

MULGRAVE PRECAST – MULGRAVE

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1. PREVENTATIVE MECHANISMS

1(a) Hazards to health and the environment:

To minimise risk to human health and the environment the Mulgrave site has an **Environmental Aspect Register** which includes pre-empted hazards, sources for those hazards, risk assessments and controls. This can be found in the **Environmental Management Plan**. For all work methods when performing a task refer to the Integrated Risk Management System (IRMS).

Hazardous areas on site:

- Dust
- Hydraulic Lines
- Water contamination

RISK MATRIX:

A risk score was assigned to each of the list hazards using the follow risk matrix.

		CONSEQUENCE				
		Insignificant	Minor	Moderate	Serious	Major
LIKELIHOOD	Almost Certain	11	16	20	23	25
	Likely	7	12	17	21	24
	Occasional	4	8	13	18	22
	Unlikely	2	5	9	14	19
	Rare	1	3	6	10	15

RISK SCORE	RISK LEVEL	REQUIRED LEVEL OF ACTION AND TIME FRAME FOR ACTIONS
1-6	Low Risk	Check current controls for adequacy and communicate hazards identified and their controls to the work group. No further actions / controls necessary (possibly consider new controls).
7-15	Moderate Risk	Some action required. Action may be administrative and / or PPE if higher levels of controls are not practicable
16-19	High Risk	Immediate action required above Admin and PPE to control the hazard where possible. Look for longer term solutions to reduce risk on an ongoing basis
20-25	Extreme Risk	Activity must not commence / activity must stop immediately until actions have been implemented so far as to control the hazards to an acceptable level (below 20).

Water Contamination: Risk Score 14

To prevent discharge into the storm water system, all hazardous liquid materials including; diesel, petroleum, admixtures and lubricants, are stored in bunded areas. These bunds are routinely inspected and are cleared after any major rain event so as to maintain efficient capture levels.

Dust: Risk Score 8

Dust can be an issue to human health dependant on the amount of exposure and composition of the dust. To protect all persons working on site, site specific Risk Assessments and Safe Work Methods are in place for specific tasks where PPE is mandated dependant on the work being carried out.

Dust suppression is in place in key areas to minimise the dust using water sprayers on bin stored aggregates. Feeder conveyors are also covered to reduce dust.

Dust monitoring is regularly carried out as well

Hydraulic Lines: Risk Score 10

To maintain the integrity of hydraulic line, regimented inspections are carried out and hoses and connections during the servicing and inspections of mobile plant.

In the event of a line rupture clean-up is implemented by using a spill kit, and the area will be sealed off by placing or creating bunding around the spill area.

(1b) Pollutant Inventory:

Petroleum	-	6 x 20L stored in factory/primary bunded area.
	-	10 x 20 L GP thinners bunded.
	-	2 x 1000 L Prontosform
Lubricants	-	
	-	4 x 20 L Engine Coolant in workshop bunded area
	-	4 x 20 L Degreaser in workshop bunded area
	-	2 x 100 L Delo 400 15-40W in workshop bunded area
	-	1 x 205L Gear Oil 85-140W in workshop bunded area
	-	1 x 205 L Hydraulic oil 68 in workshop bunded area
	-	4 x 20 L Texamatic 1888 Transmission Fluid in workshop bunded areas
	-	Waste Oil
Admixtures	-	Grace GCP Products
	-	2 x 1000L Daraset AF
	-	1 x 1000L Adva 620
	-	1 x 1000L PN20
	-	Sika Products
	-	3 x 1000L Rapid AF
	-	2 x 1000L Control Plus
	-	3 x 500L Visco 5-500
	-	Betopro Products
	-	1 x 1000L Mixer Protection Oil
	-	Others
	-	Backset Molecular cement dissolver 40 L
	-	Premier 1 Truck wash 40 L
	-	Caltex engine oil 20L
	-	Caltex moly grease 20 Kg
Corrosives	-	2 x 20 L Phosphoric Acid stored and bunded in shed
	-	1 x 1000 L Sulphuric Acid stored and bunded at the rear of the factory
	-	1 1000 L Hydrochloric Acid in Factory on bunds
Mould Release oils	-	1 x 1000 L Betopro 560 in factory bunds
	-	4 x 205 L Form release oil
	-	2 x 200 L Styro 100
	-	1 X 100 L Betopro 570

(1c) Pollutant Locations

Storage and location of pollutants is indicated on the Mulgrave Factory – Plan Layout (attached) The Spill kits are located in each factory and batch plant and clearly labelled and displayed.

(1d) Early Warning Systems

Evacuation alarm is switched on and evacuation of the premises is carried out. Emergency Wardens are to work systematically through the factory and offices to make sure areas are clear.

(1e) Plan Implementation and Testing

Site emergency drills are conducted on an annual basis, these involve both areas of safety and environmental incidents; these are recorded and filed. This plan is to be used in conjunction with the Site Emergency Plan when conducting Emergency Drills.

2. INCIDENT RESPONSE

2(a)

STOP

Instigate the MULGRAVE Factory Site Emergency Plan

(Located in front office foyer and Main Lunchroom)

2(b) Procedural Implementation:

As soon as the alarm is raised, implement the Mulgrave's Emergency Procedures.

Follow the **SITE EMERGENCY RESPONSE** when coordinating procedures to combat any pollution caused by the incident. Refer to the section labelled **CHEMICAL SPILLS** located in the Site Emergency Plan, where the communications officer (Chief Warden/Manager) will be responsible for contacting the required authorities and relay all necessary information back to persons at the incident location.

Specific processes are in place dependant on the type of incident that has occurred within the Site Emergency Plan:

- **Environmental Chemical Spill** -
- Wet Product/Material Spill**
- **Dry Product/Material Spill**

2(c) Contact List:

Notify relevant persons or departments of pollution incident as soon as practicable (within 24hrs).

- | | |
|--|-----------------------|
| ➤ Appropriate Regulatory Authority (ARA) | EPA |
| ➤ The Environment Protection Authority (EPA) | 13 15 55 |
| ➤ The Ministry of Health | (02) 9391 9000 |
| ➤ SafeWork NSW Authority | 13 10 50 |
| ➤ The Local Authority (Hawkesbury Council) | (02) 4560 4444 |
| ➤ Fire and Rescue (NSW) | 000 |

The ARA for Hanson Precast – Mulgrave is the **EPA**

For information relating to plan implementation and contact information for liaising managers and site contact information refer to the **Site Emergency Plan** and the **Crisis Management Contact list**.

Managers contact details for the Mulgrave Site are as follows:

John Cammilleri – Factory Manager, mobile # 0401 255 734

Kristian Pepicelli – State Manager Precast, mobile # 0434 427 830

The above persons need to be contacted immediately following the incident.

If incident breaches boundaries, surrounding neighbours are to be contacted through face to face or information left at place of residence by a Hanson representative to notify them of the situation, convey any possible impacts and procedures in place to rectify the situation.

3. RECORD AND REVIEW:

3(a) Reporting Incidents

Incidents are to be reported in process with section **2(c) Contact List** of this document.

3(b) Investigation and Review

Following an incident an investigation will take place following the Hazard Identification, Quality and Environment reporting procedures. The findings will be published to relevant parties and reviewed by all relevant parties including any necessary outside parties.

Another emergency drill to test the Site Emergency Plan must be completed within one month of any incident requiring implementation of the plan occurring.

4. APPENDIX A

4(a) Referenced Material:

IRMS-Integrated Risk Management System:

- This contains policies, work methods, forms and checklists. These are written to comply with AS9001, AS14001, AS4801, state based WHS and environmental legislation.
- It covers an overview of emergency process control.
- This is intranet based.

Site Emergency Procedures:

- This contains actions required to deal with minor potential safety and environmental incidents. It outlines site emergency teams and site maps. It addresses material spills, hydraulic hose ruptures, etc...
- An annual emergency drill is carried out to assess the emergency plan. A hard copy is available at the site and an APP "ActivateNow"

Crisis Management Manual:

- This is used for significant safety and environmental incidents.
- It covers what needs to be done if there are major oil/fuel spill, major Vehicle accident, Fire, etc...
- It also includes a crisis contact list covering contact details for internal employees and external emergency resources
- Available in **RED CRISIS FOLDER** on the site.

EMP-Environmental Management plan:

- This is document detailing the overall environmental management of site. It forms part of the IRMS.
- It includes an impact and aspect register. The register environmental risks and how these are eliminated/controlled on site.