

Appendix D – Pollution Incident Response Management Plan.

1.1 Definition of a notifiable incident under S147 of the POEO Act.

Harm to the environment is material if:

- It involves actual or potential harm to the environment to the health or safety to human beings or to ecosystems that is not trivial.
- It results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and
- Loss includes the reasonable costs of expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.

1.2 Pollution Incident Response Process

Step 1: Emergency Response: Ensure personnel are safe.

Step 2: Minimise Impact: Contain the incident if possible.

Step 3: Notify the General Manager.

Step 4: General Manager to action or delegate the necessary notifications (section 1.10-1.11) if the pollution incident meets the definition of notifiable incident stated in section 1.1

6.3 Description and Likelihood of Hazards. Description	Risk
6.3.1 Air pollution incident Generation of toxic smoke and or vapour.	Low
6.3.2 Water Pollution Incident Escape of Liquid and/ or powdered chemicals potentially toxic to aquatic organisms and plants. Also potential could be a fire risk.	Low
6.3.3 Land pollution incident Escape of potentially toxic, powdered, or fuel off site to land, groundwater contamination.	Low

1.3 Pre-emptive actions

Dangerous and hazardous materials are used on site and may be involved in accidental spillage. Spill kits are distributed throughout the site for treatment of small to moderate spills. Spillage may cause serious and widespread environmental damage should it be allowed to leave the site and enter the main waterways. The spillage could result in contaminated water which could be toxic to humans, wildlife, flora and result in soil contamination. In addition, spillage of flammable material has the potential to generate a fire risk on the drainage route.

The consequences of any spill are highly dependent on its nature, amount of the material involved and the location of the spill. Cheminova receives regular deliveries of bulk

chemicals, including dangerous goods in drums, IBCs and via bulk tanker. The site also regularly distributes large quantities, including IBCs, of chemicals off site.

1.4 Spillage

Minor Spill <200L

- For any spillage of solid or liquid material, assume it is harmful and immediately obstruct nearby stormwater drains using available Flexibunds (in yellow bags).
- If a risk of stormwater contamination is present, close the plant weir gates using either the gate 2 gatehouse remote station or at any of the 3 activation stations at each weir gate on the site. Depressing the green button for 3 seconds will close the weir gate
- Avoid any contact with the substance or its vapours. Stay upwind of the spill.
- Where safety permits, isolate the source of the spillage. If unable to isolate, contain the spillage as close as possible to the source.
- As soon as practical call 224
- Consult SDS for the material for technical guidance on spill clean up
- Wear described protective clothing. Contain the spillage with sand, clay or the inert absorbent. **DO NOT HOSE SPILLAGE INTO DRAINS.**
- Shovel up contaminated absorbent and place into bags or drum, seal and label. Label with product name and weight. When as much absorbent as possible has been swept up the contaminated area may need to be decontaminated by mopping with a solution as advised by the area Supervisor. e.g. a 1% solution of sodium hypochlorite / bleach
- Equipment used in the cleanup process takes on the properties of the spilled product. Decontaminate where required.
- Ensure waste is placed on a separate pallet and taken to Environment (D1). Notify environment that waste has been placed in their area and advise them of the name of product and weight.

In the event of major spills the Company Emergency Commander shall ensure that Fire Brigade/Hazmat are notified.

1.5 Spillage –Tank Farm (Bulk Storage)

Minor Spill 200L or less

- Remove/ keep away all ignition sources (e.g. forklifts)
- Wear PPE Full face respirator with ABEK/P3 cartridge, PVC gloves, rubber boots. Contain and absorb small quantities with spill kit absorbent.
- Wipe, sweep up, with spark free shovels and explosion proof equipment. (Ideally brooms, and plastic brush, and pan or shovel.)
- Collect residues in a flammable waste container and label clearly.
- Inform site management and dispose of hazardous waste.
- Complete incident report in SIMS (site safety database system) detailing location, nature and amount of spill and actions.

Major Spill larger than 200L

- Remove/ keep away all ignition sources (e.g. forklifts etc.)
- Where spill involves flammable material Evacuate the site – press nearest evacuation alarm. Call 224
Staff to move to muster area along Lucca Road, if safe to do so and await further actions from the Emergency Commander. This may involve moving personnel further down Lucca Road and evacuating neighbouring properties.
- Wear PPE Full face respirator with organic ABEK/P3 cartridges, PVC gloves and rubber boots.
- Prevent spill from entering the drains, by using flexi bunds absorbent pads, and booms.
- Stop leak if safe to do so.
- Ensure adequate ventilation (e.g. if indoors, open all doors and windows to allow vapour to disperse). Water spray may be used to disperse vapour if necessary.
- Contain and absorb small quantities with zeolite granules, sand and earth.
- Wipe, sweep up, using spark free shovels and explosive proof equipment. (Ideally brooms and plastic brush and pan or shovel.
- Collect residues in a flammables waste container and label clearly.
- Complete incident report in SIMS (site safety database system) detailing location, nature and amount of spill and actions

1.6 Inventory of pollutants

Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)
A1.1.1	Roofed Store	450000Kg

UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
2783	ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC	6.1	5100Kg	II
3349	PYRETHROID PESTICIDE, SOLID, TOXIC	6.1	7000Kg	III
2588	PESTICIDE, SOLID, TOXIC, N.O.S.	6.1	20000Kg	II
3018	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC	6.1	23000L	I

Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)
A1.1.2	Roofed Store	150000L

UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
00C1	DIESEL	C1	15000L	
00C1	COMBUSTIBLE LIQUIDS C1	C1	15000L	
1805	PHOSPHORIC ACID	8	150Kg	III
1789	HYDROCHLORIC ACID	8	200L	III
2209	FORMALDEHYDE SOLUTION	8	320L	III
1760	CORROSIVE LIQUID, N.O.S.	8	5000L	I

Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)
C1.3	Roofed Store	10000Kg

UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
1823	SODIUM HYDROXIDE, SOLID	8	100Kg	II
1719	CAUSTIC ALKALI LIQUID, N.O.S.	8	1000L	II

Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)
D2	Roofed Store	300000Kg

UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
3272	ESTERS, N.O.S.	3	20000Kg	III
00C1	COMBUSTIBLE LIQUIDS	C1	20000L	

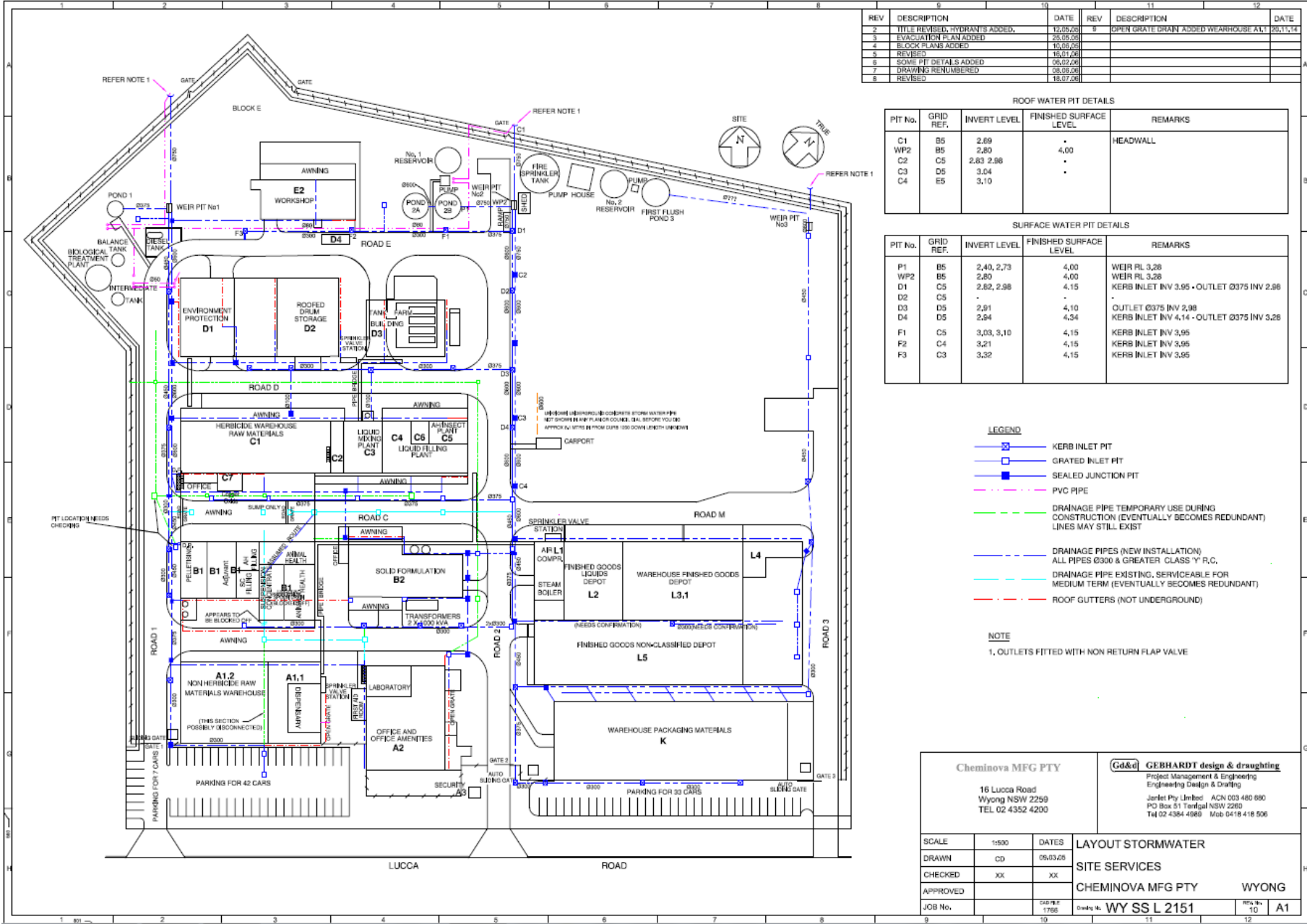
Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)
C1.1	Roofed Store	150000Kg

UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
3345	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, SOLID, TOXIC	6.1	18000Kg	
00C1	COMBUSTIBLE LIQUIDS C1	C1	30000L	

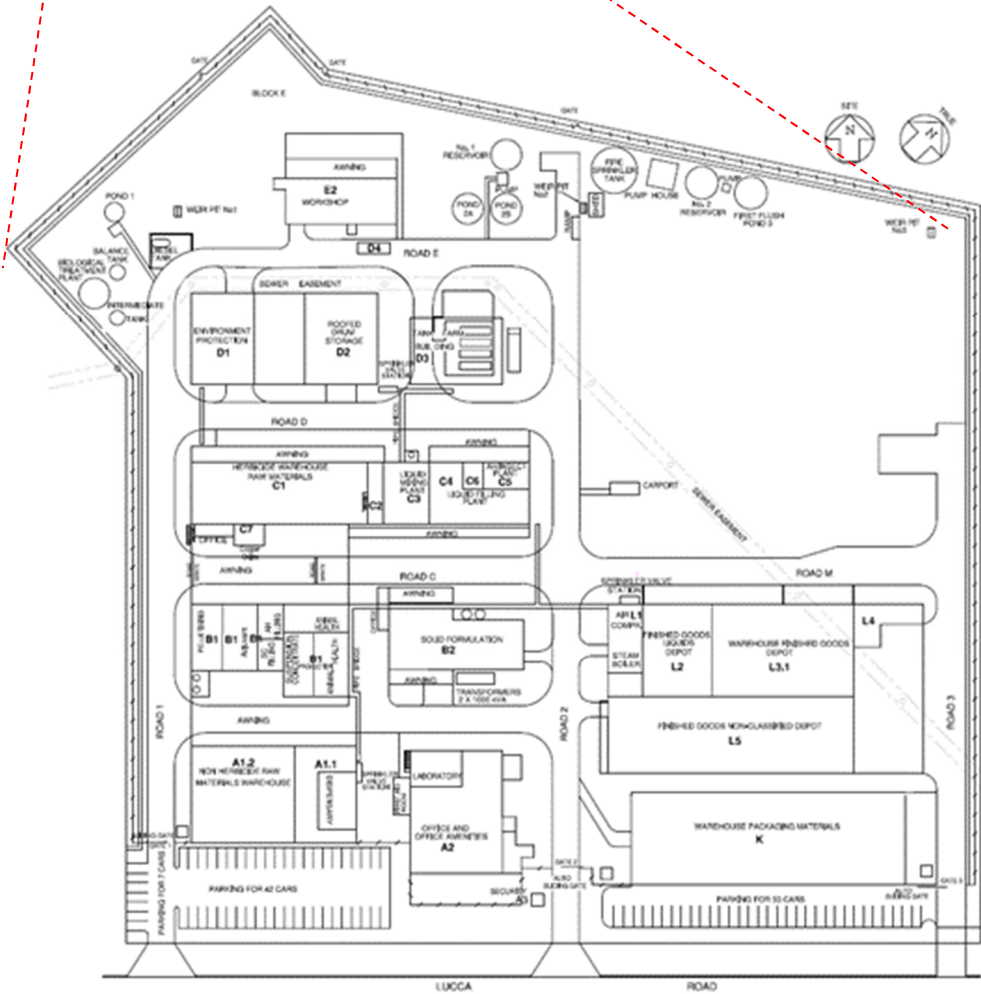
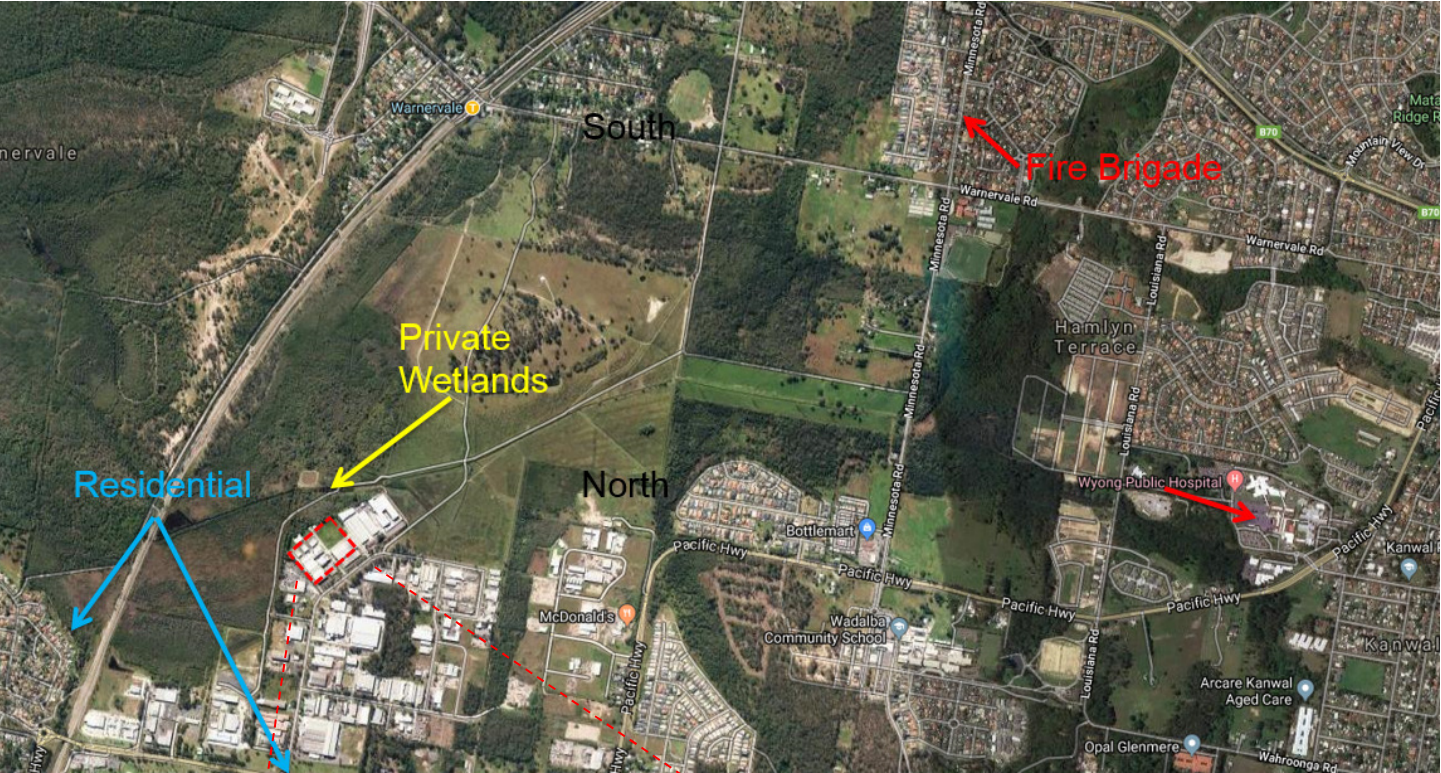
Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)
C1.2	Roofed Store	45000L

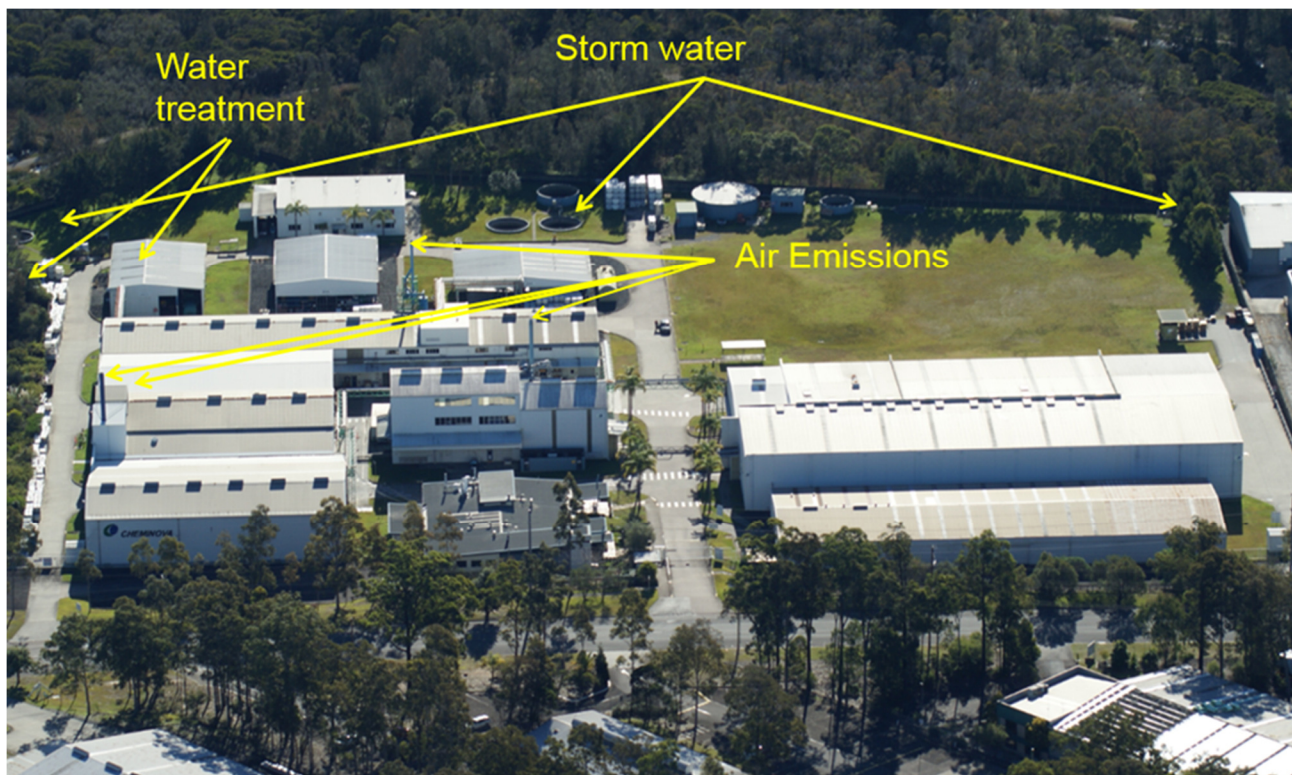
UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
1814	POTASSIUM HYDROXIDE SOLUTION	8	1000L	II
2015	HYDROGEN PEROXIDE, STABILIZED	5.1	200L	III
2672	AMMONIA SOLUTION, relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia	8	1000L	III
2922	CORROSIVE LIQUID, TOXIC, N.O.S.	8	2000L	I
3260	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	8	300L	II

1.7 Stormwater (site drawing WYSSL2151 – suite 1766)



1.8 Location and Potential Pollution Sources





1.9 Safety Equipment – Spill Response and Control

- **Bunding**
The site has a perimeter bund wall/levee. Each manufacturing building has internal bunding. Each Warehouse has bunding. Outside storage has ride-over bunding
- **Portable Bunding/Over drums**
Bunded pallets and various sized over drums for transportation of leaking containers
- **Road Water Capture system**
The site has a road storm water capture system of ponds and reservoirs to contain any large spills of contaminant on road surfaces during rain events
- **Drain Protectors**
Throughout the roadways there are mats and rubber booms to place over/in front of storm water drains to protect the stormwater capture system
- **Spill Kits**
Throughout the site there are spill kits containing absorbents (variety of granules/pads/mats/pillows/booms), shovels, brooms, haz bags, Personal Protective Equipment and waste containers
- **SDS's**
The site carries copies of all SDS's for stored and used materials

1.10 Emergency Contacts

	<u>Business</u>	<u>Mobile</u>	<u>Name</u>
General Manager	02 43524 239	0417 374 364	Stephen Poole
HSEC Manager	02 43524 202	0458 735 452	Sue Crane
Technical Services Manager	02 43524 207	0417 256 022	Subash Buddoo
Projects and Maintenance Manager	02 43524 243	0427 103 919	Shawn Stephens
Maintenance Fitter	02 43524 282	0400 425 388	Stephen Cain
Production Manager	02 43524 237	0402 087 554	Phil Ulacco

1.11 Notification of External Parties

The following table outlines the contact details and correct sequence for notification in the event of a notifiable pollution incident.

Emergency Services (if dealing with an emergency)	Police Fire Ambulance	000
EPA	Environment Line	131 555
Ministry of Health	Public Health Unit – Gosford Office. Gosford Hospital	02 4320 2111 (A/H) 024320 9730
SafeWork NSW		13 10 50
Wyong Shire Council	Local Council	02 4350 5555

1.12 Notification of Corporate Incident Response

In accordance with EHS-2 Corporate Incident Management Plan, the General Manager or assigned delegate will:

- Call the FMC Hot Line: 609-963-6667 (**International dial 001 first**). The call should be made as soon as possible after organizing an initial response.
- This phone number is answered 24 hours a day. Say “*I need to report an incident*” or “*I want to speak with the Incident Team Leader*”.
- The Hot Line will contact a Corporate Incident Team Leader. The Team Leader will promptly return your call.
- If your emergency is a crisis, the Team Leader will make all necessary corporate notifications. Local notifications remain the responsibility of the site.

1.13 Notification of Neighbouring Establishments

Neighbouring establishments shall be notified if an actual event has the potential to impact upon them. A list of neighbouring estates including telephone numbers and neighbouring estate plan are shown below:



1	Hibble Industries Pty Ltd	02 4353 1366	Daniel Hibble: 0458596106
2	Central Coast 4x4 Wreckers	02 4352 2443	Brad Thomas: 0439725371
3	Valspar	02 4351 0420	Neil Burns: 0438684053
4	MSD Animal Health	0417 102 917	Mathew Turner 0417102917
5	Amarcon Pty Ltd	02 4352 2468	Carl Bauerhit: 0448522468
6	SMS Municipal Services Pty Ltd	02 9906 4633	Rented LJ Hooker: 43537700
7	RG Engineering	02 4351 1072	
8	Telstra	02 4356 7050	Bill Lloyd: 0407669112
9	Fleetwood Timbers	02 4353 2611	Kevin McLeod: 0404466166
10	Mecha Design and Fabrication	02 5351 1877	Colin Campbell: 0402351399
11	Parchem	02 4350 5000	Margaret Sanders

1.14 Minimising harm to persons on the premises

At all time, minimising harm to persons shall be a priority of the Emergency Commander who must ensure this through appropriate management of personnel prior to emergency services taking control. Search and rescue is a secondary concern where emergency services are attending an emergency.

1.15 Staff Training

The objective of site environmental training is to ensure that all persons whose actions may have potential to cause a significant environmental impact are given the appropriate training to identify, prevent, or be able to appropriately act should any such incident take place.

Training shall be provided through employee induction, contractor or visitor induction or through the environment training plan; incorporating waste segregation and management, safe storage of dangerous goods, and spill or PIRMP response.

The actual form of training will include regular toolbox talks, formal staff training on incident management and emergency response including simulated incident exercises, and where appropriate involving local emergency services. The training will be suitable for the level of risk and likelihood of incidents or possible scenarios at the site.

Such exercises shall be conducted at a frequency no less than once per year, with at least one exercise simulating an activation of the PIRMP