

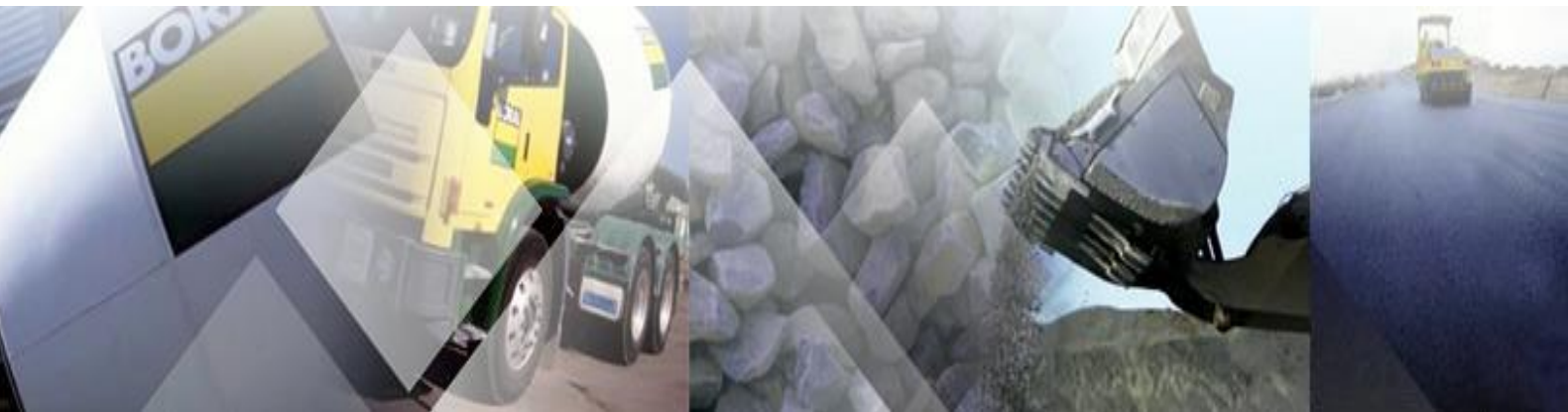


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Pollution Incident Response Management Plan

EMU PLAINS QUARRY



Version Thirteen: 12th June 2020

DOCUMENT CONTROL SHEET

Rev.	Date	Prepared by	Approved By	Revision Details
01	20 Aug 2012	Rod Johnson	Rod Johnson	Document Created
02	06 Feb 2012	Patrick Boyce	Rod Johnson	Site visit and review
03	30 Apr 2013	Patrick Boyce	Rod Johnson	Re-format of document
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05	02 Mar 2016	Chris Smith	Nathan Jeffery	Update Version Updated contacts
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Current Rev.	Date Implemented	PIRMP Test Schedule	Date for Next Review
13	12 June 2020	12 Month	June 2021

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1. PURPOSE

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

- Provide direction to the staff at Emu Plains Quarry in responding to pollution incidents at the Emu Plains 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 Penrith 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 Emu Plains 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.

Emu Plains Quarry is 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 Emu Plains 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 Emu Plains Quarry are included in the following table.

LIST OF POLLUTING SUBSTANCE STORAGES/USES AT SITE: INITIAL ASSESSMENT (all Chemicals listed in this sheet are to be subjected to a risk assessment)							
Site Name: Emu Plains Quarry					Responsible Person: Quarry Manager/Supervisor		Date: 22/06/2020
Name / description	Covered under Hazardous Chemicals/MSDS?	Amount stored	Location of storage	Map reference	Need for early warning ¹	Current controls	See Risk Ass. & PIRMP Response Action (see Below)
CHEMICALS/FUELS/LUBRICANTS (raw materials and products which can cause pollution)							
Diesel	Class 3	Up to 40,000 ltrs (second tank has been shut off)	Diesel Storage Area	Ref No #1	N/A	<ul style="list-style-type: none"> • Bunding • Spill trays • PMP • Training • Spill Kits • SOPs • Inductions • Fire Fighting Equipment • Security 	Incident #1-2
Oils/Solvents	Class 3	Packaged goods up to 1,000 ltrs	Oil Storage areas at Workshop and container	Ref No #2	N/A	<ul style="list-style-type: none"> • Bunding • PMP • Training • Flammable Cabinet • Spill Kits • Inductions • Fire Fighting Equipment • Security 	Incident #4
Gases	Class 2	N/A	Gas storage cage; Workshop	Ref No #3 and #2	N/A	<ul style="list-style-type: none"> • Restricted access • Fire Extinguishers • Concrete Floor 	Incident #4

¹ 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.

						<ul style="list-style-type: none"> • Containment Cages and Cabinets • Signage 	
Oils/Fuel	Class 3	Variable	Plant and Equipment (Workshop area)	Ref No #3	N/A	<ul style="list-style-type: none"> • PMP • Training • Spill Kits • SOP • Inductions • Fire Fighting Equipment • Security 	Incident #4
MATERIALS (eg stockpiles, silos, bulk solids etc)							
Product Stockpiles	N/A	Variable	Dedicated on site	Ref No #4 & #5	N/A	<ul style="list-style-type: none"> • Wash Plant • Water Cart • Maintain manageable levels • Security 	Incident #5
Cement	N/A	1 silo with a capacity of 52T	Stabilization Plant	Ref No #8	Yes	<ul style="list-style-type: none"> • High level alarm • Auto closure • Pressure relief valve • Filtered air ducted • Preventative maintenance 	Incident #11
AQUEOUS (eg dams, wastewater tanks, other water storage area)							
Sediment Dams	N/A	Variable	Quarry	Ref No #6	N/A	<ul style="list-style-type: none"> • Ensure pumps are maintained through scheduled maintenance • Discharge monitoring 	Incident #6
Storm Water Drains	N/A	Variable	Site boundary	N/A	N/A	<ul style="list-style-type: none"> • Earthen Berms 	Incident #6

						<ul style="list-style-type: none"> • Audits and Inspections 	
SUBSTANCES IN PROCESSES (substances which could be emitted from operational process i.e. treatment plants, vehicles etc)							
Name / description	Covered under Hazardous Chemicals/MSDS?	Amount stored	Location of storage	Map reference	Need for early warning²	Current controls	See Risk Ass & PIRMP Response Action (see Below)
Mobile Plant (Boral Vehicles)	Class 3	Up to 8 MP on site	Dedicated on site	N/A	N/A	<ul style="list-style-type: none"> • Spill Kits • Pre start checks • PMP • Training 	Incident #7
Mobile Plant (Contractor or Visitor)	Class 3	Variable	Variable Locations	N/A	N/A	<ul style="list-style-type: none"> • Spill Kits • Training • Inductions 	Incident #8
Car Parking up to 20 vehicles	Class 3	Variable	Site Office	Ref No #7	N/A	<ul style="list-style-type: none"> • Spill Kits • Training 	Incident #9
Traffic Areas (dust, chem. leaks & loss)	Class 3	N/A	Dedicated on site	N/A	N/A	<ul style="list-style-type: none"> • Training • SOPs • Water cart • Spill Kits • Traffic management • Speed limits 	Incident #10

² 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
<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</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>Conducting incident investigations.</p>
<i>Site / Operations Manager and/or Site Environmental Coordinator and/or Environment Manager</i>	<p>Authorisation of the PIRMP Administration, maintenance and implementation of the PIRMP</p> <p>Assessing whether the incident has caused or threatens “material environmental harm” and, if so, immediately notifying all Appropriate Regulatory Authorities.</p> <p>Ensuring that investigations are undertaken to a level corresponding to the level of risk and impact.</p>

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:

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**:

Name	Function	Phone number	Mobile number
Philip Paterson	Quarry Manager	02 4735 2998	0401 894 227
Angus Shedden	Operations Manager NSW/ACT	02 9604 9101	0401 894 513
Shoanne Labowitch	Environment Manager – NSW/ACT	02 9033 5019	0401 895 827
Craig Stafford	HSE Advisor NSW/ACT	02 4016 3711	0401 894 805

4. Quarry Manager or in case of his 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 Jason Sweeney, David Bolton, Greg Price and Scott Carter.

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, 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 (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) <i>(Only if haven't already called '000')</i>	1300 729 579
Penrith City Council	4732 7777
Public Health Unit (Penrith) – Sydney West AHS	HealthLink (24 hr): 1800 063 635 Head Office- Penrith: 4734 2022
WorkCover Authority of NSW	131050 Company ABN if asked: 51 000 187 002
Government Authority - ring if relevant	Emergency notification phone number
Police & Ambulance	000
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 (power line emergencies)	13 10 03

Communication with the local community may also be undertaken depending on the circumstances of the pollution incident. Emu Plains 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

Emu Plains 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

Emu Plains 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 Likelihood Risk Assessment and Corrective Control Measures								
Site: Emu Plains Quarry			Responsible Person: Quarry Manager/Supervisor			Date Reviewed: 12 th June 2020		
Name / ref of pollutant/ chemicals	Description of Hazard / Incident leading to hazard	Consequence	Likelihood	Risk	Impact on neighbours ³	Control Measures Corrective Action Coverage under other Plans	Responsible person	Action date
Diesel	Incident #1 Catastrophic failure of above ground diesel tanks resulting in diesel escaping from bunded area, causing material harm to the environment	1	1	L1	N/A	Consequence: (minor): Failure resulting in loss of all or substantial volume of tanks would be captured entirely by existing primary bund with no release to soil or water. Likelihood: (unlikely): Tanks are kept within a large bund with concrete walls. Due to location of tank damage to tanks is unlikely to occur from external equipment. In addition tanks are maintained in good structural integrity with low risk of failure through corrosion.	As per PIRMP action plan	When required
	Incident #2 Loss of diesel outside bund during refuelling/fuelling operations resulting in material harm to the environment.	1	2	L2	N/A	Consequence: (minor): Failure resulting in loss/leakage from fuelling or re-fuelling from hose, nozzle or plant/equipment would be captured by a self bunded fill point or spill kill with minimal release to soil. Likelihood: (likely): Due to location within the tank structure an incident while re-fuelling and fuelling is likely to occur on some occasions. Hoses and refuelling equipment are maintained with low risk of failure. All mobile plant refuel on a contained concrete pad with a sump, and the spill trays are used at the tanker transfer points.	As per PIRMP action plan	When required

³ If the incident may impact on neighbours then it will need to trigger the early warnings assessment and actions

	Incident #3 Significant loss of fuel from fuel cart during refilling mobile equipment causing material harm to the environment	2	3	M3	N/A	Consequence: (Minor): Failure resulting in loss of all or substantial volume of tanks would be contained to small area of site, with equipment located away from water courses. Likelihood: (Unlikely): Tank, hoses and refuelling equipment are maintained in good condition. Equipment is inspected during pre-start any all faults or concerns raised.	As per PIRMP action plan	When required
Oils/Solvents	Incident #4 Loss of oils solvents inside bund during delivery and or use causing material harm to the environment	1	1	L1	N/A	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): Due to location within the bund, spillage during delivery and use is unlikely to occur. In addition hoses and decanting equipment are maintained in good structural integrity with low risk of failure.	As per PIRMP action plan	When required
Product stockpiles	Incident #5. Excessive airborne dust from stockpiled material causing material harm to the environment or significant impact to community	1	3	M3	Y	Consequence: (minor): Excessive dust from stockpile during high winds causing nuisance to surrounding area. Stockpiles are maintained to a manageable level. Use of water cart onsite during windy periods. No sensitive neighbours are adjacent to plant area. Likelihood: (highly likely): Airborne dust from high winds is likely to occur at some time. On site water cart is used to wet down stockpiles on high risk days.	As per PIRMP action plan	When required
Sediment Dams	Incident #6 Flood causing overflow or catastrophic failure of one or more sediment dams releasing large volumes of water into on-site and off-site water courses (i.e creek).	2	1	L2	N/A	Consequence: (moderate): Flood event causing overflow or 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. Likelihood: (unlikely): Dams are frequently monitored and inspected for levels and integrity. Note: For PIRMP purposes overflow events (excluding flood overflows) 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	1	1	L1	N	Consequence: (minor): Failure from fuel tank or hydraulic hoses would be maintain to a small localised area on site.	As per PIRMP action plan	When required

	fuel tank failure causing material harm to the environment					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.		
Mobile plant/ Contractor, Visitor	Incident #8 Mobile plant, hydraulic hose or fuel tank failure causing material harm to the environment	1	1	L1	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 causing material harm to the environment	1	1	L1	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 Dust from mobile plant causing material harm to the environment or significant impact to community	1	2	L2	Y	Consequence: (minor): Minor dust is created form the continuous mobile plant operations across the site. No sensitive neighbours. Likelihood: (likely): Main trafficable areas watered with water cart in high wind conditions.	As per PIRMP action plan	When required
Cement silos	Incident #11 Overfilling or failure of cement silo during cement delivery and/or daily operations.	3	1	L(3)	Yes	Consequence: (Moderate): Silo malfunction on a windy day will result in cement powder crossing the site boundary. Cement is highly alkaline and will have a negative effect natural water courses and vegetation. Likelihood: (Rare): Fail-safe controls on the cement silos are serviced every 6 months.	As per PIRMP action plan	When required

APPENDIX 2.

PIRMP RESPONSE ACTIONS

Incident No 1

Incident #1	<p>Catastrophic failure of above ground diesel tanks resulting in diesel escaping from bunded area, causing material harm to the environment</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) if risk of Diesel escaping bunded area • 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 Toxfree 1300 869 373) 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 <p>Inspect bund for ongoing serviceability</p>
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"> • Quarry Manager • Call service provider (Quarry Manager) • Spill Kit manager (Supervisor) • Periodic inspections and update reporting of site and bund (Quarry Manager)
Scale of incident	<p>Incident would be restricted to Diesel storage area with minimal external impact. If bund 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.</p>
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager • Rod Wallace – Enviro Representative <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory: N/A</p>

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 <ul style="list-style-type: none"> • GRP-HSEQ-3-02 Incident Reporting Investigation and Action Management • GRP-HSEQ-8-07 Spill Management

Incident No 2

Incident #2	<p>Loss of diesel outside bund during refuelling/fuelling operations resulting in material harm to the environment.</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • 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 Toxfree 1300 869 373) 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 <p>Inspect bund for ongoing serviceability</p>
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"> • Quarry Manager • Call service provider (Quarry Manager) • Spill Kit manager (Supervisor) • Periodic inspections and update reporting of site and bund (Quarry Manager)
Scale of incident	Incident would be restricted to Diesel 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	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager • Rod Wallace – Enviro Representative • <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory: N/A</p>
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	Service Provider to dispose of diesel and advise on required clean-up.

Waste disposal	
Reporting and re-preparedness	See <ul style="list-style-type: none">• GRP-HSEQ-3-02 Incident Reporting Investigation and Action Management• GRP-HSEQ-8-07 Spill Management

Incident No 3

Incident #3	<p style="color: red;">Significant loss of fuel from fuel cart during refilling mobile equipment causing material harm to the environment</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Immediately stop leak or spill if possible • Contain spill with spill kit or sand/material • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) • Ensure spill is contained and not migrating across site (i.e. periodic inspections) • Area to be restricted to Incident Response Personnel • If any release onto unsealed soil/surface water - Environmental Consultants to be engaged to investigate and remediate contamination. • Repair/replace tanks, hoses, nozzles • Refuel tanks <p>Inspect fuel cart for ongoing serviceability</p>
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"> • Quarry Manager • Call service provider (Quarry Manager) • Spill Kit manager (Supervisor) • Periodic inspections and update reporting of site and bund (Quarry Manager)
Scale of incident	Incident would be restricted to isolated area of incident. Fuel cart holds a maximum of 2000L of Diesel storage area with minimal external impact. Incidents resulting in soil and surface water contamination 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	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager • Rod Wallace – Enviro Representative <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory: N/A</p>
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	Service Provider to dispose of diesel and advise on required clean-up.

Waste disposal	
Reporting and re-preparedness	See <ul style="list-style-type: none">• GRP-HSEQ-3-02 Incident Reporting Investigation and Action Management• GRP-HSEQ-8-07 Spill Management

Incident No 4

Incident #4	<p>Loss of oils solvents inside bund during delivery and or use causing material harm to the environment</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) • Ensure bunds are capturing full volume of oil/solvents • Ensure bund integrity is sound throughout the entire period of incident (i.e. periodic inspections) • Contact service provider (Caltex No. 1800033111 or Toxfree 1300 869 373) 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. • 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 Controller	<ul style="list-style-type: none"> • Quarry Manager • Call service provider (Quarry Manager) • Spill Kit manager (Supervisor) • Periodic inspections and update reporting of site and bund (Quarry Manager)
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	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager Rod Wallace – Enviro Representative <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory: N/A</p>
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, oil, grease and advise on required clean-up.

Reporting and re-preparedness	See <ul style="list-style-type: none">• GRP-HSEQ-3-02 Incident Reporting Investigation and Action Management• GRP-HSEQ-8-07 Spill Management
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Incident No 5

Incident #5	<p style="color: red;">Excessive airborne dust from stockpiled material causing material harm to the environment or significant impact to community</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Employees, Contractor/Visitor to notify site representative of issue immediately • Monitoring to be undertaken to assess weather and site conditions • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) • Dust suppression activity to commence immediately on stockpiles (water cart) • Weather forecast should be assessed to determine future dust suppression requirements
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"> • Quarry Manager • Call service provider (Quarry Manager) • Periodic inspections of surrounding area and update reporting of site (Quarry Manager)
Scale of incident	Incident would be localised to the area surrounding stockpile area, with minimal external impact.
Evacuate	Only if risk of health impacts to staff or on advise from emergency controller of health department
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager • Rod Wallace – Enviro Representative <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory: N/A</p>
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	Inspect surrounding areas after event for localised clean up.
Reporting and re-preparedness	<p>See</p> <ul style="list-style-type: none"> • GRP-HSEQ-3-02 Incident Reporting Investigation and Action Management • GRP-HSEQ-8-06 Air Management

Incident No 6

Incident #6	<p style="color: red;">Flood causing overflow or failure of one or more sediment dams containing process/storm water</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) • Cease any water that is pumping into burst receiving water body • Contact local neighbours if going to be in inundated by rise of water • Area to be restricted to Incident Response Personnel • Contact local contractor to rebuild dams immediately or repair after flood
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"> • Quarry Manager • Call service provider (Quarry Manager) • Spill Kit manager (Supervisor) • Periodic inspections and update reporting of site and bund (Quarry Manager)
Scale of incident	Flood event causing overflow or 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 Department as part of attendance after immediate notification.
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager • Rod Wallace – Enviro Representative <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory: N/A</p>
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	<p>See</p> <ul style="list-style-type: none"> • GRP-HSEQ-3-02 Incident Reporting Investigation and Action Management • GRP-HSEQ-8-07 Spill Management

Incident No 7

Incident #7	<p>Mobile plant, hydraulic hose or fuel tank failure causing material harm to the environment.</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • 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 Controller	<ul style="list-style-type: none"> • Quarry Manager • Call service provider (Quarry Manager) • Spill Kit manager (Supervisor) • Periodic inspections and update reporting of site and bund (Quarry Manager)
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 Department as part of attendance after immediate notification.
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager • Rod Wallace – Enviro Representative <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory: N/A</p>
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	<p>See</p> <ul style="list-style-type: none"> • GRP-HSEQ-3-02 Incident Reporting Investigation and Action Management • GRP-HSEQ-8-07 Spill Management

Incident No 8

Incident #8	<p style="color: red;">Mobile plant, hydraulic hose or fuel tank failure from contractors / visitors causing material harm to the environment.</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Contractor/Visitor to notify site representative of issue immediately • 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 Controller	<ul style="list-style-type: none"> • Quarry Manager • Call service provider (Quarry Manager) • Spill Kit manager (Supervisor) • Periodic inspections and update reporting of site and bund (Quarry Manager)
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 Department as part of attendance after immediate notification.
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager • Rod Wallace – Enviro Representative <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory: N/A</p>
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 contaminates.
Reporting and re-preparedness	<p>See</p> <ul style="list-style-type: none"> • GRP-HSEQ-3-02 Incident Reporting Investigation and Action Management • GRP-HSEQ-8-07 Spill Management

Incident No 9

Incident #9	<p style="color: red;">Car Park/ fuel tank failure causing material harm to the environment.</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Contractor/Visitor to notify site representative of issue immediately • 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 style="list-style-type: none"> • Quarry Manager • Spill Kit manager (Supervisor)
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	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager • Rod Wallace – Enviro Representative <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory: N/A</p>
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 re-preparedness	<p>See</p> <ul style="list-style-type: none"> • GRP-HSEQ-3-02 Incident Reporting Investigation and Action Management • GRP-HSEQ-8-07 Spill Management

Incident No 10

Incident #10	<p style="color: red;">Dust from mobile plant causing material harm to the environment or significant impact to community.</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Employees, Contractor/Visitor to notify site representative of issue immediately. • 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 plant and equipment & dusty areas of site
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"> • Quarry Manager • Quarry Manager to instruct site personnel
Scale of incident	Incident would be localised to the area with minimal external impact.
Evacuate	Only if risk of health impacts to staff or on advice from emergency controller of health department
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager • Rod Wallace – Enviro Representative <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used if required <p>External non-mandatory: N/A</p>
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	N/A
Reporting and re-preparedness	<p>See</p> <ul style="list-style-type: none"> • GRP-HSEQ-3-02 Incident Reporting Investigation and Action Management • GRP-HSEQ-8-06 Air Management

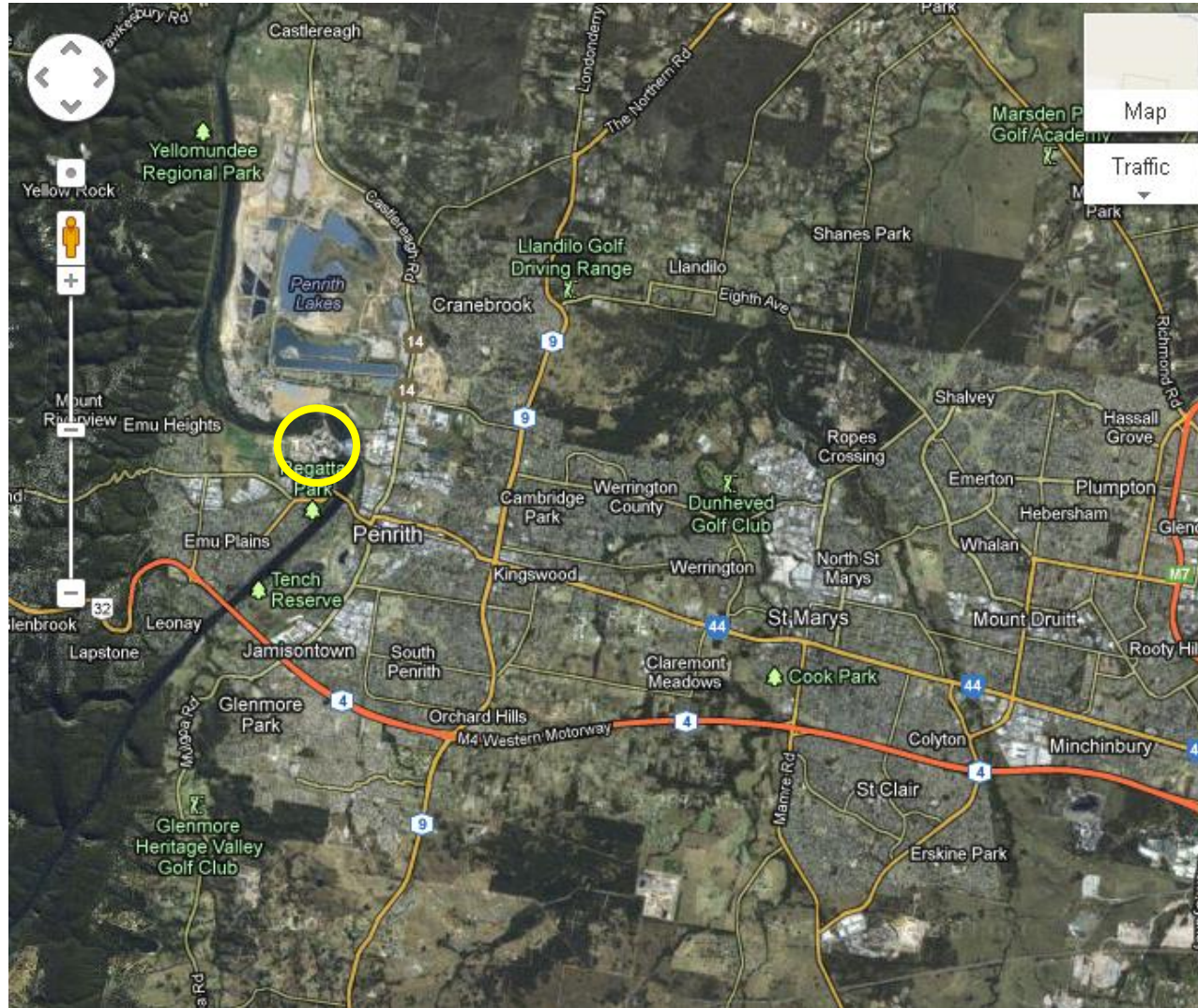
Incident No 11

Incident #11	<p>Overfilling or failure of cement silo during cement delivery and/or daily operations.</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • If event is during cement delivery, immediately cease activity • Employees, Contractor/Visitor to notify site representative of issue immediately. (induction) • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)
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"> • David Simpson - Operations Manager • Adrian Preece – Site Manager • Call service provider (Ops Manager) • Spill Kit manager (Supervisor) • Periodic inspections and update reporting of site and bund (Operations Manager)
Scale of incident	A Minor spillage while filling the silo would be localised to the area surrounding Stabilization Plant, with minimal external impact. Catastrophic failure of silo could result in cement dust being blown across site boundary depending on wind force and direction.
Evacuate	<ul style="list-style-type: none"> • Only if fire or explosion potential exists. Manager and any advice provided by Fire Dept as part of attendance after immediate notification.
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager • Rod Wallace – Enviro Representative <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used if required <p>External non-mandatory: N/A</p>
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	Site Management to decide appropriate clean up method and disposal.
Reporting and re-preparedness	<p>See SOPs:</p> <ul style="list-style-type: none"> • GRP-HSEQ-3-02 Incident Reporting Investigation and Action Management

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| | <ul style="list-style-type: none">• GRP-HSEQ-8-07 Spill Management |
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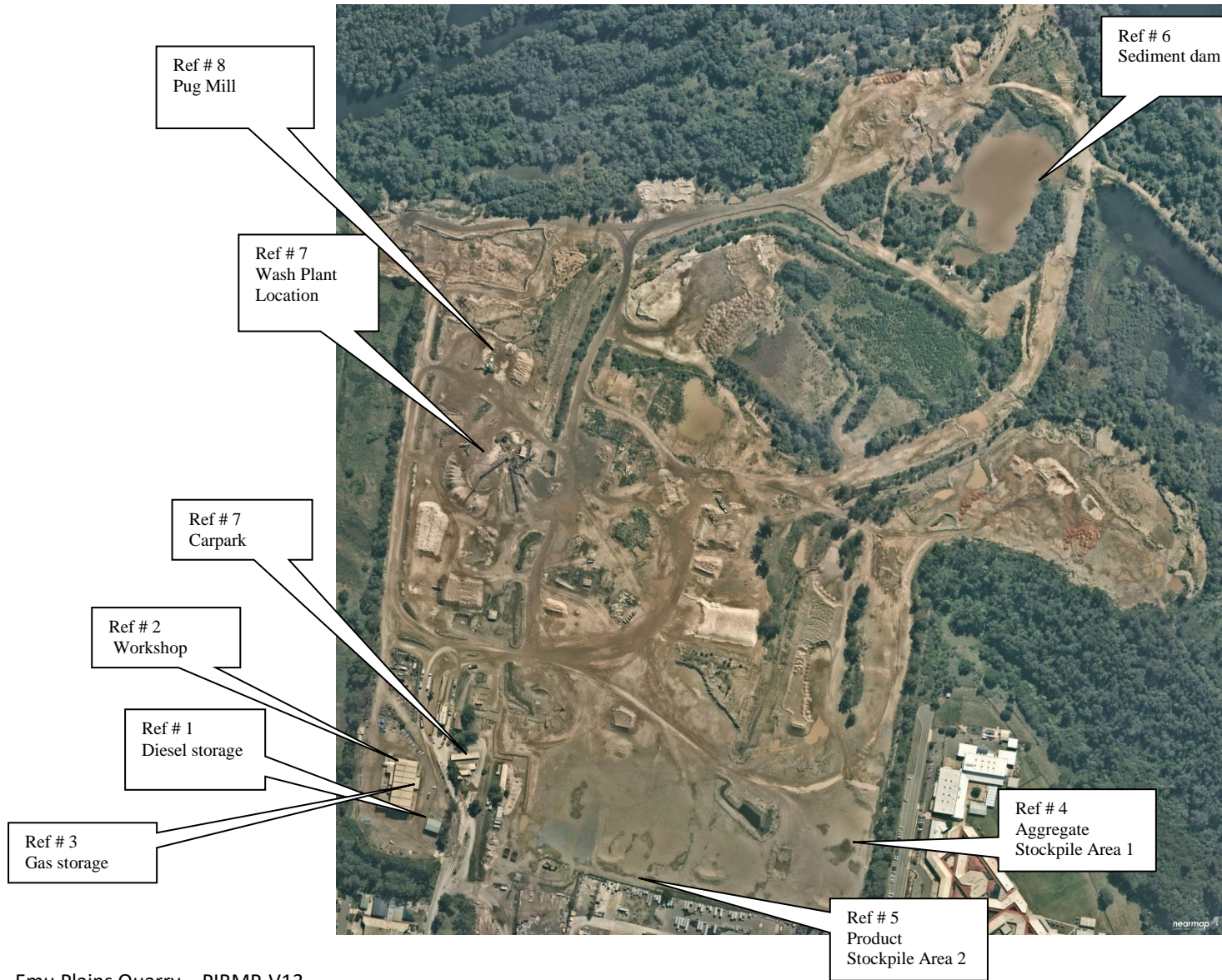
APPENDIX 3.

EMU PLAINS QUARRY LOCATION MAP



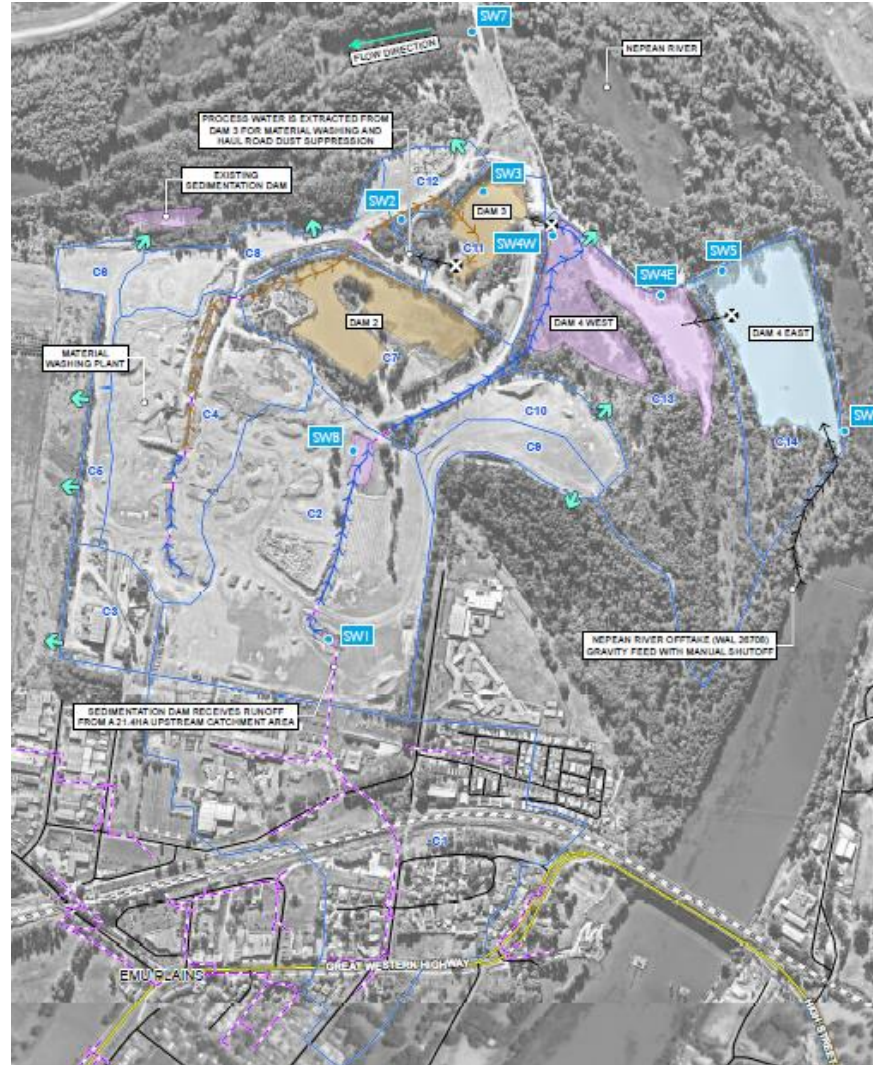
APPENDIX 4.

EMU PLAINS QUARRY REFERENCE MAP



APPENDIX 5.

EMU PLAINS QUARRY – MAP OF AFFECTED AREAS DAMS AND WATER FLOW



APPENDIX 6.

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				
Public Health Unit				
Fire and Rescue NSW				
Local Council				
WorkCover				
Other:				
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				
Public Health Unit				
Fire and Rescue NSW				
Local Council				
WorkCover				
Other:				
Other:				
Summary of additional communication				