

Strength, Performance, Passion

# Pollution Incident Response Management Plan Hornsby Concrete

# Holcim Pollution Incident Response Management Plan (PIRMP) -Hornsby Concrete

**Revision/ Checking History** 

Revision Number	Date	Checked By	Issued By
1	May 2019	Hema Vignaraja – SHE Reporting Analyst Shilpa Shashi - NSW/ACT Planning & Environment Coordinator	Hema Vignaraja

# **Table of Contents**

1. Purpose
2. Scope 6
3. Definitions
4. Associated Documentation 6
5. Responsibility 7
6. Record Retention7
7. Procedure
7.1 Environmental Impact and Hazard Register9
7.2 Pollutant and Safety Equipment Information17
7.3 Emergency Response Map26
7.4 PIRMP Review28
7.5 PIRMP Process
7.6 Communication Strategy31
8. Staff Training
9. Continual Improvement 32

# Appendices

A: Emergency Contact Details
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# **B: Pollution Incident Response Test Checklist**

**C: Community Notification Strategy** 

D: Maps

## **Glossary of Acronyms**

PIDS- Pollution Information Data Sheet

### **PPE-** Personnel 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 **HORNSBY CONCRETE** plant and to meet the requirements of Section 5.7A of the Protection of the Environment Operations (POEO) Act:

# Pollution incident response management plan PIRMP for non-licensed facilities

Serious pollution incidents can also occur at non-licensed premises. The EPA has a regulation-making power to specify the types of non-licensed industrial premises that are required to prepare similar plans and protocols. These plans must also include community notification and communication protocols. EPA applies this requirement to higher-risk polluting facilities where ongoing regulation via an environment protection licence is not required and the risks associated with a pollution incident can be addressed by appropriate response planning.

#### 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—\$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.

#### 153F Implementation of plan

5

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 Hornsby Concrete Plant

# 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: Mohammad Darabi - Site Manager

- 2) Notifying and coordinating relevant authorities: Mohammad Darabi Site Manager, Allan Woods – Production Supervisor
- 3) Implementation and management of this document: Shilpa Shashi- NSW/ACT Planning & Environment Coordinator
- 4) Annual review and testing of PIRMP Shilpa Shashi- NSW/ACT Planning & Environment Coordinator

# 6. Record Retention

A copy of all 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 2019 Final' folder that will be shared with the site.

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 – Attachment 6.2F

Step 1 - Consider the Consequence					
	What are the consequ	uences of the most reasonable w	vorst case scenario considering a	credible failure of existing cont	rols?
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 breech 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								
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						
Libbood			Consequences			
Liklihood	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 Concrete Environmental Impact and Hazard Register - HORNSBY CONCRETE

Hazard /	Potential Impact	Current Controls	Risk Rating With Current Controls		
Aspect	i otentiai impact	ourrent controls	Consequence	Likelihood	Risk Rating
Incoming Ce	ment and Flyash				
Material delivery	Air emissions due to truck movements	Roadways and driveways are maintained to minimise dust resulting from vehicle movements.	Minor	Possible	Low
Material delivery	Vehicle exhaust emissions	Exhaust emissions of mobile equipment are not excessively smoky, and are in compliance with emission standards (based on 10 second rule). Emission Test conducted.	Minor	Rare	Low
Material delivery	Noise from truck and truck compressors in event of early morning and late night deliveries	Noise complaints are documented, investigated and corrective actions executed where required. All entries are captured on INX. Compressor on timers to minimise potential impact to neighbours.	Minor	Rare	Low
Material delivery	Noise from truck and truck compressors in event of early morning and late night deliveries	Compressors, noisy engines, generators and exhausts are fitted with silencers.	Minor	Rare	Low
Unloading material	Impact on storm water quality if there is a cement of fly ash spill	Any spills of cement, fly ash or liquids are cleaned up immediately. It is in contaminated area and goes to wedge pit.	Minor	Unlikely	Low
Unloading material	Impact on storm water quality if there is a cement of fly ash spill	During product unloading and re-fuelling activities, nearby stormwater drain entry points are isolated to prevent spilt substances entering the drain.	Minor	Rare	Low
Unloading material	Impact on storm water quality if there is a cement of fly ash spill	Any spills are appropriately reported and investigated based on potential risk, including the generation of corrective actions. Recycled water gets tested for batching purposes. Spill response management plan in place. PIRMP - mock scenerio check list completed.	Minor	Unlikely	Low
Unloading material	Consumption of electricity by machinery	Management systems in place to reduce amount of electricity used by machines e.g. not running machinery at maximum velocity. Timers in place for pumps, compressor, standby options available.	Minor	Rare	Low

Unloading material	Generation of waste from cement or fly ash spills	Waste associated with any spills is disposed of in accordance to State requirements. Nominated waste collector.	Minor	Unlikely	Low
Unloading material	Release of cement or fly ash from hose/piping connection during unloading	Delivery pipes are clearly labelled with the silo identification and material stored inside the silo. This is usually achieved by colour coding the delivery pipes.	Minor	Rare	Low
Unloading material	Release of fly ash or cement due to malfunction of overfill protection, failure of silo filters or poorly sealed inspection covers.	An emergency shutdown valve is installed to ensure the flow of cement can be stopped in an emergency. On the panel, where the butterfly valve for fill pipe, there is an emergency shut down right next to the valve, accessible to the drivers.	Significant	Possible	Low
Incoming Aggregate a	and Sand				
Material delivery	Dust from truck movements	Paved roadways are maintained in a clean and dust free state to minimise dust from vehicle movements.	Minor	Rare	Low
Material delivery	Vehicles exhaust emissions.	Exhaust emissions of trucks are not excessively smoky, and are in compliance with emission standards.	Minor	Rare	Low
Unloading materials	Noise from truck movements and tipping	Compressors, noisy engines, generators and exhausts are fitted with silencers.	Minor	Rare	Low
Unloading materials	Noise from truck movements and tipping	Access tracks and haul roads are well maintained to prevent corrugation that contributes to truck noise.	Minor	Rare	Low
Unloading materials	Noise from truck movements and tipping	Soft drop of the aggregates into the bin to ensure the noise kept at minimum.	Significant	Possible	Low
Unloading materials	Release of dust during transport and unloading of sand and aggregate	Sand and aggregates are delivered in dampened state or in covered trucks to minimise potential for dust. All covered.	Minor	Rare	Low
Incoming Admixture a	and Bagged product				
Material delivery	Dust from truck movements	Paved roadways are maintained in a clean and dust free state to minimise dust from vehicle movements.	Minor	Rare	Low
Material delivery	Vehicle exhaust emissions	Exhaust emissions of trucks are not excessively smoky, and are in compliance with emission standards.	Minor	Rare	Low
Material delivery	Noise from delivery vehicles	Access tracks and haul roads are well maintained to prevent corrugation that contributes to truck noise.	Minor	Rare	Low

Material delivery	Noise from delivery vehicles	In noise sensitive areas, deliveries are limited to minimise potential impact on neighbours. Admixture delivery and bag product delivery are only received during delivery hours.	Minor	Rare	Low
Unloading material	Accidental release of admixture or bagged oxide impacting soil	Waste associated with any spills is disposed of in accordance to State requirements. Admix is placed in a bund, any accidental discharge is contained and picked up by BASF Contractors. Any oxides get taken to waste facility.	Minor	Rare	Low
Unloading material	Accidental release of admixture or bagged oxide impacting soil	Any spills are promptly cleaned up. Spill Management response plan activated.	Minor	Rare	Low
Unloading material	Accidental release of admixture or bagged oxide impacting soil	Any spills are appropriately reported and investigated based on potential risk, including the generation of corrective actions. INX entry.	Minor	Rare	Low
Unloading material	Accidental release of admixture or bagged oxide impacting soil	A documented spill response procedure is in place and employees have been trained in its use	Minor	Rare	Low
Unloading material	Spill during unloading of admixture impacting water quality	Where practical, runoff is directed to recycled water and gets batched & recycled.	Minor	Rare	Low
Unloading material	Spill during unloading of admixture impacting water quality	Controls are in place for admixture storage and delivery near water bodies	Minor	Rare	Low
Unloading material	Spill during unloading of admixture impacting water quality	During unloading of admixture, nearby stormwater drain entry points are isolated to prevent any spilt substance entering the drain.	Minor	Rare	Low
Unloading material	Bag splitting releasing oxide into water	Any spills are promptly cleaned up.	Minor	Rare	Low
Unloading material	Bag splitting releasing oxide into water	Any spills are appropriately reported and investigated based on potential risk, including the generation of corrective actions. INX entry .	Minor	Rare	Low
Unloading material	Bag splitting releasing oxide into water	A documented spill response procedure is in place and employees have been trained in its use.	Minor	Rare	Low
Unloading material	Generation of waste from spills	In event of a spill of admixture, the supplier company is contacted to provide details on best method for disposal.	Minor	Rare	Low
Unloading material	Generation of waste from spills	Waste associated with any spills is disposed of in accordance to State requirements.	Minor	Rare	Low
Unloading material	Generation of waste from spills	Wastes are appropriately segregated (e.g., contaminated spill absorbent materials separated). Dedicated area to station the spill kit contents before pickeup.	Minor	Rare	Low

Unloading material	Generation of waste from spills	Waste is stored in an area that will not contaminate any watercourse, waterway, groundwater, wetland or lake and soil. Established post a PIRMP mock scenerio.	Minor	Rare	Low
Cement and Fly Ash	Storage				
Loading/unloading cement or flyash	Release of fly ash or cement due to malfunction of overfill protection, failure of silo filters or poorly sealed inspection covers.	Filter function is checked when tanker is blowing in - check for dust leaking from filter bag house. Driver should be looking for dust coming through the exhaust pipe.	Minor	Unlikely	Low
Loading/unloading cement or flyash	Release of fly ash or cement due to malfunction of overfill protection, failure of silo filters or poorly sealed inspection covers.	The silo hatches are air tight. The dipping points are air tight	Minor	Rare	Low
Silo maintenance	Release of dust from silo filters due to inadequate capacity or lack of maintenance.	Inspection plan is in place to inspect, service and clean reverse pulse filters. SHE schedule, silo inspection at a quarterly frequency by a contractor.	Minor	Rare	Low
Silo maintenance	Release of dust from silo filters due to inadequate capacity or lack of maintenance.	An inspection plan is in place to inspect the wear of the keystone valves and associated pipe work. Quartely frequency.	Minor	Unlikely	Low
Operation of process equipment	Consumption of electricity by process equipment (e.g. alarms and monitoring devices)	Systems in place to reduce energy consumption. Cut offs, alarms and valves.	Minor	Rare	Low
Loading/unloading cement or flyash	Impact on water quality due to cement or fly ash spill.	Any spills of cement, fly ash or liquids are cleaned up immediately.	Minor	Rare	Low
Loading/unloading cement or flyash	Impact on water quality due to cement or fly ash spill.	Regular cleaning of the loading area is undertaken to minimise tracking of concrete slurry and contaminated water into the designated 'clean area'.	Minor	Rare	Low
Loading/unloading cement or flyash	Impact on water quality due to cement or fly ash spill.	All trafficable areas are sealed to prevent leaching into groundwater.	Minor	Rare	Low
Loading/unloading cement or flyash	Impact on water quality due to cement or fly ash spill.	Trucks are hosed down in designated 'contaminated area' to prevent tracking concrete slurry into clean areas. Wheel wash at the slump stand.	Minor	Rare	Low

Loading/unloading cement or flyash	Impact on water quality due to cement or fly ash spill.	The area of the site that generates contaminated stormwater is minimised (clean, dirty and contaminated areas can often be segregated by the use of speed humps and bunds which divert runoff to appropriate locations.)	Minor	Rare	Low
Loading/unloading cement or flyash	Impact on water quality due to cement or fly ash spill.	During a rain event, the first 20mm (i.e., first flush volume) that falls in the 'contaminated area' of the plant is captured and stored for reuse. When rainfall ceases, this first flush water is used at the earliest opportunity.	Minor	Rare	Low
Loading/unloading cement or flyash	Impact on water quality due to cement or fly ash spill.	Slumping is carried out within contaminated area of the plant.	Minor	Rare	Low
Operation of overfill alarms and air filters	Noise from overfill protection alarms sounding or pulses from air filters.	We have sirens for the conveyor belts only, which are inside the plant and for any external warning system, it is flashing lights only.	Minor	Rare	Low
Operation of overfill alarms and air filters	Noise from overfill protection alarms sounding or pulses from air filters.	Visual alarms are used in preference to audible alarms.	Minor	Rare	Low
Operation of overfill alarms and air filters	Noise from overfill protection alarms sounding or pulses and air valves from air filters.	Compressors are pumps are enclosed.	Minor	Rare	Low
Operation of air valves and silo filters	Noise from air valves and silo filters.	Silencing devices are fitted to all pressure operated equipment.	Minor	Rare	Low
Storage of waste from spills	Generation of waste from spills	Waste associated with any spills is disposed of in accordance to State requirements.	Minor	Rare	Low
Storage of waste from spills	Generation of waste from spills	Wastes are appropriately segregated (e.g contaminated spill absorbent materials separated from general refuse).	Minor	Rare	Low
Storage of waste from spills	Generation of waste from spills	Waste is stored in an area that will not contaminate any watercourse, waterway, groundwater, wetland or lake and soil.	Minor	Rare	Low
Admixture and Bagge	d Product Storage				
Admixture storage	Admixture tracked into clean areas	Admixture and bagged product appropriately stored in accordance with state requirements.	Minor	Rare	Low
Admixture storage	Admixture tracked into clean areas	Trucks are hosed down in designated 'contaminated area' to prevent tracking concrete slurry into clean areas.	Minor	Rare	Low

Spill waste from admixture	Accidental release of admixture or mould oil impacting soil.	Waste associated with any spills is disposed of in accordance to State requirements.	Minor	Rare	Low
Spill waste from admixture	Accidental release of admixture or mould oil impacting soil.	Any spills are promptly cleaned up. INX entry.	Minor	Rare	Low
Spill waste from admixture	Accidental release of admixture or mould oil impacting soil.	Any spills are appropriately reported and investigated based on potential risk, including the generation of corrective actions.	Minor	Rare	Low
Spill waste from admixture	Accidental release of admixture or mould oil impacting soil.	A documented spill response procedure is in place and employees have been trained in its use	Minor	Rare	Low
Spill waste from admixture	Accidental release of admixture impacting soil.	Waste associated with any spills is disposed of in accordance to State requirements.	Minor	Rare	Low
Spill waste from admixture	Accidental release of admixture or mould oil impacting water quality.	Waste associated with any spills is disposed of in accordance to State requirements.	Minor	Rare	Low
Spill waste from admixture	Accidental release of admixture or mould oil impacting water quality.	Any spills are promptly cleaned up.	Minor	Rare	Low
Spill waste from admixture	Accidental release of admixture or mould oil impacting water quality.	Any spills are appropriately reported and investigated based on potential risk, including the generation of corrective actions.	Minor	Rare	Low
Spill waste from admixture	Accidental release of admixture or mould oil impacting water quality.	A documented spill response procedure is in place and employees have been trained in its use	Minor	Rare	Low
Spill waste from admixture	Generation and disposal of waste admixture or mould oil.	Any leakage from empty drums is contained and not permitted to enter waterways or come into contact with soil.	Minor	Rare	Low
Spill waste from admixture	Generation and disposal of waste mould oil drums.	Empty drums are stored in a designated bunded area until collected for recycling.	Minor	Rare	Low
Spill waste from admixture	Generation and disposal of waste mould oil drums.	All transport and disposal practices meet state regulations including waste tracking where required.	Minor	Rare	Low
Spill waste from admixture	Generation and disposal of waste mould oil drums.	Waste mould oil drums are in an area that will not contaminate any watercourse, waterway, groundwater, wetland or lake and soil.	Minor	Rare	Low

Raw material storage	Wind blown dust from materials stored in overhead bins/hoppers, from conveying raw materials and from front end-loaders.	m conveying raw materials and bins, the swivel chute area, transfer point from the conveyors, conveyor belts which are exposed to the wind, and hopper			
Raw material storage	Wind blown dust from materials stored in overhead bins/hoppers, from conveying raw materials and from front end-loaders.	Flexible joints, flexible sleeves, fabric filters, visual alarms and other control equipment that minimises dust and other releases in the concrete batching process are included in the site's maintenance schedule to identify wear, tear and ensure effective operation. Overhead bins and conveyors covered.	Minor	Rare	Low
Operation of front end loaders	Consumption of fuel by front end loaders	Fuel consumption by front end loaders is controls and management systems are in place. Services in control. No managed by the site.	Minor	Rare	Low
Operation of plant equipment	Consumption of electricity in plant equipment.	Management systems are in place to reduce energy emissions	Minor	Rare	Low
Operation of material transfer equipment	Noise from material transfer equipment e.g conveyors and bin vibrators.	Hoppers are lined with a sound absorbing material such as rubber.	Minor	Rare	Low
Operation of material transfer equipment	Noise from material transfer equipment e.g conveyors and bin vibrators.	Consideration of limiting noisy activity to daytime hours if located near a noise sensitive area.	Minor	Rare	Low
Operation of front end loaders	Noise from front end loader operating in yard.	Roads and plant site are sealed with concrete or bitumen.	Minor	Rare	Low
Operation of front end loaders	Noise from front end loader operating in yard.	Residential grade mufflers are fitted to engines. Visual alarms are used in preference to audible alarms.	Minor	Rare	Low
Raw material waste	Generation of waste resulting from raw materials transfer e.g. admixtures, conveyor spillage, cement spillage.	e.g. Waste associated raw materials transfer is disposed of in		Rare	Low
Raw material waste	Generation of waste resulting from raw materials transfer e.g. admixtures, conveyor spillage, cement spillage.	Wastes are appropriately segregated (e.g. oils separated or general refuse.)	Minor	Rare	Low

Raw material waste	Generation of waste resulting from raw materials transfer e.g. admixtures, conveyor spillage, cement spillage.	All transport and disposal practices meet state regulations including waste tracking where required. Centralised waste collection that is tracked and monitored.	Minor	Rare	Low
Loading Agitator					
Transportation of cement	Generation of dust from loading concrete into agitators	Dust extraction is fitted to the loading bay and operates during loading. Any dust generated gets pushed back to the load through an Auger through to the slide.	Minor	Rare	Low
Transportation of cement	Noise from mixing operation or agitators.	Roads and plant pavements are sealed with concrete or bitumen.	Minor	Rare	Low
Transportation of cement	Noise from mixing operation or agitators.	Residential grade mufflers are fitted to engines. Visual alarms are used in preference to audible alarms.	Minor	Rare	Low
Loading/unloading of agitators	Generation and release of dust from the mixing process.	Loading bay is roofed and enclosed on at least three sides	Minor	Rare	Low
Loading/unloading of agitators	Generation and release of dust from the mixing process.	Flexible curtains are fitted to the open sides of the loading bay where required to minimise dust emissions	Minor	Rare	Low
Concrete batching	Water drawn from public main water system	Reclaimed water used in batching process	Minor	Rare	Low
Loading/unloading of agitators	Noise from mixing operation or agitators.	Consideration of limiting noisy activity to daytime hours if located near a noise sensitive area.	Minor	Rare	Low
Concrete waste	Generation of waste from the mixing process or reject batches.	Reject batches are recycled or disposed of in accordance to state based waste management guidelines.	Minor	Rare	Low
Management of truck wash	Generation of wastewater from washing the mixer.	Trucks are washed in designated area at the plant where wastewater is captured and retained on site.	Minor	Rare	Low
Management of truck wash	Washing out of the mixer.	Trucks are washed in a designated area at the plant where wastewater is captured and retained on site.	Minor	Rare	Low
Management of truck wash	Washing out of the mixer.	Any runoff from waste storage areas is directed to waste settling pits. Water levels in settling pits is controlled to ensure that contaminated wastewater does not enter the stormwater system.	Minor	Rare	Low
Management of truck wash	Washing out of the mixer.	Washout and slurry waste is transported and disposed on in accordance with state based waste management guidelines.	Minor	Rare	Low

Concrete Delivery					
Loading/unloading of agitators	Spillage of concrete during transport	All drivers have been made aware of their environmental responsibilities (via formal training that includes delivery site waste management, truck wash-down and tracking material onto roadways, concrete spills on roadways and noise minimisation measures.		Rare	Low
Loading/unloading of agitators	Spillage of concrete during transport	At customer sites spill/sediment controls are in place before pouring commences if concrete is delivered from the street.	Minor	Rare	Low
Loading/unloading of agitators	Spillage of concrete during transport	Concrete spillage is prevented from entering stormwater drains or gutters.	Minor	Rare	Low
Transport of cement	Consumption of fuel by delivery vehicles	Management of deliveries to reduce fuel usage e.g. fuel efficiency driving training for agitator drivers	Minor	Rare	Low
Transport of cement	Noise from trucks delivering concrete.	Windr			
Transport of cement	Noise from trucks delivering concrete.	Consideration of limiting driving through noise sensitive areas during early mornings and evenings	Minor	Rare	Low
Transport of cement	Spillage of concrete during transport.	All drivers have been made aware of their environmental responsibilities (via formal training that includes delivery site waste management, truck wash-down and tracking material onto roadways, concrete spills on roadways and noise minimisation measures.		Rare	Low
Transport of cement	Spillage of concrete during transport.	At customer sites spill/sediment controls are in place before pouring commences if concrete is delivered from the street.	Minor	Rare	Low
Transport of cement	Spillage of concrete during transport.	Concrete spillage is prevented from entering stormwater drains or gutters.	Minor	Rare	Low
Concrete waste	Disposal of any waste concrete generated in event of a spill or if excess concrete ordered.	Return concrete is re-sold or disposed of in accordance to state based waste management guidelines.		Rare	Low
Truck Washout					
Dust from washout bins	Release of dust during dry windy weather from concrete drying bin.	Effective management systems are in place to ensure that concrete bins are not overfilled.	Minor	Rare	Low

Dust from washout bins	Release of dust during dry windy weather from concrete drying bin.	Concrete drying bins are by groud bin walls and have an awning on top.	Minor	Rare	Low
Concrete waste	Unauthorised burial of concrete waste on / near property.	Concrete waste is transported and disposed of in accordance with state based waste management guidelines.	Minor	Rare	Low
Concrete waste	Generation of concrete waste water resulting from runoff from washout enclosures	Any runoff from waste storage areas is directed to waste settling pits. Water levels in settling pits is controlled to ensure that contaminated wastewater does not enter the stormwater system.	Minor	Rare	Low
Concrete waste	Generation of concrete waste resulting from excess concrete	Washout waste and return concrete is stored in above ground washout enclosures. There is a minimum of two (2) washout pits per site.	Minor	Rare	Low
Concrete waste	Generation of concrete waste resulting from excess concrete	Washout and slurry waste is transported and disposed on in accordance with state based waste management guidelines.	Minor	Rare	Low
Concrete waste	Generation of concrete waste resulting from excess concrete	Solids that accumulate in in-ground pits are regularly cleaned out.	Minor	Rare	Low
Housekeeping of washout enclosures	Spillage of concrete and/ or poor housekeeping of washout enclosures impacting water quality.	Washout enclosures are regularly cleaned out to ensure they are not overfilled.	Minor	Rare	Low
Housekeeping of washout enclosures	Spillage of concrete and/ or poor housekeeping of washout enclosures impacting water quality.	Any spills of cement, fly ash or liquids are cleaned up immediately.	Minor	Rare	Low
Housekeeping of washout enclosures	Spillage of concrete and/ or poor housekeeping of washout enclosures impacting water quality.	Any spills are appropriately reported and investigated based on potential risk, including the generation of corrective actions. INX entry.	Minor	Rare	Low
Truck Washing					
Storage of truck washing chemicals	Potential to impact soil if acid substance not suitably stored in a bunded area.	All liquid fuels and chemicals are stored in a bunded area. Liquid fuels and chemicals can include admixtures, truck wash acids and chemicals, fuels and oils. All liquid fuels and chemicals are to be managed in accordance with the bunding guidelines.	Minor	Rare	Low
Storage of truck washing chemicals	Potential to impact soil if acid substance not suitably stored in a bunded area.	Above ground recycled water storage tanks are managed such that any spills/leaks are contained on site. E.g Capacity in in- ground pits is maintained to allow for spills/leaks from recycled water tanks or tanks are bunded.	Minor	Rare	Low

Storage of truck washing chemicals	Potential to impact soil if acid substance not suitably stored in a bunded area.	Bunded areas are regularly maintained. This includes: Checking and inspecting integrity of bund., minimising ponding of stormwater by regular clean out of the bund, acting upon spills as soon as they are identified., and checking that any valves are sealed and kept in the close position	Rare	Low	
Storage of truck washing chemicals	Potential to impact soil if acid substance not suitably stored in a bunded area.	Corrosives are stored in a dedicated, well ventilated and secured bunded area.	Minor	Rare	Low
Storage of truck washing chemicals	Potential to impact soil if acid substance not suitably stored in a bunded area.	A compliance review against dangerous goods storage requirements has been conducted.	Minor	Rare	Low
Designated truck wash areas	Impacting water quality should any wash water enter stormwater drains (e.g washing vehicles in non designated wash areas).	The area of the site that generates contaminated stormwater is minimised (clean, dirty and contaminated areas can often be segregated by the use of speed humps and bunds which divert runoff to appropriate locations.)	Minor	Rare	Low
Designated truck wash areas	Impacting water quality should any wash water enter stormwater drains (e.g., washing vehicles in non designated wash areas).	During a rain event, the first 20mm (i.e first flush volume) that falls in the 'contaminated area' of the plant is captured and stored for reuse. When rainfall ceases, this first flush water is used at the earliest opportunity.		Rare	Low
Designated truck wash areas	Impacting water quality should any wash water enter stormwater drains (e.g., washing vehicles in non designated wash areas).	Trucks are washed in designated area at the plant where wastewater is captured and retained on site.	Minor	Rare	Low
Truck wash waste	Generation and disposal of wash water containing dilute acid.			Rare	Low
Truck wash waste	Generation and disposal of wash water containing dilute acid.	sh Water captured in the designated dirty area drains to the sites Mino		Rare	Low
Truck wash waste	Generation and disposal of wash water containing dilute acid.	The area of the site that generates contaminated stormwater is minimised (clean, dirty and contaminated areas can often be segregated by the use of speed humps and bunds which divert runoff to appropriate locations.)		Rare	Low
Truck wash waste	Disposal of acid containers.	Wastes are appropriately segregated (e.g. oils separated from general reuse.)	Minor	Rare	Low

Truck wash waste	Disposal of acid containers.	All transport and disposal practices meet state regulations including waste tracking where required.	Minor	Rare	Low
Plant and vehicle main	ntenance				
Routine maintenance activities	Minimising exhaust emissions through regular maintenance of vehicles.	Scheduled maintenance checks of trucks, loaders and other machinery is conducted and recorded in vehicle logbook.	Minor	Rare	Low
Routine maintenance activities	Minimising exhaust emissions through regular maintenance of vehicles.	Exhaust emissions of mobile equipment are not excessively smoky, and are in compliance with emission standards	Minor	Rare	Low
Routine maintenance activities	Noise from maintenance activities.	Noise complaints are documented, investigated and corrective actions executed where required.	Minor	Rare	Low
Routine maintenance activities	Noise from maintenance activities.	Maintenance activities that occur outside normal operating hours need to ensure that noise impacts on neighbours are minimised.	Minor	Rare	Low
Routine maintenance activities	Noise from maintenance activities.	Maintenance is conducted only during day time hours unless permitted by site approval. Licence conditions.	Minor	Rare	Low
Truck servicing	CFC emissions from truck air conditioners	Servicing air conditioners in vehicles for CFC management.	Minor	Rare	Low
Waste from maintenance activities	Impacting water should there be a spill of waste oil during maintenance or storage of maintenance associated waste.	Fluids released during machinery maintenance operations are collected and removed to an approved disposal site or are recycled.	Minor	Rare	Low
Waste from maintenance activities	Lare suitably stored labelled and disposed of at appropriately		Minor	Rare	Low
Waste from maintenance activities	Impacting water should there be a spill of waste oil during maintenance or storage of maintenance associated waste.	Good housekeeping ensures that there is no spillage of oils or lubricants.	Minor	Rare	Low

Waste from maintenance activities	Impacting water should there be a spill of waste oil during maintenance or storage of maintenance associated waste.	oil during or storage ofAll refuelling and routine maintenance on vehicles is undertaken within designated service areas.Minor		Rare	Low
Waste from maintenance activities	Generation and disposal of waste oil, used tyres, oil filters, parts, batteries and steel	Wastes are appropriately segregated (e.g. oils separated from general refuse.)	Minor	Rare	Low
Waste from maintenance activities	Generation and disposal of waste oil, used tyres, oil filters, parts, batteries and steel	Waste associated with any spills is disposed of in accordance to State requirements	Minor	Rare	Low
Waste from maintenance activities	Generation and disposal of waste oil, used tyres, oil filters, parts, batteries and steel	Wastes including waste oil, batteries, filters, coolant, tyres and scrap steel are suitably stored, labelled and disposed of or recycled at appropriately licensed facilities.	Minor	Rare	Low
Water Management Sy	ystem				
Operation of water management equipment	Consumption of fuel by equipment.	Management systems are in place to reduce fuel emissions of equipment	Minor	Rare	Low
Operation of water management equipment	Consumption of electricity by equipment.	Management systems are in place to reduce energy emissions of equipment	Minor	Rare	Low
Operation of water management equipment	Noise impact from pumps and motors linked to water management system.	Compressors and pumps are enclosed.	Minor	Rare	Low
Operation of water management equipment	Noise impact from pumps and motors linked to water management system.	ater Silencing devices are fitted to all pressure operated equipment.		Rare	Low
Operation of water management equipment	Noise impact from pumps and motors linked to water management system.	Where possible noisy equipment is located behind physical barriers, e.g Stockpile areas and buildings and away from potential sources of conflict e.g Residential neighbours.	Minor	Rare	Low
Water storage	Impact water quality if dirty water enters stormwater system (e.g., leak from recycled water tank).	A separate drainage system to discharge clean stormwater from the site is available (e.g Stormwater from car parks and office building roofs)	Minor	Rare	Low

Water storage	Impact water quality if dirty water enters stormwater system (e.g., leak from recycled water tank).	Minor	Rare	Low	
Water storage	Impact water quality if dirty water enters stormwater system (e.g leak from recycled water tank).	The area of the site that generates contaminated stormwater is minimised (clean, dirty and contaminated areas can often be segregated by the use of speed humps and bunds which divert runoff to appropriate locations.)	Minor	Rare	Low
Water storage	Impact water quality if dirty water enters stormwater system (e.g., leak from recycled water tank).	Any excess wastewater (with high pH and/or with high solids content) is disposed of via an appropriately licensed waste contractor.	Minor	Rare	Low
First flush system	Rainwater flushing out water management system resulting in dirty water overflows.	During a rain event, the first 20mm (i.e., first flush volume) that falls in the 'contaminated area' of the plant is captured and stored for reuse. When rainfall ceases, this first flush water is used at the earliest opportunity	Minor	Rare	Low
First flush system	Rainwater flushing out water management system resulting in dirty water overflows.	To enable the containment of the 20mm of contaminated rainwater, the first flush pit is maintained in an empty state during dry weather, or alternatively, appropriate freeboard is maintained in pits.	Minor	Rare	Low
First flush system	Rainwater flushing out water management system resulting in dirty water overflows.	Following the capture of first flush, subsequent rainfall bypasses the first flush pit system and drains to stormwater as clean runoff	Minor	Rare	Low
First flush system	Rainwater flushing out water management system resulting in dirty water overflows.	Where the first flush system relies on pumps to maintain control of overflows, backup pumps are available.	Minor	Rare	Low
Water contamination	Spill of high pH (alkaline) wastewater causing dirty water to enter stormwater system.	Slumping is carried out within contaminated area of the plant.	Minor	Rare	Low
Water contamination	Spill of high pH (alkaline) wastewater causing dirty water to enter stormwater system.	using dirty water to It is not placed in a position where contaminated runoff or the		Rare	Low
Water contamination	Spill of high pH (alkaline) wastewater causing dirty water to enter stormwater system.	Any material spills during the loading process are cleaned up daily	Minor	Rare	Low

Water contamination	Seepage of high pH water into water table.	Sites are fully sealed, or additional sediment controls are in place for unsealed areas of the site.	Minor	Rare	Low
Storage and handling	g of chemicals				
Soil contamination	Impacting soil from spills of liquid fuel and chemicals e.g oils, acids.	Waste associated with any spills is disposed of in accordance to State requirements.	Minor	Rare	Low
Soil contamination	Impacting soil from spills of liquid fuel and chemicals e.g oils, acids.	Any spills are promptly cleaned up.	Minor	Rare	Low
Soil contamination	Impacting soil from spills of liquid fuel and chemicals e.g oils, acids.	Any spills are appropriately reported and investigated based on potential risk, including the generation of corrective actions.	Minor	Rare	Low
Soil contamination	Impacting soil from spills of liquid fuel and chemicals e.g oils, acids.	A documented spill response procedure is in place and employees have been trained in its use	Minor	Rare	Low
Soil contamination	Soil contamination resulting from storing liquids in unbunded areas.	All liquid fuels and chemicals are stored in a bunded area. These substances can include fuels, lubricants, oils, coolant and other chemicals.	Minor	Rare	Low
Soil contamination	Soil contamination resulting from storing liquids in unbunded areas.	All liquid fuels and chemicals are stored in a bunded area. These substances can include fuels, lubricants, oils, coolant and other chemicals.	Minor	Rare	Low
Water contamination	Impacting water quality from spills of liquid fuel and chemicals e.g. oils, acids.	Wastes associated with liquid fuels and chemicals are disposed of in accordance with state requirements.	Minor	Rare	Low
Water contamination	Impacting water quality from spills of liquid fuel and chemicals e.g. oils, acids.	Emergency spill kits are in place in high risk-areas	Minor	Rare	Low
Water contamination	Water contamination resulting from storing liquids in unbunded areas.	Emergency spill kits contain materials appropriate for cleaning up and containing most likely spills e.g Floating booms to contain liquid fuel spills into nearby water bodies.	Minor	Rare	Low
Water contamination	Water contamination resulting from storing liquids in unbunded areas.	Waste is stored in an area that will not contaminate any watercourse, waterway, groundwater, wetland or lake and soil.	Minor	Rare	Low
Water contamination	Water contamination resulting from storing liquids in unbunded areas.	Liquid wastes are stored in accordance with state bunding requirements.	Minor	Rare	Low

Waste from spillage	Generation of waste in the event of a spill (e.g spill response material such as absorbent socks).	Spill response equipment is available and readily accessible in high-risk areas. E.g. fuel storage areas	Minor	Rare	Low
Waste from spillage	Generation of waste in the event of a spill (e.g., spill response material such as absorbent socks).	Operators remain with their vehicle at all times during the delivery of fuel and chemicals to permit immediate response in the event of any spill or leakage.	Minor	Rare	Low
Waste from spillage	Generation of waste in the event of a spill (e.g., spill response material such as absorbent socks).	A documented spill response procedure is in place and employees have been trained in its use.	Minor	Rare	Low
Waste from spillage	Generation of waste in the event of a spill (e.g., spill response material such as absorbent socks).	Any spills are appropriately reported and investigated based on potential risk, including the generation of corrective actions.	Minor	Rare	Low
Waste from spillage	Generation of waste in the event of a spill (e.g., spill response material such as absorbent socks).	Spill response equipment is regularly maintained including replacement of used equipment.	Minor	Rare	Low
Waste from spillage	Generation of waste in the event of a spill (e.g., spill response material such as absorbent socks).	Any spills are promptly cleaned up. Entered on INX.	Minor	Rare	Low
Other Aspects					
Fuel Tank	Rupture of the fuel tank.	Fuel tanks on the right may possible rupture during manoeuvring. However this is in a contained area.Minc		Unlikely	Low

# 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

Pollutant	Storage Location	Current SDS Held Yes/No	Emission control equipment (1)	<b>PPE</b> (1)	Spill Clean Up Method (1)
Ad mixtures and Cleaning Chemicals	Undercover Chemical Storage Bay	Yes	Sand, Spill Kits	PVS gloves, safety glasses, goggles	Large Spill     Assess     Quickly assess the spill:     Decide whether to handle the situation by yourself or if you require help.     Advise your team of the hazard     Post a guard or barricade     Can you stop the source of the spill?     Ensure Personal Safety     First priority is to ensure safety of yourself and others in the area     Consider evacuation and isolation.     Do you or others require PPE     Check Safety Data Sheet     Secure     Secure the spill     If hazardous to public or other staff exists     Post a guard immediately     Enter barricades to prevent unintended access     Contain     Contain the spill quickly by surrounding with the booms which should be firmly secured in place.     Find the source of the leak and stop it     Emergency stop, cap, plug, move, adjust     Move other containers from that area to a bunded area     In the case of spillage on water, prevent the spread of     product by the use of suitable barrier equipment.

Pollutant	Storage Location	Current SDS Held Yes/No	Emission control equipment (1)	<b>PPE</b> (1)	Spill Clean Up Method (1)
					Prevent
					Prevent spillage to stormwater drains and entry into sewer, water courses, basements or confined areas.
					Absorb
					Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place into a container according to local legislation.
					Recover product from the surface.
					Use spark-proof tools and explosive proof equipment. Dispose of via a licensed waste disposal contractor
					Disposal
					Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place into a container according to local legislation.
					Use spark-proof tools and explosive proof equipment. Dispose of via a licensed waste disposal contractor.
					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.
					Reporting
					Incident and Corrective and Preventative action should be captured on the INX.

Pollutant	Storage Location	Current SDS Held Yes/No	Emission control equipment (1)	PPE (1)	Spill Clean Up Method (1)
					Small Spill     Stop leak without risk.     Move containers from spill area     Absorb with an inert material and place in appropriate waste disposal container.     Use spark-proof tools and explosion-proof equipment.     Dispose of via a licensed waste disposal contractor.
Vehicle fluids and Lubricants	Lubricants Container	Yes	Sand, earth, vermiculite, barrier equipment (booms, floats etc.)	PVC Gloves, safety glasses, goggles	Large Spill     Assess     Quickly assess the spill:     Decide whether to handle the situation by yourself or if you require help.     Advise your team of the hazard     Post a guard or barricade     Can you stop the source of the spill?     Ensure Personal Safety     First priority is to ensure safety of yourself and others in the area     Consider evacuation and isolation.     Do you or others require PPE     Check Safety Data Sheet     Secure     Secure the spill     If hazardous to public or other staff exists     Post a guard immediately

Pollutant	Storage Location	Current SDS Held Yes/No	Emission control equipment (1)	<b>PPE</b> (1)	Spill Clean Up Method (1)
					Enter barricades to prevent unintended access
					Contain
					Contain the spill quickly by surrounding with the booms which should be firmly secured in place. Find the source of the leak and stop it Emergency stop, cap, plug, move, adjust Move other containers from that area to a bunded area In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment.
					Prevent
					Prevent spillage to stormwater drains and entry into sewer, water courses, basements or confined areas.
					Absorb
					Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place into a container according to local legislation.
					Recover product from the surface.
					Use spark-proof tools and explosive proof equipment. Dispose of via a licensed waste disposal contractor
					Disposal
					Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place into a container according to local legislation.
					Use spark-proof tools and explosive proof equipment. Dispose of via a licensed waste disposal contractor.

Pollutant	Storage Location	Current SDS Held Yes/No	Emission control equipment (1)	<b>PPE</b> (1)	Spill Clean Up Method (1)
					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.
					Reporting
					Incident and Corrective and Preventative action should be captured on the INX.
					Small Spill
					Stop leak without risk.
					Move containers from spill area
					Absorb with an inert material and place in appropriate waste disposal container.
					Use spark-proof tools and explosion-proof equipment.
					Dispose of via a licensed waste disposal contractor.
Truck wash	Undercover Bunded	Yes	Sand, spill kits	PVC Gloves, safety glasses	Large Spill
	Fuelling Area				Assess
					Quickly assess the spill:
					Decide whether to handle the situation by yourself or if you require help. Advise your team of the hazard Post a guard or barricade Can you stop the source of the spill?

Pollutant	Storage Location	Current SDS Held Yes/No	Emission control equipment (1)	PPE (1)	Spill Clean Up Method (1)
					Ensure Personal Safety
					First priority is to ensure safety of yourself and others in the area Consider evacuation and isolation. Do you or others require PPE Check Safety Data Sheet
					Secure
					Secure the spill If hazardous to public or other staff exists Post a guard immediately Enter barricades to prevent unintended access
					Contain
					Contain the spill quickly by surrounding with the booms which should be firmly secured in place. Find the source of the leak and stop it Emergency stop, cap, plug, move, adjust Move other containers from that area to a bunded area In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment.
					Prevent
					Prevent spillage to stormwater drains and entry into sewer, water courses, basements or confined areas.
					Absorb
					Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place into a container according to local legislation.
					Recover product from the surface.
					Use spark-proof tools and explosive proof equipment. Dispose of via a

Pollutant	Storage Location	Current SDS Held Yes/No	Emission control equipment (1)	PPE (1)	Spill Clean Up Method (1)
					licensed waste disposal contractor
					Disposal
					Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place into a container according to local legislation.
					Use spark-proof tools and explosive proof equipment. Dispose of via a licensed waste disposal contractor.
					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.
					Reporting
					Incident and Corrective and Preventative action should be captured on the INX.
					Small Spill
					Stop leak without risk.
					Move containers from spill area
					Dilute with water and mop up, or absorb with an inert dry material and place in appropriate waste disposal container
					Dispose of via a licensed waste disposal contractor.

(1) This information should be drawn from a review of the SDS or Manufacturer / Supplier Technical Information

# 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 coarse 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.

### Refer to maps at the end of this document

# 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 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:

Assess
Stop
Notify
Contain
Mitigate

6) Clean up

7) Review

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


Contain	<ul> <li>Utilise barriers (absorbent booms, banks of soil or any other safe objects) or spill absorbent to prevent the emission from spreading.</li> <li>When an emission is on a hard surface use appropriate absorbent materials ie absorbent granules or sand</li> <li>The main priority is to prevent the emitted material from discharging off site</li> </ul>
Mitigate	<ul> <li>Implement environmental controls downstream of pollution source to prevent/minimise further impact to receiving environment</li> <li>Example:</li> <li>A Fuel spill discharged into quarry dam. Mitigation controls to ensure this spill is not spread may include closing of weirs, or outlets, ensuring water cart does not fill from affected dam etc.</li> </ul>
Clean -up	<ul> <li>Clean up and remedial actions to restore the environment</li> <li>Disposal of pollutants in accordance with regulations</li> <li>Refer to the Pollution Information Data Sheets (PIDS) for information on handling pollutants and the clean-up process.</li> </ul>
Review	<ul> <li>Conduct an investigation into the event and assist the EPA and investigators with external enquiries</li> <li>Complete internal reporting;</li> <li>As per Holcim SHE requirement 5.1</li> <li>Test the effectiveness of Pollution Incident Response Management Plan annually and one month after the incident to ensure controls are replenished.</li> <li><i>Testing protocol is provided in appendix B</i></li> </ul>

### 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 been 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

### 8 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.

### 9 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

Appendix A - Emergency Contact Details

Revised: May 2019



Contacts	Name and Phone Number
Individuals responsible for activating the plans and managing the response	Mohammad Darabi- 0428 783 068 Allan Woods- 0490 292 269 Hornsby Plant- 02 9484 7842
Individuals Authorised to Notify and Coordinate Relevant Authorities	Mohammad Darabi- 0428 783 068
Emergency Services	000
EPA	131 555
The Ministry of Health via the local Public Health Unit	Sydney Adventist Hospital- 02 9487 9111
SafeWork NSW (formerly WorkCover)	13 10 50
Hornsby Shire Council (If this is not DECCW)	02 9839 6000
(List of NSW Local Council Phone Numbers www.dlg.nsw.gov.au/dlg/dlghome/dlg_localgovdir ectory.asp)	
Fire and Rescue NSW	000
Additional Contacts relevant to the licensee's premises	
Other Organisations or agencies that need to be advised of the incident	



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# Appendix B - Pollution Incident Response Test Checklist

Pollution Incident Scenario:

### 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 Planning & Environmental Coordinator;

4. Planning & Environmental Coordinator 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	Phone Numbers		
to date? This list is to be verified at least annually and updated whenever an organization advises that a change has occurred.	Currency	Updated Number	
Individuals responsible for activating the plans and managing the response			
Individuals Authorised to Notify and Coordinate Relevant Authorities			
Emergency Services			
EPA			
The Ministry of Health via the local Public Health Unit			
WorkCover Authority			
Local Council			
Fire and Rescue NSW			
Additional Contacts relevant to the licensee's premises			
Other Organisations or agencies that need to be advised of the incident			

Environmental Hazards and Control Standards	Yes/ No	Actions	Person responsible	Due date
Are the descriptions of environmental hazards up to date?				
Are the potential and likelihood of incidents that could occur still correct and relevant to the site operations?				
Are the pre-emptive actions for risk management of the relevant activity correct and relevant to the site?				
Is there an inventory of pollutants (including quantities of pollutants onsite)?				
Is the listed safety equipment & PPE correct and up to date?				
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				
Are the nature and objectives of staff training set out in the plan?				
Are there details of mechanisms for providing early warnings and regular updates to the owners and occupiers?				
Is there a copy of the plan onsite and up to date?				

Has there been an evacuation drill in the last 12 months?
Date:
Notes:

Improvements to the Pollution Incident Response Management Plan:

- 1)
- 2)
- ,
- 3)
- 4)
- 5)
- 6)

### Comments / Recommendations / Review

1)
 2)
 3)
 4)
 5)
 6)
 7)
 8)
 9)
 10)

Pollution Incident Response Test Checklist Assessor:

Signed:

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# Appendix C – Community Notification Strategy

Revised Oct 2019 46



In an emergency if the spill has the potential to cause harm to the following stakeholders they will be contacted by telephone or face-to-face

Stakeholder Component	Name	Contact Information
Neighbouring property	Tupperware	(02) 9980 2000
Neighbouring property	West Wadding	(02) 9489 4562
Neighbouring property	Omega Services	1300 806 683
Neighbouring property	Northside Auto Group	0414 426 519
Neighbouring property	Panel Plus	(02) 9875 1919
Neighbouring property	Chilverleigh Early Learning	(02) 9875 4577











