Pollution Incident Response Management Plan

D&N Rubber Refinery Pty Ltd – Tyre Recycling Facility 66 Victoria Street, Smithfield

22 June 2018

D&N RUBBER REFINERY



EXECUTIVE SUMMARY

This Pollution Incident Response Management Plan (PIRMP) has been developed for the Proposed D&N Rubber Refinery Tyre Recycling Facility located at 66 Victoria St, Smithfield.

This document has been set out to fulfil the requirements of Part 5.7A of the *Protection of the Environment Operations Act* 1997 and contains the details required for pollution incident response management plans as set out within Part 3A of the *Protection of the Environment Operations (General) Regulation* 2009.

The content of this plan includes:

- The procedures to be followed by the licence holder in notifying a pollution incident;
- A detailed description of the action to be taken immediately after a pollution incident to reduce or control pollution; and
- 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 the persons through whom all communications are to be made.

It is important to note that this PIRMP is a working document. If operating conditions or waste processing practices on the site change, the PIRMP needs to be updated to reflect the changes in practices. D&N Rubber Refinery Pty Ltd are committed to working with the NSW Environment Protection Authority (EPA), and appropriate changes to the conditions of the Environment Protection Licence will be made before any site changes are implemented.

Below is a summary of the immediate steps to be taken in the event of a pollution incident (Table 1.1).

Table 1.1. Summary of Pollution Incident Response.

In the event of a pollution incident		Responsibility and Action Required	Section of Report
Step 1	Contact Operations Manager		Section 7
Step 2	Is there an immediate threat to human health and the environment?	Call Emergency Services (000) or 112 for mobile phones	Section 8.1
Step 3	Does the site need to be evacuated?	Initiate evacuation procedure Safely follow pollution incident procedures	Section Error! Reference source not found.
Step 4	Inform other relevant authorities of the incident	Follow the pollution incident plan contacting the relevant authorities	Section 8.1
Additional sta	aff responsibilities		
	Onsite Staff	Operations Manager	Director
	Assist with Clean Up	Coordinate onsite plan	Call relevant regulatory authorities as specified in Section 8.1
Step 5	Follow instructions of Operations Manager	Barricade off area and notify staff onsite	Engage appropriate consultants
		Complete incident reporting form	Submit incident report form to EPA
			Review this plan within 30 days of report

It is recommended that all sections of this document are read, and the appropriate training undertaken, prior to responding to an incident.

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1. Purpose of This Plan

Under the *Protection of the Environment Operations Act* 1997, holders of an Environment Protection Licence (EPL) must prepare and implement a Pollution Incident Response Management Plan.

The Protection of the Environment Operations Act 1997 (POEO Act) specifies within Section 147 that there is a duty to report a pollution incident if there is a threat or material harm to the environment. A pollution incident is defined as:

"Pollution incident means an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise."

The objectives of the PIRMP are to:

Ensure comprehensive and timely <u>communication</u> about a pollution incident to staff, EPA, authorities and other stakeholders



<u>Minimise and control the risk</u> of a pollution incident by identifying risks and planning actions to minimise and manage them



Ensure that the plan is properly implemented by nominated trained staff, and regularly tested

A "pollution incident" is defined as:

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 noise.

The PIRMP must be:



2. About the Site

Address • 66 Victoria Street, Smithfield, NSW Lot 11, DP 239868 • Approximately 1,980m² lot size in total, approximately 1,632m² of Site size building floor area • Fairfield City Council • IN1 - General Industrial •The tyre recycling facility has been granted development consent by Fairfield City Council, under development application number 527.1/2017 • As the facility processes more than 5,000 tonnes of tyres per annum, and greater than 5 tonnes of tyres or 500 tyres are stored an any one Controls time, an Environment Protection Licence is required under the *Protection* of the Environment Operations Act 1997. No works or activities are to be undertaken at the site prior to an Environment Protection Licence being approved for the Facility. •Up to 8,000 tonnes per annum of passenger vehicle and truck tyres will be sourced and processed at the facility.

2.1 Location and Site Description

The subject site is located at 66 Victoria Street, Smithfield, in the Fairfield Municipal Council local government area. The site is also identified at Lot 11 DP 239868. The lot size is approximately 1,980m², including approximately 1,632m² of building floor area. The site is zoned IN1 General Industrial as shown in Figure 2.2.

The site has sufficient turning area for all rigid vehicles to enter and leave in the forward direction. The site is located facing Victoria Street, a collector road with a speed limit of 60km/hr, with two traffic lanes and kerbside parking on either side of the carriageway.

The site has a total of five existing car parking spaces within the front setback area. The approved development includes an additional three car parking spaces, increasing parking to a total of eight car parking spaces.

Such access and parking will comply with *Fairfield City Wide Development Control Plan* 2013 Section 9.2 - Car Parking, Vehicle and Access Management and AS 2890 – Parking Facilities.

The subject site is zoned IN1 General Industrial pursuant to Fairfield Local Environmental Plan 2013 as shown in Figure 2.2. The proposed development meets the definition of a "Resource recovery facility" and therefore the development is consistent with Section 120 of the *State Environmental Planning Policy (Infrastructure)* 2007, being development, which is permissible subject to development consent from council.

Figure 2.7 provides an overview of the waste receival and processing.



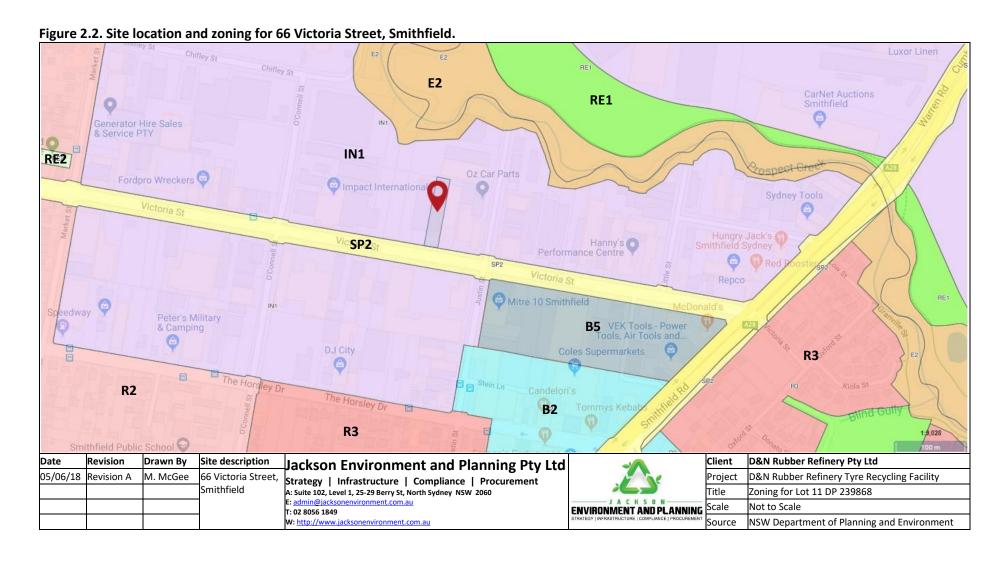
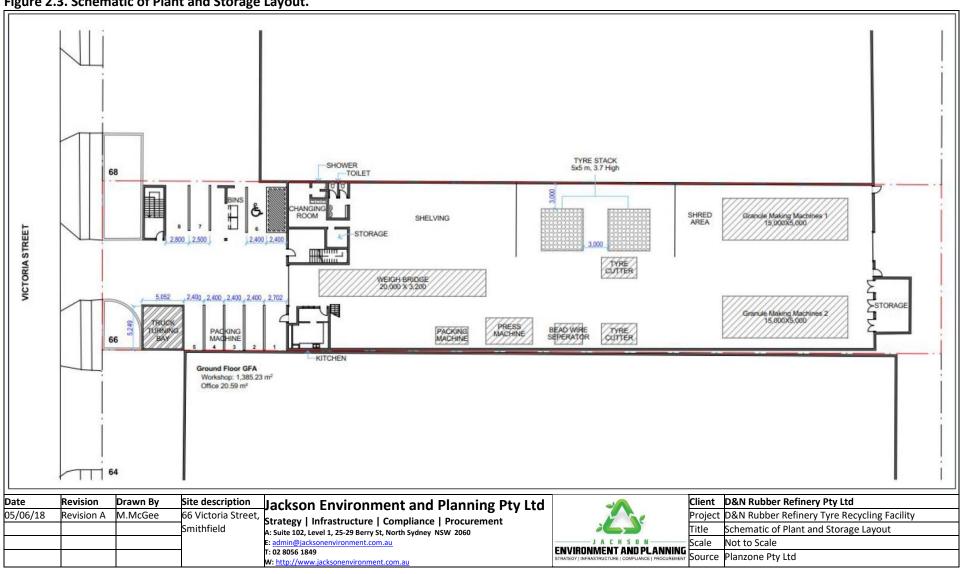


Figure 2.3. Schematic of Plant and Storage Layout.



2.2 Surrounding Premises

The site is located in an industrial zoned area (Figure 2.2), with similar use premises in the nearby area. Under the *Fairfield Local Environmental Plan* 2013, a wide range of land uses are permitted in this area, with consent. The activities of the adjoining businesses are summarised in Table 2.1.

Table 2.1. Adjoining and nearby business details.

Neighbour	Owner	Description of Business
78 Victoria St	Impact International	Automotive
73 Victoria St	Eclipse Environmental	Automotive
68 Victoria St	Wexford Welding	Metal Structural Works
64 Victoria St	Tools Warehouse	Hardware
60 Victoria St	Global Signs	Signage
49-63 Victoria St	United Electrical Supplies	Electrical Wholesale
49-63 Victoria St	Proma Air Conditioners	Air Conditioner Supplier
46 Victoria St	National Trailers and Campers	Automotive
39 Justin St	Hi-Class Mechanical Repairs	Automotive
41 Justin St	Dalmar Body Repairs	Automotive
42 Justin St	Save Body Repairs	Automotive
43 Justin St	ATRA Mechanical Repairs	Automotive
44-46 Justin St	Oz Car Parts	Automotive
45 Justin St	HEQS Group	Appliance Importer
48 Justin St	Bestwood	Commercial Interiors
52 Justin St	Cowdroy	Door Supplier

Nearest Sensitive Receptors

2.2.1 Residential

The site is located in an industrial zoned area (Figure 2.2), with the nearest residential areas being located on The Horsley Drive to the south, on Market Street to the west, and on Smithfield Road / Warren Road to the east. The closest residences are along The Horsley Drive approximately 250m to the South East of the site.

2.2.2 Waterway

The nearest waterway is Prospect Creek, located approximately 80m to the north of the subject site. The creek is typical of an urban waterway and is threatened by a range of activities and associated infrastructure. The dominant land use within the creeks catchment is a mix of light industrial and residential.

Full concrete bunding to 150mm is provided on the site. Should any chemical spill occur outdoors that cannot be contained using a chemical spill kit (e.g. vehicle fuel leak), the Pollution Incident Response Management Plan will be activated, and appropriate notifications and clean-up will occur.

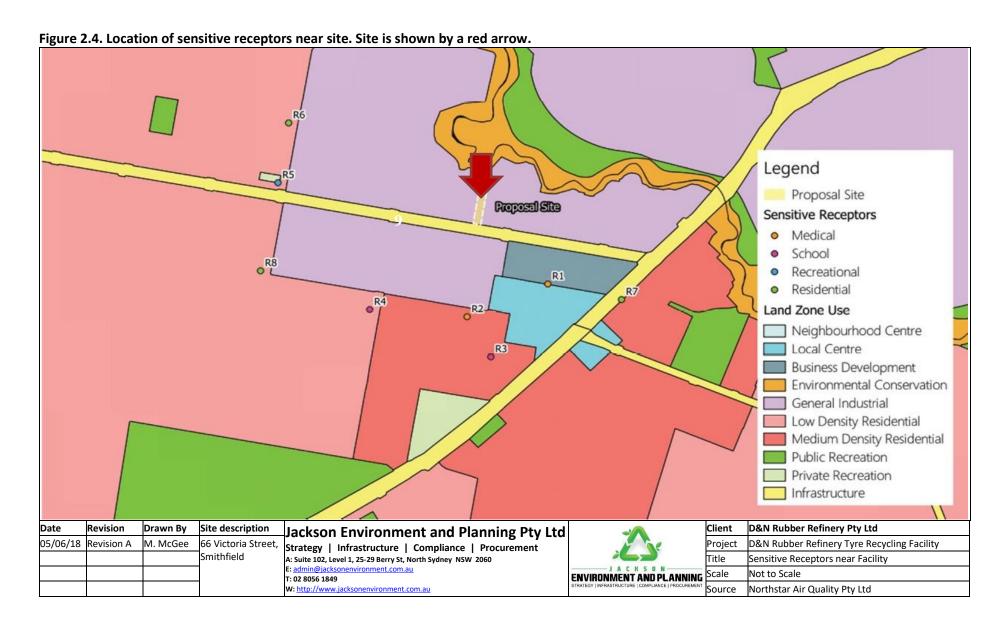
All operations associated with the Tyre Recycling Facility will be conducted indoors, with no tyres or processed rubber crumb materials being stored outdoors, avoiding possible impacts on stormwater. All activities associated with the development will comply with the *Fairfield City Council Stormwater Management Policy* 2017, and the *Fairfield City Development Control Plan* 2013.

The site is subject to local overland flooding, and is identified within the *Prospect Creek Flood Planning Map* (Figure 2.5) within the low flood risk precinct. The finished floor level of the development is above the 100-year flood level and can be adequately utilised to store goods above the 100-year flood level. The proposal will not include the storage of any polluting or potentially hazardous materials within

the 100-year flood levels. The existing building is constructed of predominantly concrete wall panels which will withstand the forces of floodwater, debris and buoyancy. The approved development is for works within an industrial development with similar uses surrounding. As a result, the Facility will not result in an increase the flood effect on the local area. No new building work or alterations to the existing building are proposed for the Facility.

2.2.3 Bushfire Prone Land

The site is not located in bushfire prone land (see Figure 2.6).



Prospect Creek- Flood Planning Map 19 July 2010 High Flood Risk Precinct Land below 100 year flood that is either subject to a high hydraulic hazard or where tehre are significant evacuation difficulties. 0.5 kilometres Medium Flood Risk Precinct Land below the 100 year flood that is not subject to a high hydraulic hazard and where there are no significan evacuation difficulties. Low Flood Risk Precinct Site All other land within the floodplain i.e. within the Probable Maxiumum Location Flood (PMF) extent, but not identified as wiithin the high or medium flood risk precinct. **Important Notes** Mapping does not include local stormwater flooding. Sheet 3 of 3 D&N Rubber Refinery Pty Ltd Date Revision Drawn By Site description Jackson Environment and Planning Pty Ltd 07/06/18 Revision A M.McGee 66 Victoria D&N Rubber Refinery Tyre Recycling Facility Strategy | Infrastructure | Compliance | Procurement Street, Smithfield A: Suite 102, Level 1, 25-29 Berry St, North Sydney NSW 2060 Title Closest Flooding Areas to Site E: admin@jacksonenvironment.com.au cale As Shown **ENVIRONMENT AND PLANNING** T: 02 8056 1849 Fairfield City Council W: http://www.jacksonenvironment.com.au

Figure 2.5. Closest flooding Areas to site. Site boundary is shown as a red box.

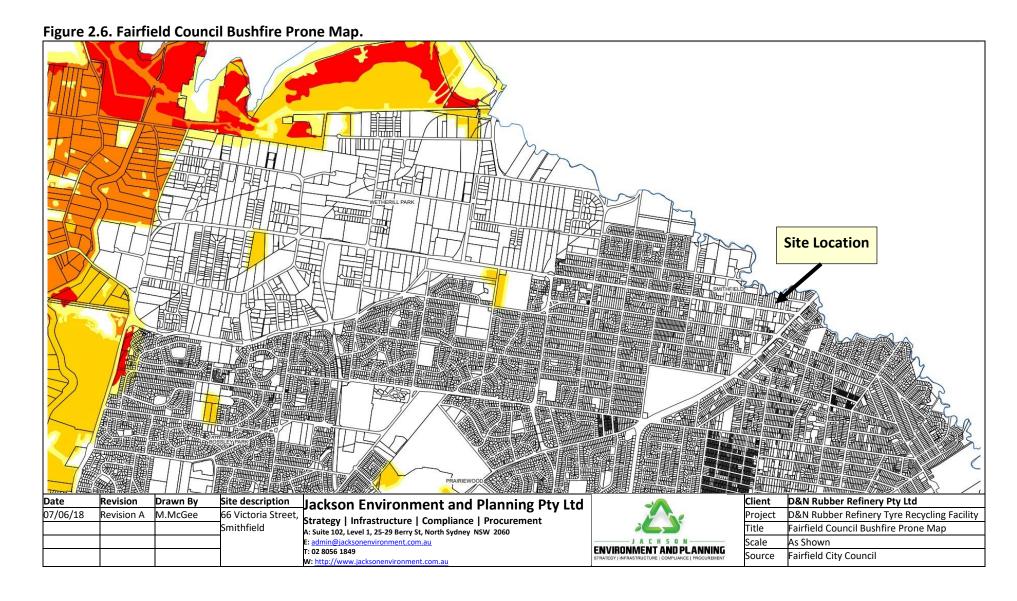


Figure 2.7 Overview of receiving ad processing of tyres.

Processing up to 8000 tpa of tyres

Whole car and truck tyres are delivered via medium rigid vehicle to 66 Victoria Street, Smithfield

Trucks enter the facility in the forward direction and are weighed on the 10m above ground weighbridge

The truck parks in the loading bay and tyres are unloaded and are stored in the Materials Storage Area, stacked according to NSW Fire Brigade Guidelines

Less than 1,000 tyres or <10 tonnes of tyres are stored on site at any one point in time

Tyres are transferred from the storage area with a tyre trolley

Tyres are loaded manually into a debeader which removes the steel reinforcing from the tyre

Tyres are loaded onto a conveyor belt to the tyre processing plant and chipper, which mechanically removes merals, cotton and fibre and transfers these materials to storage bins

The granule processing machine size reduces the rubber into a rubber crumb material for recycling

Dust collector and cooling system captures dust and removes heat released during the shredding process

Finished crumb rubber and cotton is bagged, steel is baled and transported for storage via trolley in the Storage Warehouse

Product is loaded onto trucks for transport to markets via the weighbridge

3. Description and Likelihood of the Main Hazards

Proposed activities include:

- Used tyres collection;
- Recycling process;
- Finished product storage
- Waste management

From these activities, the hazards to human health and the environment have been identified. These include:

- Air Pollution/Odour
- Noise
- Chemical Spill
- Strom water contamination
- Fire
- Vehicle collision
- Litter

Based on these activities, the severity of any pollution incident should be ranked based on the extent to which a pollution hazard poses to humans and the environment (Table 3.1).

Table 3.1 Ranking of Pollution Incident

Description of pollution event	Severity score
Pollution could affect only those in the immediate vicinity	1
Pollution could affect others within the site	2
Pollution could affect surrounding neighbours	3

Table 3.2 identifies a list of foreseeable hazards that could occur on this site because of regular operating procedures. A risk management table is used to score the risk associated with any hazard.

Table 3.2 Ranking of Pollution Incident.

Type of Pollution	Hazard	Likelihood of Hazard occurring	Consequence	Risk Score
Chemical Spill	Fuel / oil	Unlikely	Minor	4
Excessive Dust Emissions	Dust	Possible	Insignificant	4
Fire	Heat, smoke and depletion of oxygen	Rare	Major	2
Noise	Hearing problems	Possible	Minor	3
Stormwater contamination	Carbonised water	Unlikely	Moderate	3
Natural Disaster	Personal injury / escape of stockpiles leading	Unlikely	Moderate	3

Type of Pollution	Hazard	Likelihood of Hazard occurring	Consequence	Risk Score
	to pollution of stormwater, air or soil			
Vehicle collision	Damage to man / material	Possible	Moderate	2
Litter	Health problems	Possible	Minor	3

Table 3.3 Risk Matrix.

Consequence					
	Catastrophic	Major	Moderate	Minor	Insignificant
Likelihood	Death Permanent disabling injury or extensive permanent environmental damage	Extensive permanent injury or extensive temporary or minor permanent environmental damage	Significant non- permanent injury. Overnight hospitalisation. Temporary environmental damage consultants required for assessment and clean-up	Medical help needed. Treatment by medical professional. Environmental clean-up done in house	Dealt with in house
Almost certain to occur in most circumstances	1	1	1	2	2
Likely to occur frequently	1	1	2	2	3
Possible and likely to occur at some time	1	1	2	3	4
Unlikely to occur but could happen	1	2	3	4	5
May occur but only in rare and exceptional circumstances	2	2	3	5	6

Note: Risk scores are developed prior to any control measures in place.

4. Pre-Emptive Actions to be taken

The main hazards, and the mitigation measures in place for each one, are shown below.

Spill or leak of chemicals or hydrocarbons

- No storage of fuel will occur onsite.
- •All chemicals will be appropriately stored and labelled
- •Spill kits will be ready accessible and maintained
- •Material Safety Data Sheets for all chemicals will be available on site

Excessive dust emissions

- •External area of the site (hard stand and roadways) are sealed
- •Tyre processing and storage always to be carried out indoors
- •The warehouse floors will be swept regularly to avoid dust tracking via vehicle movements.
- •Dust to be controlled by a fully integrated dust collection system

Eiro

- •Stockpiles will remain under the prescribed limit
- Fire extinguisher, fire hose, hydrant system is available at different locations of machinery area, office and storage area
- •Staff will be trained in the use of fire extinguishers

Voise

- •All processing to take place indoors
- •Suitable PPEs (ear muffs) to be used by all staff working in machinery area

Stormwater Contaminatior

- Concrete bunding to be maintained at all times
- All tyres and tyre products to be stored and processed indoors at all times
- •Remove loose material from site enterance and exit
- •Activation of stormwater isolation valve

Natural disaster

- Appropriate insurance policies will be purchased
- •Staff will be trained in the emergency procedures

Vehicle collision

- Vehicle movement is controlled by road marking, sign posting and security staff
- Speed limit for all vehicles in plant is 5km/hour

Litter

- •Seperate bins are available for garbage and non-conforming waste
- •Small bins are placed in office areas
- •Toilet and washing facilities available for staff and visitors

5. Inventory of Pollutants

Table 5.1. Inventory of Pollutants.

The main potential pollutants associated with this site are generated as a result of current activities. These include:

- Dust from processing operations and vehicle movements;
- Domestic quantities of cleaning products; and
- Oil and grease for lubricating machinery.

Item Name	Quantity	Storage Area
LPG gas bottles	<500 kg	Store room
Floor cleaners (disinfectant)	<20L	Store room
Toilet cleaner	<20L	Store room
Other cleaners (glass, table etc.)	<20L	Store room
Grease	<10kg	Store room
Engine oil	<700L	Store room

For all chemicals stored on site, a material safety data sheet is stored in the site office and can be accessed by all staff.

The storage and handling of the above pollutants are in accordance with:

- AS 1596:2014 The storage and handling of LP Gas
- AS 1940:2004 The storage and handling of flammable and combustible liquid
- AS 2030.1:2009 Gas cylinders General requirements
- Storage and Handling of Dangerous Goods Code of Practice 2005.

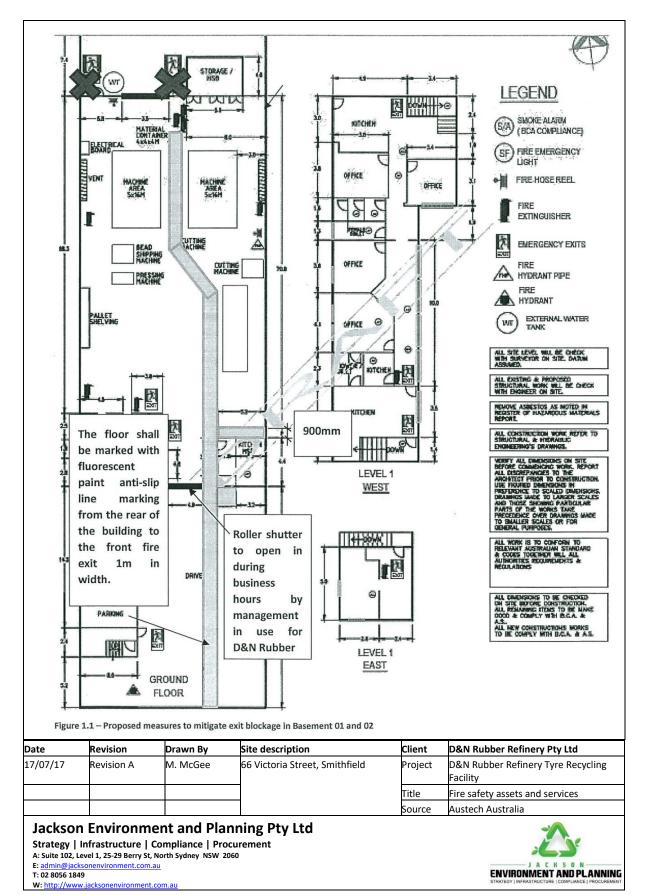
6. Safety and Clean-Up Equipment

Table 6.1. Type and Location of Safety and Clean-up Equipment.

Equipment	Location	
Spill kits	1 in Machinery area, 1 in store	
Safety Data Sheets (SDS)	Office	
First Aid Kit	Office	
Fire extinguishers	5 at ground floor 1 at level 1 east 1 at level 1 west (locations given in Figure 6.1)	
Fire hoses	Office	
Fire Hydrant	Front of site, near Victoria St	
Personal Protective Equipment	Worn by staff, spares in office	
Traffic bollards and traffic cones	Loading bay / Office	

Location of fire safety assets and services shown in Figure 6.1.

Figure 6.1. Fire safety assets and services diagram for 66 Victoria Street, Smithfield.



7. Contact Details and Responsible Persons

The person responsible for implementing this plan is (to be confirmed).

In the case of a pollution incident, the following people should be notified immediately:

Primary site contact

• General Manager or Director

Secondary site contact

• Operations Manager

8. Actions to Be Taken During or Immediately After a Pollution Incident



8.1 Notify Agencies



8.2 Minimise Harm to People on the Premises

All employees operating equipment must safety shut down the equipment if it is safe to do so

Site manager to decide whether to evacuate all people on site to muster point (near front entrance of site)

First Aid trained staff to administer first aid if required

Site manager will discuss with emergency services personnel and decide when it is safe to return to the site

8.3 Reduce and Control Pollution

• Deploy spill kits • Protect drains with sandbags / drain covers • Follow instructions from emergency services/authorities if required • Dispose of contaminated material through a licenced contractor and • Erect appropriate barriers and signage during cleanup phase Cease operations •Don PPE (dust masks, safety glasses) • Apply dust suppression measures eg water cart, sprinklers • Protect drains with drain covers • Deploy fire extinguishers if safe to do so Activate stormwater isolation valve • Follow instructions from emergency services/authorities if required •Wear appropraite PPEs and recover waste if safe to do so • Engage a qualified contractor to recover and dispose off waste if required • Erect appropriate barriers and signage during cleanup phase • Follow instructions from emergency services/authorities • Erect appropriate barriers and signage during cleanup phase • Contact insurance company Natural disaster

8.4 Communicate with Neighbours and the Community

Is there potential for off-site impacts to the community or environment? If yes, then contact the following business via telephone or where appropriate via door knocking.

Table 8.1. Contact Details for Adjacent Businesses.

Adress	Owner	Contact
46 Victoria St	National Trailers and Campers	(02) 8798 4123
49-63 Victoria St	United Electrical Supplies	(02) 9729 3377
49-63 Victoria St	Proma Air Conditioners	(02) 9748 4700
60 Victoria St	Global Signs	(02) 9729 0139
64 Victoria St	Tools Warehouse	(02) 8711 1980
68 Victoria St	Wexford Welding	(02) 9604 5526
69 Victoria St	Mototech	(02) 9725 5600
73 Victoria St	Eclipse Environmental	(02) 9757 1212
78 Victoria St	Impact International	(02) 9604 5133
39 Justin St	Hi-Class Mechanical Repairs	(02) 9609 2374
41 Justin St	Dalmar Body Repairs	(02) 9725 1762
42 Justin St	Save Body Repairs	(02) 8712 8975
43 Justin St	ATRA Mechanical Repairs	(02) 9725 1525
44-46 Justin St	Oz Car Parts	(02) 9609 3333
45 Justin St	HEQS Group	(02) 8740 5642
48 Justin St	Bestwood	0412 377 220
52 Justin St	Cowdroy	1300 269 376

9. Staff Training and Testing This Plan

9.1 Staff Training

All new employees will be made aware of the requirements of the plan as part of their induction process.



All employees will be trained in the use of spill kits and fire extinguishers.



All employees are required to complete refresher training on a regular basis.



In addition to the above induction and training, details of this plan will be provided to key contacts on site and off site on request.

9.2 Testing this Plan

This plan will be reviewed once a year to ensure that the information contained within the plan is accurate and current. If necessary, the plan will be updated as a new version.



Evaculation drills will be carried out at least once a year.



Improvements identified in the review and drills will implemented.



Records will be kept of the reviews and drills, their outcomes and any improvements identified and implemented.

