

2024 Teven Quarry Pollution Incident Response Management Plan



Teven Quarry Pollution Incident Response Management Plan (PIRMP)

Revision History

| Revision Number | Date | Checked by | Issued by |
|-----------------|----------------|---|------------------|
| 1 - 3 | Nov 2016 | Daniel Lidbetter – NSW/ACT Planning & Environment Coordinator | Daniel Lidbetter |
| 4 | Oct 2017 | Amy Nelson - NSW/ACT Planning & Environment Coordinator Garth Stacey – Quarry Manager | Amy Nelson |
| 5 | Aug 2018 | Alana White – Senior Environment and Community Liaison Garth Stacey – Quarry Manager | Alana White |
| 6 | Sept 2019 | Hema Vignaraja – SHE Reporting Analyst Shilpa Shashi - NSW/ACT Planning & Environment Coordinator | Hema Vignaraja |
| 7 | Sep 2020 | Shilpa Shashi - NSW/ACT Planning & Environment Coordinator | Shilpa Shashi |
| 8 | Sep 2021 | Shilpa Shashi - NSW/ACT Planning & Environment Coordinator Matt Kelly – Quarry Manager | Shilpa Shashi |
| 9 | August 2022 | Shilpa Shashi - NSW/ACT Planning & Environment Coordinator Matt Kelly – Quarry Manager | Shilpa Shashi |

| | | | |
|----|-----------------|--|--------------|
| 10 | October 2024 | Dozie Egeonu- NSW/ACT Environment Manager Matt Kelly – Quarry Manager | Dozie Egeonu |
| 11 | October 2024 | Dozie Egeonu- NSW/ACT Environment Manager Matt Kelly – Quarry Manager | Dozie Egeonu |

Table of Contents

| | |
|--|----------|
| 1. Purpose | 1 |
| 2. Scope | 3 |
| 3. Definitions | 3 |
| 4. Associated Documentation | 4 |
| 5. Responsibility | 4 |
| 6. Record Retention | 4 |
| 7. Procedure | 4 |
| 7.1 Environmental Impact and Hazard Register | 5 |
| 7.2 Pollutant and Safety Equipment Information | 16 |
| 7.3 Emergency Response Map | 30 |
| 7.4 PIRMP Review | 32 |
| 7.5 Typical Holcim Response process | 32 |
| 7.6 Communication Strategy | 35 |
| 7.7 Staff Training | 37 |
| 7.8 Continual Improvement | 37 |

Appendices

| | |
|---|--|
| A | Emergency Contact Details |
| B | Pollution Incident Response Test Checklist |
| C | Community Notification Strategy |

Glossary of Acronyms

PIDS- Pollution Information Data Sheet

PPE- Personal Protective Equipment

SDS- Safety Data Sheets

PEOA- Protection of the Environment Operations Act 1997

1. Purpose

The purpose of this document is to detail the pollution incident response management plan for the Teven Quarry, to comply with Section 5.7A of the Protection of the Environment Operations (POEO) Act:

Protection of the Environment Operations Act 1997 No 156

Part 5.7A Duty to prepare and implement pollution incident response management plans

153A Duty of licence holder to prepare pollution incident response management plan

The holder of an environment protection licence must prepare a pollution incident response management plan that complies with this Part in relation to the activity to which the licence relates.

Maximum penalty:

- (a) in the case of a corporation—\$1,000,000 and, in the case of a continuing offence, a further penalty of \$120,000 for each day the offence continues, or*
- (b) in the case of an individual—\$250,000 and, in the case of a continuing offence, a further penalty of \$60,000 for each day the offence continues.*

153B EPA may direct other persons to prepare pollution incident response management plan

- (1) The EPA may, in accordance with the regulations, require the occupier of premises at which industry is carried out to prepare a pollution incident response management plan that complies with this Part in relation to activities at the premises.*
- (2) A person must not fail to comply with such a requirement.*

Maximum penalty:

- (a) in the case of a corporation—\$1,000,000 and, in the case of a continuing offence, a further penalty of \$120,000 for each day the offence continues, or*
 - (b) in the case of an individual—\$250,000 and, in the case of a continuing offence, a further penalty of \$60,000 for each day the offence continues.*
- (3) The regulations may make provision for or with respect to:*
- (a) the class or classes of premises, or industries carried out at premises, that may be the subject of a requirement to prepare a pollution incident response management plan, and*

- (b) *the circumstances in which some or all premises within those classes may be the subject of a requirement to prepare a pollution incident response management plan.*

153C Information to be included in plan

A pollution incident response management plan must be in the form required by the regulations and must include the following:

- (a) *the procedures to be followed by the holder of the relevant environment protection licence, or the occupier of the relevant premises, in notifying a pollution incident to:*
 - (i) *the owners or occupiers of premises in the vicinity of the premises to which the environment protection licence or the direction under section 153B relates, and*
 - (ii) *the local authority for the area in which the premises to which the environment protection licence or the direction under section 153B relates are located and any area affected, or potentially affected, by the pollution, and*
 - (iii) *any persons or authorities required to be notified by Part 5.7,*
- (b) *a detailed description of the action to be taken, immediately after a pollution incident, by the holder of the relevant environment protection licence, or the occupier of the relevant premises, to reduce or control any pollution*
- (c) *the procedures to be followed for co-ordinating, with the authorities or persons that have been notified, any action taken in combating the pollution caused by the incident and, in particular, the persons through whom all communications are to be made,*
- (d) *any other matter required by the regulations.*

153D Keeping of plan

A person who is required to prepare a pollution incident response management plan under this Part must ensure that it is kept at the premises to which the relevant environment protection licence relates, or where the relevant activity takes place, and is made available in accordance with the regulations.

Maximum penalty:

- (a) *in the case of a corporation—\$1,000,000 and, in the case of a continuing offence, a further penalty of \$120,000 for each day the offence continues, or*
- (b) *in the case of an individual—\$250,000 and, in the case of a continuing offence, a further penalty of \$60,000 for each day the offence continues.*

153E Testing of plan

A person who is required to prepare a pollution incident response management plan under this Part must ensure that it is tested in accordance with the regulations.

Maximum penalty:

- (a) in the case of a corporation—\$2,000,000 and, in the case of a continuing offence, a further penalty of \$240,000 for each day the offence continues, or*
- (b) in the case of an individual—\$500,000 and, in the case of a continuing offence, a further penalty of \$120,000 for each day the offence continues.*

153F Implementation of plan

If a pollution incident occurs in the course of an activity so that material harm to the environment (within the meaning of section 147) is caused or threatened, the person carrying on the activity must immediately implement any pollution incident response management plan in relation to the activity required by this Part.

Maximum penalty:

- (a) in the case of a corporation—\$2,000,000 and, in the case of a continuing offence, a further penalty of \$240,000 for each day the offence continues, or*
- (b) in the case of an individual—\$500,000 and, in the case of a continuing offence, a further penalty of \$120,000 for each day the offence continues.*

2. Scope

The scope of this management plan includes:

Pollution Incident Response Management Plan (PIRMP) for environmental pollution generated at the Teven;

3. Definitions

Pollution Incident - 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.

Material Harm - (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), It does not matter that harm to the environment is caused only in the premises where the pollution incident occurs, and

Loss - 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.

4. Associated Documentation

- Protection of the Environment Operations Act 1997
- Protection of the Environment (General) Amendment (Pollution Incident Response Management Plans) Regulation 2012
- Appendix A: Emergency Contact Details
- Appendix B: Pollution Incident Response Test Checklist
- Appendix C: Community Notification Strategy

5. Responsibility

The following personnel are responsible for the PIRMP;

- 1) Activating the plans and managing the response: **Matt Kelly - Quarry Manager**
- 2) Notifying and coordinating relevant authorities: **Matt Kelly - Quarry Manager**
- 3) Implementation and management of this document: **Shilpa Shashi - NSW/ACT Planning & Environment Coordinator**
- 4) Annual review and testing of PIRMP: **Matt Kelly - Quarry Manager**

6. Record Retention

A copy of all Quarry pollution incident response records will be retained on site in accordance with SHE guideline 1.4 – Administrative and Legal Requirements. A copy will also be saved electronically on google drive in the 'Site PIRMPs Final' folder and linked with the site's SHE schedule.

Records must be made available to EPA officers and any person responsible for the PIRMP.

7. Procedure

The following section outlines the management procedures for pollution incident response management. The protocol is split into three sections:

- 1) Key environmental hazards and mitigation measures
- 2) Pollutant and Safety equipment information and management of Pollution Incidents
- 3) Emergency Response Maps

7.1 Environmental Impact and Hazard Register

In order to effectively plan for a potential pollution event, a register of environmental hazards has been created. Each hazard has been assessed in accordance with the Holcim SHE Risk Assessment tool (see Table 1 below).

The hazards have been grouped according to the area of environmental impact. By identifying these hazards ahead of time, mitigation measures can be identified and implemented through site procedures to minimise the risk of a pollution event occurring (table 2 below).

Table 1: Holcim SHE Risk Score Matrix

| Step 1 - Consider the Consequence | | | | | |
|--|---|--|--|---|--|
| What are the consequences of the most reasonable worst case scenario considering a credible failure of existing controls? | | | | | |
| Consequence | Disaster | Severe | Serious | Significant | Minor |
| Environment On Site & Off Site | Major event, unconfined impact, severe permanent damage with low likelihood of recovery. | Significant permanent damage; reversible damage with recovery time of years; high potential for prosecution | Minor permanent damage; temporary damage that is widespread or that has moderate impact | Damage that is near source confined, temporary and minor | No measurable damage to environment |
| Compliance With Legal and Other Requirements | Blatant or serious breach of legal requirement, leading to operation being suspended or severely reduced. Prosecution expected. | Breach of external requirement (license, legislation, regulation, contract etc.) with high potential for prosecution and/or high impact. | Non-compliance with external requirement with moderate potential for impact. | Repeated non-compliance with internal procedure, non-compliance with external requirement with low potential impact | Minor non-compliance with internal procedures. |
| Community Perception and Reputation | Significant adverse media attention (state or national level), loss of reputation or work nationally or across product groups. | Prosecution, significant impacts on social license to operate, loss of reputation or ability to secure work across product groups. | Local adverse media attention, loss of reputation or ability to secure work in local area, complaints that result in changes to external requirements. | Multiple community complaints or complaints that require changes to internal operating procedures. | Community complaint resolved with no changes to existing operating procedures. |

Note: Temporary environmental damage has a duration of up to approximately one week to rectify

| Step 2 - Consider the Likelihood | | | | | |
|---|---|--|--|--|---|
| What is the likelihood that the proposed consequence will occur with a credible failure of existing controls? | | | | | |
| Likelihood | Certain | Likely | Possible | Unlikely | Rare |
| Description | Event that is expected to occur on multiple occasions | Event that is likely to occur at least once | Event that may occur | Event that is unlikely to occur | Event that may occur only in exceptional circumstances |
| Frequency | Event is likely to occur more than twice a year. | Event is likely to occur once or twice a year. | Event is likely to occur more than once or twice in a 10 year period | Event is likely to occur once or twice in a 10 year period | Event is likely to occur once or twice in a 100 year period |
| Step 3 - Determine Risk Rating from the Risk Matrix | | | | | |
| Likelihood | Consequences | | | | |
| | Disaster | Severe | Serious | Significant | Minor |
| Certain | High | High | High | Medium | Medium |
| Likely | High | High | Medium | Medium | Low |
| Possible | High | Medium | Medium | Low | Low |
| Unlikely | Medium | Medium | Low | Low | Low |

| | | | | | |
|------|--------|-----|-----|-----|-----|
| Rare | Medium | Low | Low | Low | Low |
|------|--------|-----|-----|-----|-----|

Table 2: Holcim Quarry Environmental Impact and Hazard Register

| Key Environmental Hazards | | Risk | | | Mitigation Measures | Revised Risk | | |
|---------------------------|--------------------------|--------------------------------------|---------------------------------|----------------------------|---|--------------------------------------|---|-------------|
| | | L | C | R | | L | C | R |
| Air Quality | | | | | | | | |
| 1 | Excessive dust emissions | P o s s i b l e | S e r i o u s | M e d i u m | <ul style="list-style-type: none">Complete monitoring & assess results quarterlyReview results & monitoring program quarterlyWater carts/sprayingMinimise disturbed areasOperate within a controlled wet production process (dredging operation)Progressively rehabilitate disturbed areasRestrict works during periods of high windDust minimisation trainingMaintenance of dust control equipment | U n l i k e l y | S i g n i f i c a n t | L o w |
| 2 | Health issues off site | R a r e | S e v e r e | L o w | <ul style="list-style-type: none">As per (1)Complaints hot lineIssue monitoring resultsCommunicate construction activities to neighbours plus potential for dust | R a r e | S e r i o u s | L o w |

| | | | | | | | | |
|--------------------|---|--------------------------------------|---|-------------|---|------------------|---|-------------|
| 3 | Equipment exhaust emissions exceed limits | U n l i k e l y | S i g n i f i c a n t | L o w | <ul style="list-style-type: none"> Inspect equipment engine emissions regularly All equipment is serviced and maintained to OEM requirements Excessive equipment emissions to trigger out of service procedures | R a r e | S i g n i f i c a n t | L o w |
| Groundwater | | | | | | | | |
| 1 | Groundwater contamination | U n l i k e l y | S e r i o u s | L o w | <ul style="list-style-type: none"> Implement Monitoring and response plan Review monitoring results quarterly & action as necessary Ensure storage, handling and transport of dangerous goods are conducted in accordance with Australian Standards Identify, classify, quantify & appropriately store hazardous waste Develop & implement oil & fuel spillage controls Ensure hazardous waste is minimised Licensed contractors to remove hazardous waste from site Keep records of all hazardous waste movements Develop & implement oil & fuel spillage controls Implement bunding to appropriate areas Ensure adequate spill kits are available on site including adequate training Minimise hazardous waste storage quantities on site | R a r e | S e r i o u s | L o w |
| 2 | Lowering of groundwater table | R a r e | S e r i o | L o w | <ul style="list-style-type: none"> Monitor & report on ground water levels Comply with Water Management Plan water balance | R a r e | S i g n i | L o w |

| | | | | | | | | |
|----------------------|----------------------------------|--------------------------------------|---------------------------------|----------------------------|--|--------------------------------------|---------------------------------|-------------|
| | | | u s | | | | f i c a n t | |
| Surface Water | | | | | | | | |
| 1 | Discharge of sediment | P o s s i b l e | S e r i o u s | M e d i u m | <ul style="list-style-type: none"> Develop & implement Water Management Plan Implement Monitoring Program Review monitoring results quarterly & action as necessary Develop & implement Surface & Groundwater Response Plan Develop & implement Erosion & Sediment Control Plan Implement dust control procedures as per AIR | U n l i k e l y | S e r i o u s | L o w |
| 2 | Discharge of hazardous materials | R a r e | S e v e r e | L o w | <ul style="list-style-type: none"> As per Surface Water (1) Ensure storage, handling and transport of dangerous goods are conducted in accordance with relevant Australian Standard Review monitoring results quarterly & action as necessary Identify classify, quantify & appropriately store hazardous waste Develop & implement oil & fuel spillage controls Implement bunding to appropriate areas Ensure adequate spill kits are available on site including adequate training for effective use Minimise hazardous waste storage quantities on site Appropriate location of hazardous materials storage areas to prevent off-site discharges Level 3 butterfly valve Dewatering pump | R a r e | S e r i o u s | L o w |

| | | | | | | | | |
|-----------------|--|--------------------------------------|---------------------------------|-------------|---|--------------------------------------|---------------------------------|-------------|
| | | | | | | | | |
| Blasting | | | | | | | | |
| 1 | Blasting impacts | U n l i k e l y | S e r i o u s | L o w | <ul style="list-style-type: none"> Develop & implement Blast Monitoring Program Develop & implement Blast Management Plan Detailed design & predictive modelling for each blast Monitoring of each blast with feedback to model Establish blast monitoring reference locations Notify sensitive receivers in accordance with site blasting plans Establish & advertise blasting hotline Drill accuracy is monitored via bore tracking procedures Establish site blasting procedures & train personnel including sirens etc Clear site to safe areas prior to blasts Clear off-site areas prior to blasts | U n l i k e l y | S e r i o u s | L o w |
| 2 | Vibration / airblast damage to off-site structures | R a r e | S e v e r e | L o w | <ul style="list-style-type: none"> As per 1 Monitor sensitive areas & review blast design as necessary inspect sensitive areas pre & post all blasts | R a r e | S e r i o u s | L o w |
| Ecology | | | | | | | | |

| | | | | | | | | |
|---|---|--------------------------------------|---------------------------------|----------------------------|---|--------------------------------------|---|-------------|
| 1 | Damage to local flora | P o s s i b l e | S e r i o u s | M e d i u m | <ul style="list-style-type: none"> ▪ Develop & implement Biodiversity Action Plan ▪ Put in adequate physical protection measures including signage ▪ Monitor & report on site flora health regularly ▪ Suitable training regarding flora protection ▪ Removal of stock from sensitive areas ▪ Implement bushfire hazard reduction tasks ▪ Removal of feral animals from sensitive areas ▪ Noxious weed control in sensitive areas | U n l i k e l y | S i g n i f i c a n t | L o w |
| 2 | Damage to site fauna | U n l i k e l y | S e r i o u s | R a r e | <ul style="list-style-type: none"> ▪ As per Air Quality (1) ▪ Information re local WIRES for distressed or injured fauna | R a r e | S e r i o u s | L o w |
| 3 | Dust pollution onto site sensitive ecological areas | U n l i k e l y | S e v e r e | M e d i u m | <ul style="list-style-type: none"> ▪ As per (1) ▪ Comply with site Management Plans ▪ Regular review of riparian areas (as per Management Plans) | U n l i k e l y | S i g n i f i c a n t | L o w |

| Land | | | | | | | | |
|------|---|--------------------------------------|----------------------------|----------------------------|--|---|---|-------------|
| 1 | Spill of liquid fuel whilst in storage | P o s s i b l e | S e v e r e | M e d i u m | <ul style="list-style-type: none">Fuels stored according to Holcim's bunding requirements.Measures in place to ensure spills do not leave site boundaries ie diverting flow away from boundaries, stormwater drains.Bunding subject to regular inspection and maintenance | S i g n i f i c a n t | U n l i k e l y | L o w |
| 2 | Spill during delivery of fuel to mobile equipment | P o s s i b l e | S e v e r e | M e d i u m | <ul style="list-style-type: none">Breakaway couplings installed on mobile fuel delivery vehicles.Drivers stay with vehicle during refuellingEmergency spill kits located on fuel delivery vehicles.Spill response equipment is regularly inspected and maintainedMobile refuelling takes place in the pitDrivers trained in spill response procedures.Refuelling takes place in designated refuelling areas. | U n l i k e l y | S i g n i f i c a n t | L o w |
| 3 | Spill during delivery of fuel to storage tank | P o s s i b l e | S e v e r e | M e d i u m | <ul style="list-style-type: none">Supplier's fuel transfer procedure is knownFuel transfer is supervised against suppliers procedure | U n l i k e | S i g n i f i | L o w |

| | | | | | | | | | |
|--|--|--------|--|--|--|--|--------|------------------|--|
| | | l e | | | | | l y | c a n t | |
|--|--|--------|--|--|--|--|--------|------------------|--|

7.2 Pollutant and Safety Equipment Information

Legislative requirements under the Protection of the Environment Operations (POEO) Act dictate that the site is to provide information for all pollutants that are used and stored on the site. This information is required as it assists personnel responsible for coordinating spill responses to more effectively manage spills.

This information must be presented as a manifest detailing the pollutants stored at the site, the location of these storage areas, and the safety equipment to be made available at these areas. A Pollution Information Data Sheet (PIDS) has been prepared that includes the following information for each pollutant. Refer to table 3 below

- The intended use for the pollutant
- How the pollutant is stored
- SDS information
- Safety equipment or other devices that are used to minimise the risks to human health or the environment and to contain or control a pollution incident
- PPE needed to safely manage a spill of the pollutant
- Procedure for cleaning up a spill of the pollutant.

In order to ensure the currency and reliability of the information in the PIDS, the information should be reviewed and updated on a monthly basis.

Table 3: Pollutant Information Data Sheet and clean-up methods

| <i>Diesel and Hydraulic Oils</i> | |
|---|--|
| Storage Location | Workshop Area, oil store and pit diesel tank |
| Current SDS Location | Located in supervisor office |
| Emission control equipment | Sand, earth, vermiculite |
| PPE | PVC gloves, safety glasses, goggles |
| Quantity stored on site | <p><u>Diesel</u></p> <p>4400L workshop fuel tank</p> <p>2200L pit fuel tank</p> <p>800L small mobile fuel trailer</p> <p><u>Hydraulic Oil</u></p> <p>4000L in IBCs in oil store</p> |
| Emergency Response | <p>Assess</p> <p>Quickly assess the spill:</p> <ul style="list-style-type: none"> Decide whether to handle the situation at a site level or if you require emergency services involvement. Advise your team of the hazard Investigate source of the spill, isolating the cause of the spill if this can be completed safely <p>Ensure Personal Safety</p> <ul style="list-style-type: none"> First priority is to ensure safety of yourself and others in the area. Consider evacuation and isolation based on risk assessment following site emergency response plan Do you or others require PPE Check Safety Data Sheet for the substance and utilise PPE according to specifications <p>Secure</p> <ul style="list-style-type: none"> Secure the area around the spill by positioning barricades to prevent unintended access If hazards to public or site personnel exists post a guard immediately <p>Contain</p> |

| | |
|--------------------------|---|
| | <ul style="list-style-type: none"> • Conduct a risk assessment to determine best approach for preventing any further diesel or lubricants from spilling • If the spill has entered a site dam, contain the spill quickly by surrounding with suitable barrier equipment from emergency spill kit • Move other containers from that area to a bunded area <p>Prevent</p> <ul style="list-style-type: none"> • If spill is contained within one of the site dams, prevent spillage from discharging from the site by: <ul style="list-style-type: none"> o shutting off all process water pumps o shutting off the butterfly valve at the discharge channel on level 3 o blocking off the drain that runs from the sediment dam to the discharge channel on level 3 o pumping water from sediment dam to drop cut sump dam <p>Absorb</p> <ul style="list-style-type: none"> • Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth from spill kits based on location of the spill • If spill onto land place material into a container for collection by a licensed contractor • If spill into water, recover product from the surface and pump to a suitable oily waste container for disposal • Use spark-proof tools and explosive proof equipment. <p>Disposal</p> <ul style="list-style-type: none"> • Contaminated absorbent material may pose the same hazard as the spilt product. Monitor its disposal. The spill soiled bags need to be labelled and ear marked and placed in a leak proof container which is locked. SDS should be made available. • Contact licenced waste disposal company for collection of waste <p>Reporting</p> <ul style="list-style-type: none"> • Incident details must be entered into iCare along with corrective and preventative actions |
| Further response | <ol style="list-style-type: none"> 1. After a large spill all due care must be taken to prevent any diesel or hydraulic oil from discharging from site 2. EPA and DPIE must be notified as soon as reasonably practicable in the event of a large spill that has or has the potential to result in environmental harm 3. Diesel and oil are prescribed wastes and must be collected and disposed of by appropriately licensed waste contractors |
| Who is in charge? | The site Chief Warden is in charge of this type of incident until relieved by the Emergency Services |

| | | | |
|-------------------------------------|---|--|---|
| Who to call | <i>In the event of a spill that has discharge off site, urgently contact.</i> | Name Chief Warden (Site Manager) – Matt Kelly Deputy Warden – Bill Brittain Emergency Services EPA Spill response contractor | Contact no: UHF Channel 20 0429790895 0439425345 000 131 555 1800 SPILLS (1800 774 557) |
| Emergency equipment required | <ul style="list-style-type: none"> • Emergency spill kits • Site fire fighting equipment such as extinguishers • First aid kit • Emergency supplies, such as drinking water • Site communication devices | | |
| Resuming operations | <ul style="list-style-type: none"> • Clearance to be obtained from site manager and/or emergency services • Area made safe. | | |

| Welding Gases | |
|-----------------------------------|---|
| Storage Location | Designated storage area adjacent workshop |
| Current SDS Location | Located in supervisor office |
| Emission control equipment | Ventilation |
| PPE | Respirator |
| Quantity stored on site | <ul style="list-style-type: none"> • 6 cylinders G size Oxygen • 6 cylinders G size Acetylene |
| Emergency Response | <p>Assess</p> <p>Quickly assess the area:</p> <ul style="list-style-type: none"> • Decide whether to handle the situation at a site level or if you require emergency services involvement. • Advise your team of the hazard • Investigate source of the leak, isolating the cause if this can be completed safely <p>Ensure Personal Safety</p> <ul style="list-style-type: none"> • First priority is to ensure safety of yourself and others in the area. • Consider evacuation and isolation based on risk assessment following site emergency response plan • Do you or others require PPE • Check Safety Data Sheet for the substance and utilise PPE according to specifications • Keep unnecessary people away, isolate hazard area and deny entry • Ventilate closed spaces before entering <p>Secure</p> <ul style="list-style-type: none"> • Secure the area around the leak by positioning barricades to prevent unintended access • If hazards to public or site personnel exists post a guard immediately <p>Contain</p> <ul style="list-style-type: none"> • Conduct a risk assessment to determine best approach for preventing any further risk • Reduce vapours with water spray |

| | | | |
|-------------------------------------|---|--|--|
| | <p>Prevent</p> <ul style="list-style-type: none"> Move all flammable and combustible materials away from area if safe to do so Remove sources of ignition. <p>Absorb</p> <ul style="list-style-type: none"> Once area has been deemed safe and personnel at a safe distance allow gases to leak to atmosphere <p>Disposal</p> <ul style="list-style-type: none"> Once damaged bottle/s is empty organise for collection and replacement by service provider <p>Reporting</p> <ul style="list-style-type: none"> Incident details must be entered into iCare along with corrective and preventative actions | | |
| Further response | If the spill causes a fire or a risk of explosion is identified, refer to emergency response plan for emergency response | | |
| Who is in charge? | The site Chief Warden is in charge of this type of incident until relieved by the Emergency Services | | |
| Who to call | <i>If spill has potential for fire or explosion, immediately contact following:</i> | <p>Name Chief Warden (Site Manager) – Matt Kelly Deputy Warden – Bill Brittain Emergency Services</p> | <p>Contact no: UHF Channel 20 0429790895 0439425345 000</p> |
| Emergency equipment required | <ul style="list-style-type: none"> Emergency spill kits Site fire fighting equipment such as extinguishers First aid kit Emergency supplies, such as drinking water Site communication devices | | |
| Resuming operations | <ul style="list-style-type: none"> Clearance to be obtained from site manager and/or emergency services Area made safe. | | |

| Surfactant - Dustchem 76 | |
|-----------------------------------|--|
| Storage Location | Dustchem dust suppression container at the fixed plant |
| Current SDS Location | Located in supervisor office |
| Emission control equipment | Soil, sand, vermiculite |
| PPE | Safety glasses, PVC gloves |
| Quantity stored on site | <ul style="list-style-type: none"> 1000L IBC |
| Emergency Response | <p>Assess</p> <p>Quickly assess the spill:</p> <ul style="list-style-type: none"> Advise your team of the hazard Investigate source of the spill, isolating the cause of the spill if this can be completed safely <p>Ensure Personal Safety</p> <ul style="list-style-type: none"> First priority is to ensure safety of yourself and others in the area. Do you or others require PPE Check Safety Data Sheet for the substance and utilise PPE according to specifications <p>Secure</p> <ul style="list-style-type: none"> Spills are slippery, so secure the area around the spill by positioning barricades to prevent unintended access <p>Contain</p> <ul style="list-style-type: none"> Conduct a risk assessment to determine best approach for preventing any further surfactant from spilling If the spill has entered a site dam, contain the spill quickly by surrounding with suitable barrier equipment from emergency spill kit and pumping to drop cut sump dam <p>Prevent</p> <ul style="list-style-type: none"> If spill is contained within one of the site dams, prevent spillage from discharging from the site by: <ul style="list-style-type: none"> shutting off all process water pumps shutting off the butterfly valve at the discharge channel on level 3 |

| | | | |
|-------------------------------------|--|--|---|
| | <ul style="list-style-type: none"> o blocking off the drain that runs from the sediment dam to the discharge channel on level 3 o pumping water from sediment dam to drop cut sump dam <p>Absorb</p> <ul style="list-style-type: none"> • Contain and collect spillage with man sand • If spill into water, dilute by pumping water into the drop cut to allow dilution <p>Disposal</p> <ul style="list-style-type: none"> • Dustchem 76 does not preset a significant environmental risk; however should not be allowed to be discharged off site • Spills should be collected and disposed of in the drop cut or reprocessed through the crushing plant <p>Reporting</p> <ul style="list-style-type: none"> • Incident details must be entered into iCare along with corrective and preventative actions | | |
| Further response | <p>All due care must be taken to prevent any of the surfactant from discharging from site</p> <p>EPA and DPIE must be notified as soon as reasonably practicable in the event of a large spill that has or has the potential to result in environmental harm</p> | | |
| Who is in charge? | The site Chief Warden is in charge of this type of incident | | |
| Who to call | <i>In the event of a spill that has discharged off site, urgently contact.</i> | <p>Name</p> <p>Chief Warden (Site Manager) – Matt Kelly</p> <p>Deputy Warden – Bill Brittain</p> <p>Emergency Services</p> <p>EPA</p> | <p>Contact no:</p> <p>UHF Channel 20</p> <p>0429790895</p> <p>0439425345</p> <p>000</p> <p>131 555</p> |
| Emergency equipment required | <ul style="list-style-type: none"> • Emergency spill kits • First aid kit • Emergency supplies, such as drinking water • Site communication devices | | |
| Resuming operations | <ul style="list-style-type: none"> • Clearance to be obtained from site manager • Area made safe. | | |

| <i>Effluent</i> | |
|-----------------------------------|---|
| Storage Location | Septic tanks adjacent site office and weighbridge |
| Current SDS Location | Located in supervisor office |
| Emission control equipment | Access to council commercial vacuum/ pump truck, soil, sand, bleach, sodium bicarbonate |
| PPE | PVC Gloves, goggles, overalls |
| Quantity stored on site | <ul style="list-style-type: none"> • 3000L tank at office • 1000L tank at weighbridge |
| Emergency Response | <p>Assess</p> <p>Quickly assess the spill:</p> <ul style="list-style-type: none"> • Decide whether to handle the situation at a site level or if you require emergency services involvement. • Advise your team of the hazard • Investigate source of the spill, isolating the cause of the spill if this can be completed safely <p>Ensure Personal Safety</p> <ul style="list-style-type: none"> • First priority is to ensure safety of yourself and others in the area. • Consider evacuation and isolation based on risk assessment following site emergency response plan • Do you or others require PPE • Contaminated areas must be clearly marked or cordoned off to restrict access. • Site personnel must not come into contact with effluent, due to health risks <p>Secure</p> <ul style="list-style-type: none"> • Secure the area around the spill by positioning barricades to prevent unintended access • If hazards to public or site personnel exists post a guard immediately <p>Contain</p> <ul style="list-style-type: none"> • Conduct a risk assessment to determine best approach for preventing any further effluent from spilling |

| | | | |
|-------------------------------------|--|--|--|
| | <ul style="list-style-type: none"> If the spill has entered a site dam, or has the potential to discharge off site contain the spill quickly by surrounding with man sand <p>Prevent</p> <ul style="list-style-type: none"> If spill is contained within one of the site dams, prevent spillage from discharging from the site by: <ul style="list-style-type: none"> shutting off all process water pumps shutting off the butterfly valve at the discharge channel on level 3 blocking off the drain that runs from the sediment dam to the discharge channel on level 3 pumping water from sediment dam to drop cut sump dam <p>Absorb</p> <ul style="list-style-type: none"> A commercial septic vacuum / pump truck contractor should be called to remove all visible liquid and solid material. <p>Disposal</p> <ul style="list-style-type: none"> An emergency sewerage remediation company must be used for the cleanup <p>Reporting</p> <ul style="list-style-type: none"> Incident details must be entered into iCare along with corrective and preventative actions | | |
| Further response | All due care must be taken to prevent any of the effluent from discharging from site EPA and DPIE must be notified as soon as reasonably practicable in the event of a large spill that has or has the potential to result in environmental harm | | |
| Who is in charge? | The site Chief Warden is in charge of this type of incident | | |
| Who to call | <i>In the event of a spill that has discharged off site, urgently contact.</i> | <p>Name Chief Warden (Site Manager) – Matt Kelly Deputy Warden – Bill Brittain Ballina Pumping Service EPA Emergency Sewage Cleanup</p> | <p>Contact no: UHF Channel 20 0429790895 0439425345 0437 963 976 131 555 1300926375</p> |
| Emergency equipment required | <ul style="list-style-type: none"> Emergency spill kits First aid kit Emergency supplies, such as drinking water Site communication devices | | |
| Resuming operations | <ul style="list-style-type: none"> Clearance to be obtained from site manager Area made safe. | | |

Untreated Water from Sediment Dams

| | |
|-----------------------------------|--|
| Storage Location | Site sediment dam |
| Current SDS Location | Located in supervisor office |
| Emission control equipment | Freeboard |
| PPE | N/A |
| Quantity stored on site | <ul style="list-style-type: none"> 11.5 Mega Litres |
| Emergency Response | <ul style="list-style-type: none"> <p>Assess</p> <ul style="list-style-type: none"> Advise your team of the hazard Assess the water for TSS, pH and oil and grease. If within the consent and licence parameters, no further action If outside of the consent and licence parameters, enact the PIRMP <p>Ensure Personal Safety</p> <ul style="list-style-type: none"> First priority is to ensure safety of yourself and others in the area. Do you or others require PPE <p>Secure</p> <ul style="list-style-type: none"> S <p>Contain</p> <ul style="list-style-type: none"> Shut off all water pumps that feed into sediment dam (stockpile area pump and pit dewatering pump) shut off the butterfly valve at the discharge channel on level 3 <p>Prevent</p> <ul style="list-style-type: none"> Pumping water from sediment dam to drop cut sump dam to increase freeboard <p>Absorb</p> <ul style="list-style-type: none"> Allow time for sediment to settle in dam <p>Disposal</p> <ul style="list-style-type: none"> Once water has been assessed as within specified levels for TSS, pH and oil and grease discharge from site |

| | | | |
|-------------------------------------|--|--|--|
| | Reporting <ul style="list-style-type: none"> Incident details must be entered into iCare along with corrective and preventative actions if untreated water from sediment dam has been discharged from site Note; the licence approval allows does not require reporting of discharges of water form site after >80mm rainfall event. As such, untreated water discharging from site after >80mm rainfall event does not need to be reported | | |
| Further response | All due care must be taken to prevent any untreated water from sediment dams from discharging from site EPA and DPIE must be notified as soon as reasonably practicable in the event of discharge of untreated water from sediment dam that has or has the potential to result in environmental harm | | |
| Who is in charge? | The site Chief Warden is in charge of this type of incident | | |
| Who to call | <i>In the event of a spill that has discharged off site, urgently contact.</i> | Name Chief Warden (Site Manager) – Matt Kelly Deputy Warden – Bill Brittain | Contact no: UHF Channel 20 0429790895 0439425345 |
| Emergency equipment required | <ul style="list-style-type: none"> First aid kit Emergency supplies, such as drinking water Site communication devices Life jackets if drowning identified as risk on risk assessments | | |
| Resuming operations | <ul style="list-style-type: none"> Clearance to be obtained from site manager Area made safe. | | |

| <i>Water / Foam After Fire Fighting Activity</i> | |
|---|--|
| Storage Location | HME Fire suppression systems and brought onto site by emergency services |
| Current SDS Location | Located in office, online (ChemAlert) and brought to site by emergency services |
| Emission control equipment | Dust, vermiculite (spill kits) |
| PPE | PVC gloves, safety glasses, goggles |
| Quantity stored on site | Fire suppression foam on HME: 100L Fire water/foam volume from emergency services dependent on volumes required |
| Emergency Response | <p>Assess</p> <p>When fire Fighting Activities have been completed and Area is Safe, Quickly assess the spill:</p> <ul style="list-style-type: none"> • Advise your team of the hazard • Investigate source of the spill, isolating the cause of the spill if this can be completed safely <p>Ensure Personal Safety</p> <ul style="list-style-type: none"> • First priority is to ensure safety of yourself and others in the area. • Do you or others require PPE • Check Safety Data Sheet for the substance and utilise PPE according to specifications. Ask emergency services for copy of SDS for foam and feedback on environmental containment to prevent pollution <p>Secure</p> <ul style="list-style-type: none"> • Secure the area around the spill by positioning barricades to prevent unintended access • If hazards to public or site personnel exists post a guard immediately <p>Contain</p> <ul style="list-style-type: none"> • Conduct a risk assessment to determine best approach for containing any fire water to prevent pollution • If the spill has entered a site dam, contain the spill quickly by surrounding with suitable barrier equipment from emergency spill kit • Move other containers from that area to a bunded area <p>Prevent</p> |

| | | | |
|--------------------------|--|---|--|
| | <ul style="list-style-type: none"> If spill is contained within one of the site dams, prevent spillage from discharging from the site by: <ul style="list-style-type: none"> shutting off all process water pumps shutting off the butterfly valve at the discharge channel on level 3 blocking off the drain that runs from the sediment dam to the discharge channel on level 3 pumping water from sediment dam to drop cut sump dam <p>Absorb</p> <ul style="list-style-type: none"> Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth from spill kits based on location of the spill If spill onto land place material into a container for collection by a licensed contractor If spill into water, contain the water and prevent from discharging off site Engage a contractor to collect the water and dispose of off site <p>Disposal</p> <ul style="list-style-type: none"> Contaminated absorbent material may pose the same hazard as the spilt product. Monitor its disposal. The spill soiled bags need to be labelled and ear marked and placed in a leak proof container which is locked. SDS should be made available. Contact licenced waste disposal company for collection of fire water waste <p>Reporting</p> <ul style="list-style-type: none"> Incident details must be entered into iCare along with corrective and preventative actions | | |
| Further response | <ol style="list-style-type: none"> After a large spill all due care must be taken to prevent any fire water from discharging from site EPA and DPIE must be notified as soon as reasonably practicable in the event of a large spill that has or has the potential to result in environmental harm Fire water is a prescribed waste and must be collected and disposed of by appropriately licensed waste contractors | | |
| Who is in charge? | The site Chief Warden is in charge of this type of incident until relieved by the Emergency Services | | |
| Who to call | <i>In the event of a spill that has discharge off site, urgently contact.</i> | <p>Name Chief Warden (Site Manager) – Matt Kelly Deputy Warden – Bill Brittain Emergency Services EPA Spill response</p> | <p>Contact no: UHF Channel 20 0429790895 0439425345 000 131 555 1800 SPILLS (1800 774 557)</p> |

| | |
|-------------------------------------|---|
| Emergency equipment required | <ul style="list-style-type: none"> • Emergency spill kits • Site fire fighting equipment such as extinguishers • First aid kit • Emergency supplies, such as drinking water • Site communication devices |
| Resuming operations | <ul style="list-style-type: none"> • Clearance to be obtained from site manager and/or emergency services • Area made safe. |

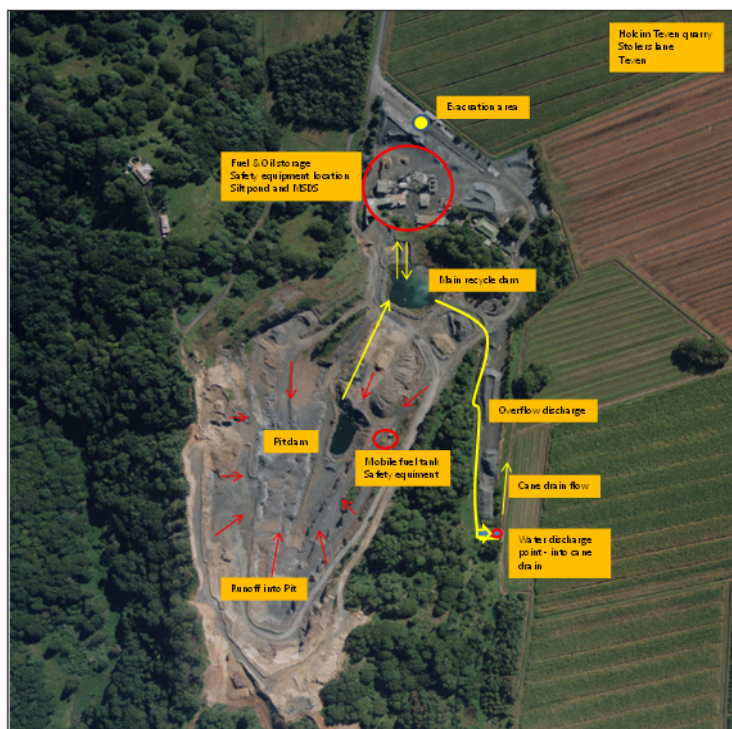
7.3 Emergency Response Map

In addition to the PIDS the site needs to prepare an emergency response map that provides the following information;

- address of site
- location of pollutant storage
- location of safety equipment
- emergency evacuation / muster points
- stormwater drains / flow paths
- sensitive receivers
- sediment dam overflow locations
- location of SDS
- surrounding area that is likely to be affected by a pollution incident
- discharge location of stormwater drains to nearest water course or water body

Existing site maps that have been developed to comply with Holcim SHE system requirement 1.84 may be used if all the required items have been included. If an existing map is not available it should be created.

It is important to clearly identify these items so as to be able to respond in an emergency situation.



7.4 PIRMP Review

Review of PIRMP will be undertaken to check that the information is accurate and current and that the plan is capable of being implemented in a workable and effective manner. Reviewing shall be undertaken in the following ways:

The PIRMP will be tested annually and any identified updates or changes will be made. The PIRMP will be tested and reviewed within one month from the date of any pollution event that triggers this PIRMP. The review will also consist of assessment of any additional hazards and control measures.

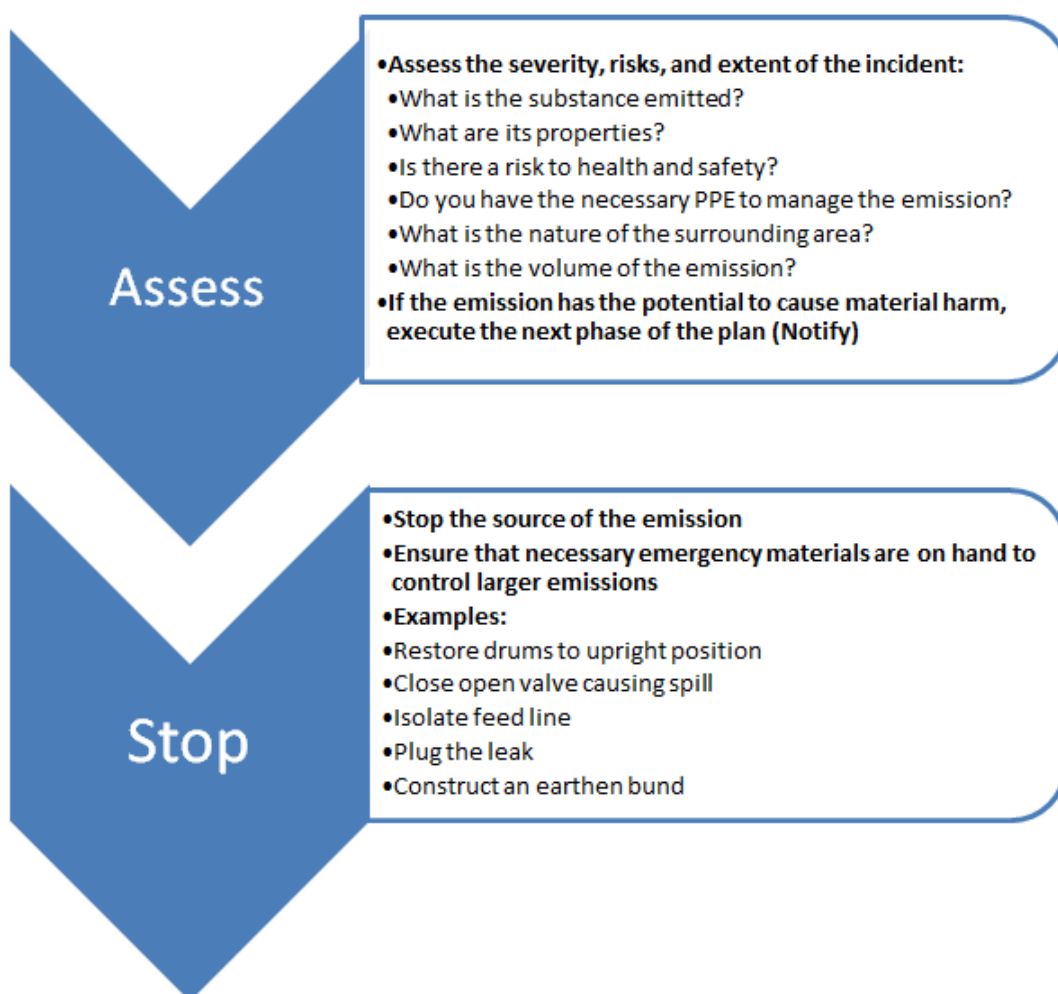
In addition to site evacuation drills, a mock environmental incident will be done once a year to ensure all site personnel are following training and correct procedures. The mock scenario will be set and all the actions will be captured on the check sheet. Based on these mock incidents, the Site manager and the Planning and Environmental Coordinator will review the site personnel preparedness and site procedures to identify gaps or areas for improvement. Records of the drill will be maintained, including follow up of opportunities for improvement identified during emergency drills.

7.5 Typical Holcim Response process

If it is suspected that an incident may cause material environmental harm the Pollution Incident Management Response Plan will be executed. This plan is based on seven phases:

1. Assess
2. Stop
3. Notify
4. Contain
5. Mitigate
6. Clean up
7. Review

Details of the requirements and responsibilities for each phase are explained below.



Notify

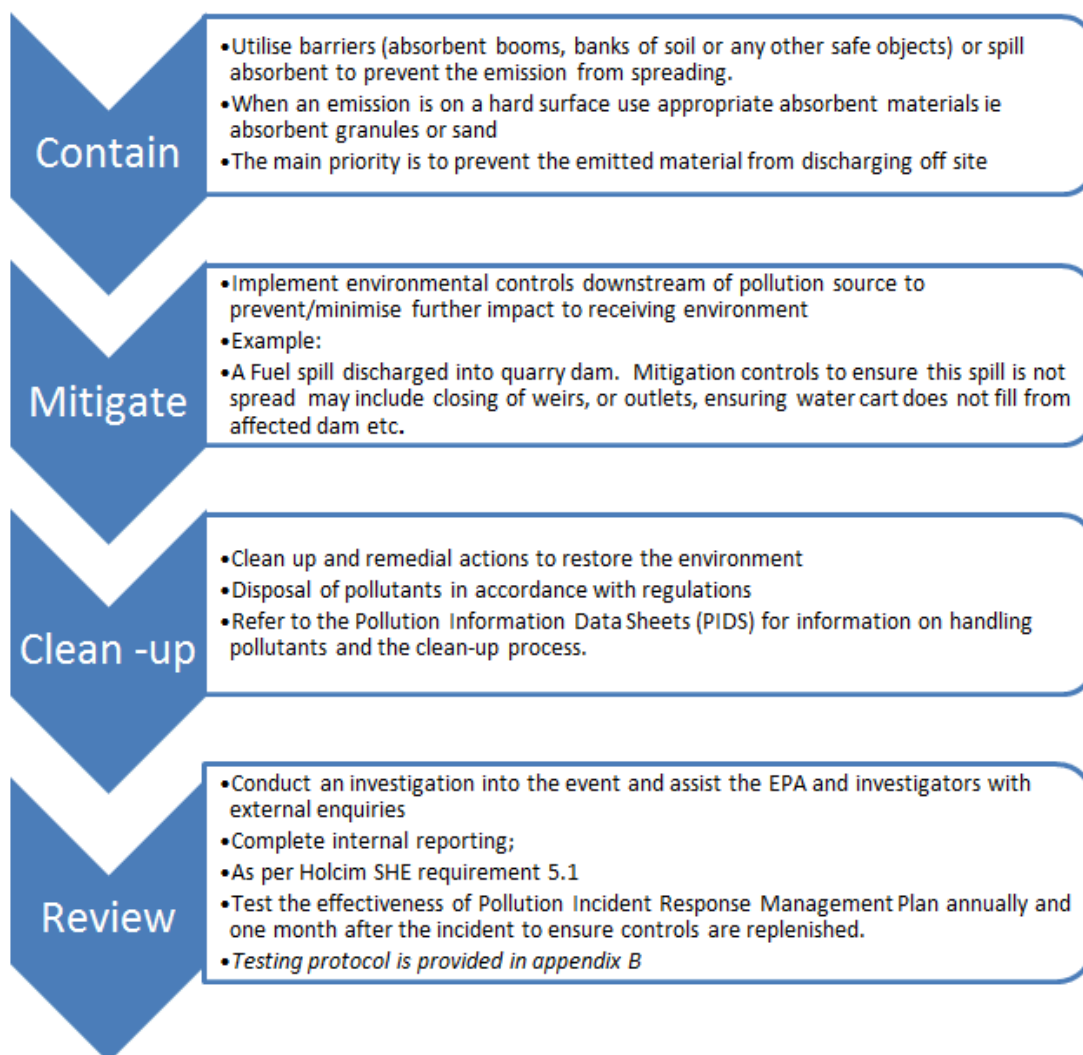
- **Contact key individuals**

- Individuals responsible for activating and managing plans (nominated site representatives)
- Individuals authorised to notify and coordinate relevant authorities (nominated site representatives)

- **Contact Relevant Authorities**

- Firstly, call 000 if the incident presents an immediate threat to human health or property.
- If the incident does not require an initial combat agency, or once the 000 call has been made, notify the relevant authorities in the following order. The 24-hour hotline for each authority is given when available:
 - the Appropriate Regulatory Authority
 - EPA
 - Ministry of Health via the local Public Health Unit
 - WorkCover Authority
 - the local authority if this is not the ARA
 - Fire and Rescue NSW

- *Specific contact details are provided in appendix A*



7.6 Communication Strategy

It is a legal requirement of the Protection of the Environment Operations (POEO) Act, to notify key stakeholders in neighbouring properties that may be affected by an incident.

Communicating with neighbours and the community in the event of an environmental incident is vital as they have a right to know about any spill that can potentially lead to material harm to their properties or themselves. The communication strategy in the PIRMP provides sites with a method of communicating with key stakeholders.

Key stakeholders include neighbouring residential and/or commercial properties, sensitive receivers ie farms, hospitals schools within the area of impact. Consideration must be given to sensitive receivers that may be affected if the emission reaches a water body. For example a farmer that is cultivating crops down river from your site will need to be informed of a spill to prevent him spraying his crops with polluted irrigation water.

The PIRMP must include details of the mechanisms that will be used for providing early warnings and regular updates to the owners and occupiers of premises who may be affected by an incident occurring at the premises.

The communication strategy should also make reference to any actions or arrangements that will be in place to minimise the risk of harm to any persons who will be on the premises or who are likely to be on the premises at the time of an incident. This is a legislative requirement that needs to be included in the PIRMP.

For a table detailing the communication strategy for this site:

Refer to Appendix C – Community Notification Strategy

7.7 Staff Training

Sites need to develop a toolbox talk based on the PIRMP. This training should be delivered to all appropriate personnel on site and be conducted to include potential scenarios that may require implementation of the plan.

Frequency of training

Training for site staff should be repeated annually, and after each update to the plan. In the event of an incident requiring the PIRMP to be activated a training drill should be carried within one month of the incident occurring.

How Records of training are kept

Training records should be stored on site and in the Chris 21 data base. This data base is the primary online tool for tracking individual staff training records and frequency for training and refresh courses. These records are to be made available to relevant authorities on request.

7.8 Continual Improvement

It is a legislative requirement for this plan to be tested and updated on an annual basis and within one month of an incident.

To complete this requirement a Pollution Incident Response Test Checklist has been prepared and provided as Appendix B. The checklist includes the major elements of the plan that require testing:

- Contact numbers
- Evacuation drills
- Desktop assessment
- Staff training and awareness
- Environmental controls & PPE

Desktop assessments require site personnel, responsible for testing the plan, to select a scenario from the hazard and impact register (table 2) and ensure that all the required controls for the scenario are in place. During the desktop assessment environmental control and PPE equipment supplies should be inspected to ensure that they are functional and that there are enough materials to ensure that emissions relating to the scenario can be controlled effectively and safely.

Appendix A - Emergency Contact Details

| Contacts | Phone Number |
|---|---|
| Individuals responsible for activating the plans and managing the response | Quarry Manager Matt Kelly - 0429 790 895 |
| Individuals Authorised to Notify and Coordinate Relevant Authorities | Quarry Supervisor Bill Brittain - 0439 425 345 |
| Emergency Services | 000 |
| Emergency Spill Response Cleanup Contractor | Cleanaway 1800 SPILLS (1800 774 557) |
| EPA | 131 555 |
| The Ministry of Health via the local Public Health Unit | 1300 555 555 |
| WorkCover Authority | 13 10 50 |
| Local Council (If this is not DECCW) (List of NSW Local Council Phone Numbers www.dlg.nsw.gov.au/dlg/dlghome/dlg_localgov_directory.asp) | Ballina Shire Council (02) 6686 4444 |
| Fire and Rescue NSW | 000 |
| Other Organisations or agencies that need to be advised of the incident | 1300 729 579 |
| Ballina Pumping Service | 0437 963 976 |
| Emergency Sewage Cleanup | 1300926375 |

Appendix B - Pollution Incident Response Checklist

Date: 22/10/24

Site: Teven Quarry

Address: 129 Stokers Lane Teven 2478

Pollution Incident Scenario: Fire water spill where water after a HME fire has entered top dam

Instructions

1. Select an Environmental Incident applicable to the site to test in a Pollution Scenario (this may include a major spill, equipment failure or breaches of license consent that may cause impacts onsite and to the surrounding community);
2. Using the scenario conduct a desktop review using the Test Checklist as a prompt to ensure that each component of the PIRMP is up to date;
3. Sign off the checklist, scan and send to the NSW Environment Manager;
4. Environment Manager will make amendments to the plans and submit these to the site managers for review and approval;
5. Site Managers to hold a tool box talk with staff on the details of the PIRMP and keep a copy of the PIRMP onsite for future reference.

| Are all contact details within the plan current and up to date? | Phone Numbers | |
|--|---------------|----------------|
| | Currency | Updated Number |
| Individuals responsible for activating the plans and managing the response | Up to date | |
| Individuals Authorised to Notify and Coordinate Relevant Authorities | Up to date | |

| | | |
|---|------------|--|
| Emergency Services | Up to date | |
| EPA | Up to date | |
| The Ministry of Health via the local Public Health Unit | Up to date | |
| WorkCover Authority | Up to date | |
| Local Council | Up to date | |
| Fire and Rescue NSW | Up to date | |
| Additional Contacts relevant to the licensee's premises | Up to date | |
| Other Organisations or agencies that need to be advised of the incident | Up to date | |

| Environmental Hazards and Control Standards | Yes/ No | Actions |
|---|----------------|----------------|
| Are the descriptions of environmental hazards up to date? | Yes | |
| Are the potential and likelihood of incidents that could occur still correct and relevant to the site operations? | Yes | |
| Are the pre-emptive actions for risk management of the relevant activity correct and relevant to the site? | Yes | |

| | | |
|---|-----|--|
| Is there an inventory of pollutants (including quantities of pollutants onsite)? | Yes | |
| Is the listed safety equipment & PPE correct and up to date? | Yes | |
| Is there a map/s located onsite detailing the following; - The site and the surrounding area likely to be affected in the event of an incident - The Locations of storage/ holding points of pollutants - Stormwater drains and discharge points offsite | Yes | |
| Are the nature and objectives of staff training set out in the plan? | Yes | |
| Are there details of mechanisms for providing early warnings and regular updates to the owners and occupiers? | Yes | |
| Is there a copy of the plan onsite and up to date? | Yes | |

Has there been an evacuation drill in the last 12 months? **Yes** / No

Date: 23/10/24

Notes:

Improvements to the Pollution Incident Response Management Plan:

- Added fire water incident to PIRMP
- Added emergency spill response contractor

Comments / Recommendations / Review

-
-
-
-
-

Pollution Incident Response Test Checklist Assessor: Matt Kelly

Signed:



Appendix C – Community Notification Strategy

If there is an Environmental Incident that has the potential to cause harm to the following stakeholders they will be contacted by **TELEPHONE**

| Stakeholder Component | Name | Contact Information |
|-----------------------|-----------------|---------------------|
| Neighbour | Wayne Huntley | 0422325447 |
| Neighbour | Paul Rizzo | 0428 660 069 |
| Ballina Council | Ballina Council | (02) 6686 4944 |
| Neighbour | Tom O'Brien | 0437 235 814 |
| Neighbour | Nathan | 0423 631 541 |
| Neighbour | Trenna | 0400 539 255 |
| Neighbour | Darren | 0407 666 997 |
| Neighbour | Nick | 0414 668 716 |
| Neighbour | Brendan | 0408 978 678 |