> </ul>						

Incident #9	Car Park/ fuel tank failure. Actions Required:  Contractor/Visitor to notify site representative of issue immediately. (induction)  Area to be restricted to Incident Response Personnel  Ensure spill kit available for any release from mobile plant  If any release from mobile plant onto unsealed soil/surface water is investigated and remediated immediately						
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.						
Emergency Controller	<ul> <li>Quarry Manager</li> <li>Spill Kit manager (Supervisor)</li> </ul>						
Scale of incident	Incident would be localised to the area with no external impact.						
Evacuate	Only if fire or explosion potential exists. Plant Manager and any advice provided by Fire Dept as part of attendance after immediate notification.						
Communications	Internal:						
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 dispose of contaminate						

Reporting and	See SOPs:	
re-preparedness	<ul> <li>Incident Reporting Investigation &amp; Action Management SOP (GRP-HSEQ-3-02)</li> </ul>	
	Spill Management SOP (GRP-HSEQ-8-07)	

Incident #10	Dust from traffic areas.						
	Actions Required:						
	Employees, Contractor/Visitor to notify site representative of issue immediately. (induction)						
	Daily monitoring to be undertaken to capture whether and site conditions						
	Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)						
	Dust suppression activity to commence immediately on unsealed roads & dusty areas of site						
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.						
Emergency	Quarry Manager						
Controller	Quarry Manager to instruct site personnel						
Scale of incident	Incident would be localised to the area with minimal external impact						
Evacuate	Only if fire or potential exists. Plant Manager and any advice provided by Fire Dept as part of attendance after immediate notification.						
Communications	Internal:  • Quarry Manager						
	External mandatory:						
	Immediate Reporting Contact Sheet to be used if required						
	External non-mandatory: N/A						
Rescuer / respondent + safety checks	As per Site Emergency Plan or Fire Department as part of Immediate Reporting						

Rescue + First	As per Site Emergency Plan or Fire Department as part of Immediate Reporting					
Aid						
Clean up and	N/A					
Waste disposal						
Reporting and	See SOPs:					
re-preparedness	<ul> <li>Incident Reporting Investigation &amp; Action Management SOP (GRP-HSEQ-3-02)</li> <li>Air Management SOP (GRP-HSEQ-8-06)</li> </ul>					
	Incident No 11					
1.5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Loss of fuel/oil due to refueling diesel nump and or loss of diesel fuel or engine oil from demage/sinking of diesel nump if fleating in demonstration					

Incident #11	Loss of fuel/oil due to refueling diesel pump and or loss of diesel fuel or engine oil from damage/sinking of diesel pump if floating in dam or					
	inundation from flood. Actions Required:					
	<ul> <li>Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)</li> </ul>					
	Ensure all water discharge has stopped (valves shut off)					
	<ul> <li>Ensure bunds are capturing full volume of diesel. If contaminants enter the dam water, deploy floating boom kept at DSS Tabbitta Rd using the DSS small boat.</li> </ul>					
	<ul> <li>Ensure bund integrity is sound throughout the entire period of incident (i.e. periodic inspections)</li> </ul>					
	Area to be restricted to Incident Response Personnel					
	Ensure spill kit available for any release from bund					
	Use waste contractor suck truck to skim fuel/oil until removed from water/dam					
	<ul> <li>If any release from bund onto unsealed soil/surface water - Environmental Consultants to be engaged to investigate and remediate contamination.</li> </ul>					
	Repair/replace pump					
	Refuel tanks					
	Inspect bund for ongoing serviceability					
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.					
Emergency	Quarry Manager					
Controller	Spill Kit manager/floating boom (Supervisor)					
	<ul> <li>Periodic inspections and update reporting of site, bund and/or floating pump conditions.</li> </ul>					
Scale of incident	Incident would occur within the vicinity of the dam with the potential for small amounts of diesel to enter the dam resulting in soil and water					
	contamination which would require remediation.					
Evacuate	Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Dept as part of attendance after immediate notification.					
Communications	Internal:					

	Quarry Manager
	Environment Manager &/or Enviro Representative
	Estaval mandatanu
	External mandatory:
	Immediate Reporting Contact Sheet to be used
	External non-mandatory: N/A
Rescuer /	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
respondent +	
safety checks	
Rescue + First	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Aid	
Clean up and	Service Provider to dispose of diesel and advise on required clean-up.
Waste disposal	
Reporting and	See SOPs:
re-preparedness	Incident Reporting Investigation & Action Management SOP (GRP-HSEQ-3-02)
	Spill Management SOP (GRP-HSEQ-8-07)

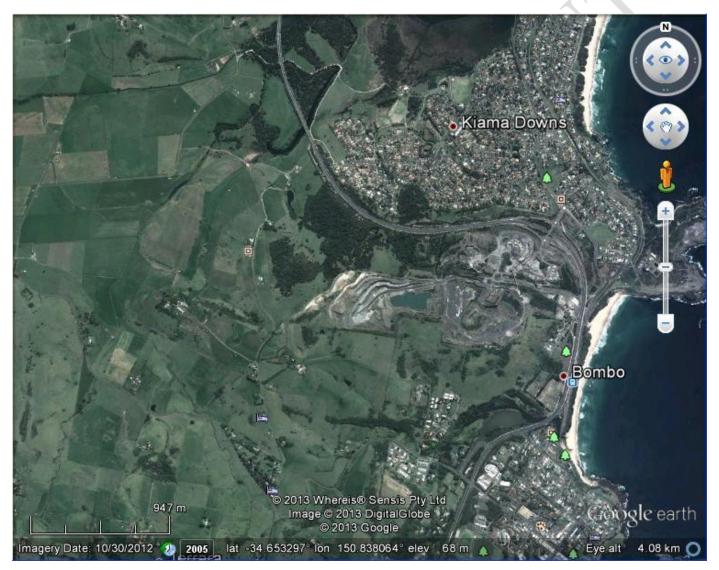
## APPENDIX 3 – BOMBO QUARRY LOCATION MAP



## APPENDIX 4 – BOMBO QUARRY REFERENCE MAP



## APPENDIX 5 – BOMBO QUARRY – MAP OF AFFECTED AREAS



## APPENDIX 6 - POLLUTION INCIDENT NOTIFICATION LOG

Person undertaking (Name/Function):	notification			
Date and time wher incident:	n first become a	ware of the		
Incident type:				
Comments:				
Initial immediate n	otification log			
Appropriate Regulatory Authority	Time of call	Respondent's name/function	Approximate call duration	Comments
EPA			A	
Public Health Unit				
Fire and Rescue NSW				
Local Council				
WorkCover				
Other:				
Other:				
Summary of initial of	communication:			

Person undertaking i	notification (Na	me/Function):		
Date and time when become available:	additional info	rmation		
Comments:				
Immediate notificat	ion of further p	ertinent informatio	n (if applicable)	
Appropriate Regulatory Authority	Time of call	Respondent's name/function	Approximate call duration	Comments
EPA				
Public Health Unit				
Fire and Rescue NSW				,
Local Council				
WorkCover				
Other:				
Other:				
Summary of addition	nal communicat	ion		
<b>y</b>				