



Environment Protection Authority

Ecolab Revesby PIRMP Plan



Pollution incident response management plan

Licence number: 512

Approved by: Reynaldo Lucas

Position/Title: SHEQ Manager

Signature:

Date: 16/02/2024

Purpose:

Ecolab Supply Chain Revesby holds an Environment Protection Licence with the NSW Environment Protection Authority (EPA) for **512**. As per the *Protection of the Environment Operations Act 1997* (the POEO Act), the holder of an Environment Protection Licence must prepare, keep, test and implement a pollution incident response management plan (PIRMP) that complies with Part 5.7A of the POEO Act in relation to the activity to which the licence relates.

If a pollution incident occurs in the course of an activity so that material harm to the environment (within the meaning of section 147 of the POEO Act) is caused or threatened, the person carrying out the activity must **immediately** implement this plan in relation to the activity required by Part 5.7A of the POEO Act.

A copy of this plan must be kept at the licensed premises, or where the activity takes place in the case of mobile plant licences, and be made available on request by an authorised EPA officer and to any person who is responsible for implementing this plan.

Parts of the plan must also be available either on a publicly accessible website, or if there is no such website, by providing a copy of the plan to any person who makes a written request. The sections of the plan that are required to be publicly available are set out in section 74 of the Protection of the Environment Operations (General) Regulation 2022.

Note: This plan must be developed in accordance with the *Protection of the Environment Operations Act 1997* and the Protection of the Environment Operations (General) Regulation 2022.

Licencees should also refer to the EPA's Guideline: Pollution incident response management plans.

Environment Protection Licence (EPL) details

Name of licensee:
(including ABN) Ecolab Pty Ltd

EPL number: 512

Premises name and address: 32 Marigold Street, Revesby NSW

Company or business contact details
Name: Craig Ryan
Position or title: Plant Manager
Business hours contact number/s: 0407550954
After hours contact number/s: 0407550954
Email: craig.ryan@ecolab.com

Website address: [Water, Hygiene and Infection Prevention Solutions and Services | Ecolab](#)

Scheduled activity/activities on EPL:
Chemical Production
Chemical Reconditioning
Container Reconditioning

Fee-based activity/activities on EPL:
Chemical production waste generation any time > 5-100 T amount of waste on site at any time
Container reconditioning Any capacity to recondition, recover, treat or store
Dangerous goods production 0-10000 T annual production capacity
General chemicals storage 0-5000 kL storage capacity

Pollution incident – person/s responsible

Contact details must include the names, position titles and 24-hour contact details. Details are to include alternative person/s, should the primary contact be unavailable.

PIRMP activation
Name of person responsible: Reynaldo Lucas; Craig Ryan
Position or title: SHEQ Manager; Plant Manager
Business hours contact number/s: 02 8723 5507, 0407550954
After hours contact number/s: 0412 490 163; 0407550954

Email: Reynaldo.lucas@ecolab.com

Pollution incident – person/s responsible, continued

Notifying relevant authorities

Notification should be made by a person with an appropriate level of authority within the company.

Name of person responsible: Reynaldo Lucas
Position or title: SHEQ Manager
Business hours contact number/s: 0412490163
After hours contact number/s: 0407217128
Email: Reynaldo.lucas@ecolab.com

Managing response to pollution incident

Name of person responsible: Reynaldo Lucas
Position or title: SHEQ Manager
Business hours contact number/s: 0412490163
After hours contact number/s: 1800 022 002 (Ecolab Emergency Number)
Email: Reynaldo.lucas@ecolab.com

Notification of relevant authorities

Identify any persons or authorities required to be notified as per Part 5.7A of the POEO Act in the case of a pollution incident that causes or threatens to cause material harm to the environment.

Relevant authorities include:

1. Fire and Rescue NSW and/or Rural Fire Service as applicable – 000 (first notification)
2. EPA – 131 555
3. NSW Health (nearest public health unit). See www.health.nsw.gov.au/Infectious/Pages/phus.aspx for local contact details.
4. SafeWork NSW – 131 050
5. Local authority (usually the local council) in which the pollution has occurred.

Note: The local council and public health unit will vary depending on the location of the pollution incident. For mobile plant licences the PIRMP will need to include the person or people who are responsible for identifying the local authority and nearest public health unit.

Fire and Rescue NSW / Rural Fire Service	Contact number/s:	000
EPA	Contact number/s:	131555
NSW Health	Relevant Area Health Service:	02) 9391 9000
	Contact number/s:	
SafeWork NSW	Contact number/s:	13 10 50

Notification of relevant authorities, continued

Local authority/s

Identify the local authority for the area in which the premises to which the environment protection licence relates, and any area that is affected, or potentially affected, by the pollution.

Contact number/s:

EPA	131 555
Work Safe	13 10 50
Ecolab Emergency	1800 022002
Sydney Water	13 20 90
Police/fire/Ambulance	000

Any other identified organisation or agency requiring notification (if applicable) e.g. Water NSW, Department of Planning and Environment, Roads and Maritime Services.

Contact number/s:

Sydney Water	13 20 90
Cleanaway- Clean-up	1800774557
Council (Bankstown)	02 9707 9000

Notification of neighbours and the local community

Identify owners or occupiers of premises in the vicinity of the licensed premises, including any sensitive premises (e.g. schools, preschools, hospitals, nursing homes):

North The Steel Store (9772 3696), and Alpha Rugs (9774 1220)

South B & D Doors (9722 5555)

West Rear of site - Success Logistics Sydney (9771 5566) – New Business; Chlorman – Pool chemical supplier

Details of how the neighbours will be informed of the incident, including early warnings and regular updates (e.g. door knock, phone call, emergency alert):

Via Phone Call or Personal Visit

Description and likelihood of hazards

Provide a description of the hazards to human health or the environment associated with the activity to which the licence relates:

1. Gas release/Fumes if incompatible chemicals are accidentally mixed
2. Water contamination if it leaked into the canal (Georges River)
3. Explosion – Flammable materials stored if

Identify the likelihood of any such hazards occurring, including details of any conditions or events that could, or would, increase that likelihood:

1. Operator not paying attention during mix process (pumping the wrong material or transferring to the wrong tank)
2. Not properly labelling products
3. Leaking issues not attended to on time
4. Packaging returns not labelled properly
5. Forklift operators not concentrating on forklift driving that can result to piercing an IBC, resulting to spill

Pre-emptive actions to be taken

Provide detailed descriptions of the pre-emptive actions to be taken to minimise or prevent any risk of harm to human health or the environment arising from the activities undertaken at the premises:

1. Storage locations are defined as per DG Class
2. Mixing vessels are dedicated for Acid and Alkaline
3. Effluent Plant to treat Plant Waste
4. Bunded areas for bulk storage
5. Storm water valves and map of the storm water pipes
6. Staff training on Emergency Response and Environmental Spills including Basic Dangerous Goods training

Inventory of pollutants

Provide an inventory of potential pollutants on the premises or used in carrying out the activity to which the licence relates:

Identify the maximum quantity of any pollutant/s likely to be stored or held at particular locations (including underground tanks) at or on the premises to which the licence relates.

Example

Location/tank	Max. quantity	Contents	Comments
e.g. Tank 1 – Workshop	1,000kg	Hydrochloric acid	
e.g. Stockpile 2	100,000m ³	Construction and demolition timber <50mm	

Manifest Inventory Attached

Safety equipment

Describe the safety equipment or other devices used to minimise the risks to human health or the environment and to contain or control a pollution incident:

1. Scrubber Equipment installed on mixers to absorb dust and fumes
 2. Operators are equipped with full hood respirators with particulate and fume filter capability
 3. All mixer equipment are controlled via a PLC system which controls the addition, heating, cooling of products
 4. Emergency buttons installed to shutdown equipment during emergency
 5. Fire hydrants, Extinguishers, and sprinkler system installed on site
 6. Separate Storage for Flammable and Oxidisers to avoid any incompatibility mix
 7. Uses a License waste contractor for collecting and treating the site chemical waste
-

Communicating with neighbours and the local community

Identify details of the mechanisms for providing early warnings and regular updates to owners and occupiers of premises in the vicinity of the premises to which the licence relates or where the scheduled activity is carried out:

1. Contact details of neighbours via phone call or personal visit

Develop any specific information that could be provided to the community, so it can minimise the risk of harm:

1. Public data for Ecolab shared (i.e. NPI report published publicly)
2. HAZCHEM label on the gate

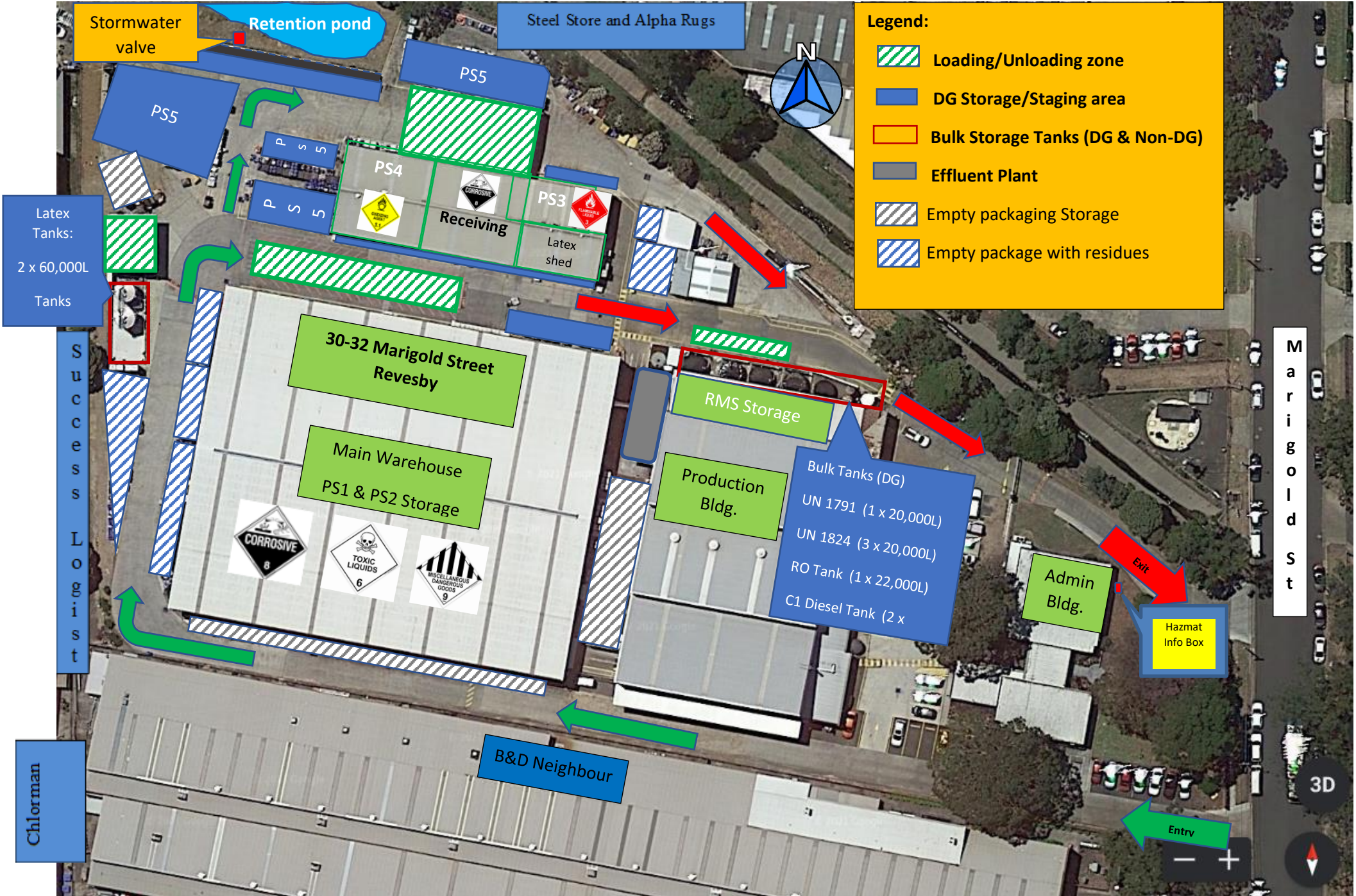
Minimising harm to persons on the premises

Identify the arrangements for minimising the risk of harm to any persons who are on the premises or who are present where the scheduled activity is being carried out:

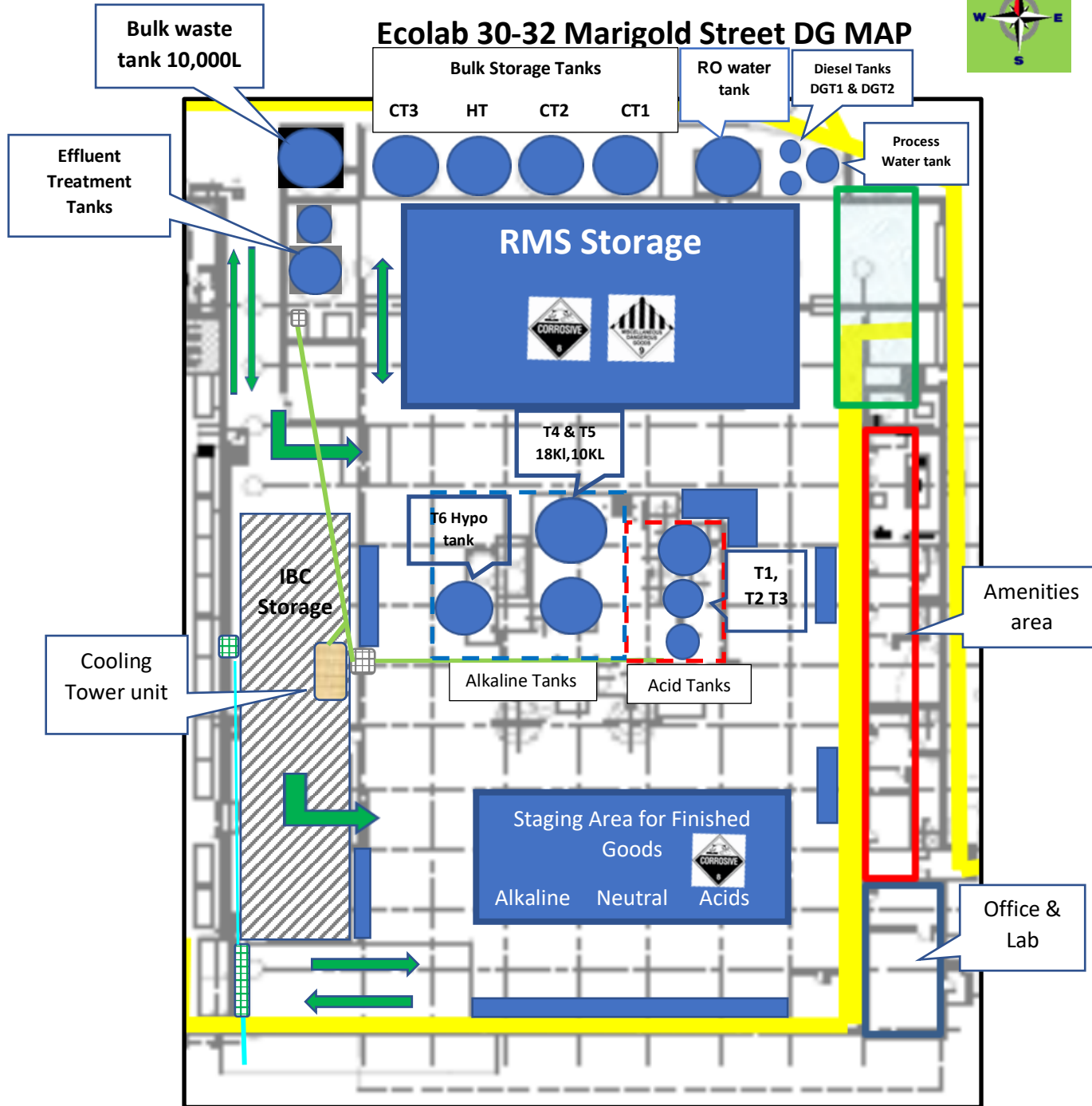
1. All staff are provided with full respirator if they are handling powders and fumes
2. All staff are trained in handling chemicals
3. All staff trained in spill management
4. Storage locations separating incompatibilities
5. Labels to distinguish acids and alkaline
6. Spill kits allocated strategically on site
7. Emergency eyewash and showers installed on site
8. Management of portable bunds

Maps

Ecolab 30-32 Marigold Street DG MAP



Ecolab 30-32 Marigold Street DG MAP



LEGEND:

- Vessel/Storage Tanks
- RMS/Chemical Storage
- Effluent Tank
- Waste tank
- Effluent sump
- Effluent drain line
- Storm water sump
- Storm water line
- Cooling Tower
- IBC Storage

Provide a detailed map (or set of maps) showing the:

- location of the premises to which the licence relates
- surrounding area likely to be affected by a pollution incident
- location of potential pollutants on the premises
- location of any stormwater drains on the premises.

It is recommended the position of any discharge points or any other useful information be included on the map/s, and that any important details on the map are labelled (e.g. the nearest water course or water body that stormwater drains located on the premises discharge to).

See separate Documentation Provided

Actions to be taken during or immediately after a pollution incident

Develop a detailed description of the actions to be taken immediately after a pollution incident to reduce or control any pollution. These should include as a minimum, early warnings, updates and actions to be taken during and after an incident:

1. Isolate the area where the pollution incident happened (barricades)
2. Ascertain what chemical is involved and print SDS to allow safe handling of the chemical
3. Chemical response team to be involved must wear the necessary PPE before dealing with the spills
4. Use appropriate spill materials (i.e. booms, socks, vermiculite or just water for oxidisers)
5. If chemical spill is larger than what the team can handle (> IBC) then an emergency evacuation will be administered
6. Contact Hazmat (Emergency Services and Clean-away for clean-up activities)
7. Provide first aid if required during the emergency
8. Ensure all staff are safe during the emergency
9. Report incident internally and externally as per reporting protocol
10. Debriefing after the incident to document lessons learned
11. Any contained chemical spill must be pumped into an IBC and disposed-off using a license waste provider

Develop a detailed description of how any identified risk of harm to human health will be reduced, including (as a minimum) by means of early warnings, updates and the action to be taken during or immediately after a pollution incident to reduce that risk:

1. Daily site inspection
2. Proper labelling of chemicals in storage
3. Incompatible separation
4. Provide proper PPE when handling chemicals
5. Training on chemical handling

Identify any actions to be taken in combating the pollution caused by the incident and how any clean-up and associated funding resulting from an incident will be undertaken:

1. Basic training on Emergency response and Spill Management
2. Develop and further train the chemical response team

Coordinating with persons

Identify the procedures to be followed for coordinating with the authorities or persons who have been notified:

1. Internal reporting to be provided to Plant Manager and local SHE and other Managers to be informed depending on the nature and severity of the incident.
2. Call the local authority required (i.e. EPA, Safe work, Emergency Services)

Identify the person/s through whom all communications are to be made:

Internal site only: Plant Manager and Local SHE Manager or Area Managers

Internal (Corporate): Site Manager, Supply Chain Director, National SHE, National Logistics (if it meets the threshold of Process Safety and Distribution Safety)

External: 1. Significant Environmental incident reportable to EPA

2. Significant personal incident or Potential incident to Safe work

3. Any discharge breach to Sydney water if it exceeds the discharge limits as per license

Staff training

Identify the nature and objectives of any staff training program in relation to this plan:

1. Provide basic training on emergency response and spill training to ensure staff can deal with emergency situations
2. Provide Advance Training so staff will have more enhanced skills to manage emergency situations

Testing and updating of the PIRMP

It is a legal requirement to test the plan every 12 months and within one month of any pollution incident that caused or threatened material harm to the environment.

Detail the manner in which the plan is to be tested and maintained to ensure the information included in the plan is accurate and up-to-date and the plan is capable of being implemented in a workable and effective manner:

Detail how the testing is documented and recorded (this must include the testing dates and names of all staff members who carried out the testing):

As per attached Document Sent

Detail the dates on which the plan was updated:

As per below data

Example: PIRMP testing details

Date tested	Tested by (to include the names of all people involved in testing)	Details of test (e.g. nature of the test, involvement of other agencies) Note: Testing must cover all components of the plan.	Finding of test, including issues identified	Next scheduled testing date (must be within 12 months from current test)
24/01/2024	Craig Ryan – Plant Mgr Stuart – Engineering mgr Rey Lucas – SHEQ Manager License Plumber for Ecolab	Checking of the Drain maps using water and dye to determine where The water goes	See attached separate Report and Drain Map updated as per Exercise. Also identified opportunities to install additional drain valves and blind pits as required	Jan 24, 2025

PIRMP update details

Date update occurred	Reason for update (e.g. address issues identified in testing, contact details/personnel have changed)	Details of updates (nature of changes to PIRMP)	Date the updated version uploaded to website (if applicable)	Date of completion
24/01/2024	Map Update showing the latest Storm Water map	Contact details, map and pollutant inventory updated	24/01/24	01/02/2024 (implemented new map)

NSW Environment Protection Authority

Email: info@epa.nsw.gov.au

Website: www.epa.nsw.gov.au

EPA 2022P3986

September 2022

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Manifest of Schedule 11 Hazardous Chemicals

Person conducting the Business or Undertaking (PCBU)	Ecolab Pty Ltd
Address of Premises	30-32 Marigold Street Revesby, NSW 2212
Hours of Operation	6 am to 4 pm Monday to Friday
Date of Preparation	1/07/2024
Safework NSW Notification Reference	NDG014257
GPS Coordinates	Latitude: -33.937814; Longitude: 151.000013

Emergency Contact		
Name	Position	Telephone
Craig Ryan (Plant Manager)	Plant Manager	
Reynaldo Lucas	SHEQ Manager	61412490163

Hazardous Chemicals Stored in Tanks

Storage Area	Poper Shipping Name	UN Number	Class/Division	PG	Type	Design Capacity	Diameter	Average Quantity	Largest Quantity
DG CT1	Sodium Hydroxide Solution	1824	8	II	AGT	33,000 kg ¹		30000	32000
DG CT2	Sodium Hydroxide Solution	1824	8	II	AGT	33,000 kg ¹		30000	32000
DG CT3	Sodium Hydroxide Solution	New Installed tank still for comissioning							
DG HT	Hypochlorite Solution	1791	8	III	AGT	20,000 L		16000 L	18000 L
DG DT1	Combustible Liquid	00C1	C1	II	AGT	4500 L		2000 L	2500 L
DG DT2	Combustible Liquid	00C1	C1	II	AGT	5000 L		2500 L	2500 L

¹ - Tank Safe Fill Level

Manufacturing Area

Storage Area	Poper Shipping Name	UN Number	Class/Division	PG	Type	Design Capacity	Diameter	Average Quantity	Largest Quantity kg
RMS	Potassium Hydroxide Solution	1814	8	II	Roofed Store	174000 kg	NA	3000	5416
RMS	CORROSIVE LIQUIDS, N.O.S.	1760	8	II	Roofed Store	174000 kg	NA	1713	2000
RMS		1813	8	II	Roofed Store	174000 kg	NA	510	600
RMS	SODIUM HYDROXIDE, SOLID	1823	8	II	Roofed Store	174000 kg	NA	1156	4736
RMS	Acetic Acid Solution, not less than 50% but not more than 80% acid, by mass	2790	8	II	Roofed Store	174000 kg	NA	450	870
RMS	Acetic Acid Solution, more than 10% and less than 50% acid, by mass	2031	8	II	Roofed Store	174000 kg	NA	10000	11000
RMS	Nitric Acid, other than red fuming, with less than 65% Nitric Acid	3259	8	II	Roofed Store	174000 kg	NA	684	1000
RMS	Corrosive Liquid, Basic, Organic, N.O.S.	3267	8	II	Roofed Store	174000 kg	NA	1600	11500
RMS	Environmentally hazardous substance, liquid, n.o.s.	3082	9	III	Roofed Store	174000 kg	NA	4500	14140

Hazardous Chemical Stored in bulk for Transfer to Tanker

Storage Area	Poper Shipping Name	UN Number	Class/Division	PG	Type	Design Capacity	Diameter	Average Quantity	Largest Quantity
T2202	Sodium Hydroxide Solution	1824	8	II	AGT	16000 L		15000 L	16000 L
TM2	Sodium Hydroxide Solution	1824	8	II	AGT	15000 L		14000 L	14000 L

Packed Store 1 (Alkaline and Neutral)

Storage Area	Poper Shipping Name	UN Number	Class/Division	PG	Type	Design Capacity	Diameter	Average Quantity	Largest Quantity kg
PS 1	CAUSTIC ALKALI LIQUID, N.O.S.	1719	8	II	Roofed Store	3700000 kg	NA	4500	10100
PS 1	HYPOCHLORITE SOLUTION	1791	8	III	Roofed Store	3700000 kg	NA	63113	76421
PS 1	POTASSIUM HYDROXIDE SOLUTION	1814	8	II	Roofed Store	3700000 kg	NA	1500	11263
PS 1	SODIUM HYDROXIDE, SOLID	1823	8	II	Roofed Store	3700000 kg	NA	1200	11563
PS 1	SODIUM HYDROXIDE SOLUTION	1824	8	II	Roofed Store	3700000 kg	NA	136657	203000
PS 1	SODIUM HYDROXIDE SOLUTION	1824	8	III	Roofed Store	3700000 kg	NA	4500	8500
PS 1	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.	3262	8	II	Roofed Store	3700000 kg	NA	5400	55160
PS 1	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	3266	8	II	Roofed Store	3700000 kg	NA	13500	28823
PS 1	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	3266	8	III	Roofed Store	3700000 kg	NA	21000	42000

Packed Store 2 (Acids)

Storage Area	Poper Shipping Name	UN Number	Class/Division	PG	Type	Design Capacity	Diameter	Average Quantity	Largest Quantity kg
PS 2	CORROSIVE LIQUIDS, N.O.S.	1760	8	II	Roofed Store	300000L	NA	3500	14300
PS 2	Hydrochloric Acid	1789	8	II	Roofed Store	300000 L	NA	8477	10500
PS 2	PHOSPHORIC ACID, SOLUTION	1805	8	III	Roofed Store	300000 L	NA	7500	15771
PS 2	SULPHURIC ACID with more than 51% Acid	1830	8	II	Roofed Store	300000 L	NA	13500	27764
PS 2	Nitric Acid, other than red fuming, with less than 65% Nitric Acid	2031	8	II	Roofed Store	300000 L	NA	4715	14146
PS 2	AMINES, LIQUID, CORROSIVE, N.O.S. OLEYLDIAMINOPROPANE	2735	8	II	Roofed Store	300000 L	NA	2775	8300
PS 2	Acetic Acid Solution, not less than 50% but not more than 80% acid, by mass	2790	8	II	Roofed Store	300000 L	NA	450	1000
PS 2	Acetic Acid Solution, more than 10% and less than 50% acid, by mass	2790	8	II	Roofed Store	300000 L	NA	800	1774
PS 2	SULPHURIC ACID with more than 51% Acid	2796	8	II	Roofed Store	300000 L	NA	1789	2059
PS 2	Corrosive Liquid, Flammable, N.O.S.	2920	8	II	Roofed Store	300000 L	NA	1914	3828
PS 2	Corrosive, Liquid, Toxic, N.O.S.	3264	8	II	Roofed Store	300000 L	NA	6831	10447
PS 2	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	3264	8	III	Roofed Store	300000 L	NA	15500	30774
PS 2	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	3265	8	II	Roofed Store	300000 L	NA	11750	20039
PS 2	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	3265	8	III	Roofed Store	300000 L	NA	15747	32104

Packed Store 3 (Flammable)

Storage Area	Poper Shipping Name	UN Number	Class/Division	PG	Type	Design Capacity	Diameter	Average Quantity	Largest Quantity kg
PS 3	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	1170	3	II	Roofed Store	20000 kg	NA	1250	2825
PS 3	Amines, Liquid, corrosive, Flammable, N.O.S. or Polyamines, Liquid, Corrosive, Flammable, N.O.S.	2734	8/3	II	Roofed Store	20000 kg	NA	4500	7165

Packed Store 4 (Oxidisers)

Storage Area	Poper Shipping Name	UN Number	Class/Division	PG	Type	Design Capacity	Diameter	Average Quantity	Largest Quantity kg
PS 4	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% Hydrogen Peroxide (stabilised as necessary)	2014	5	II	Roofed Store	60000 kg	NA	31000	35046
PS 4	OXIDISING LIQUID, CORROSIVE, N.O.S.	3098	5	II	Roofed Store	60000 kg	NA	16000	17290
PS 4	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, stabilised	3149	5	II	Roofed Store	60000 kg	NA	500	1300
PS 4	Sodium Chlorate, aqueous solution	2428	6	II	Roofed Store	60000 kg	NA	1380	3000

Packed Store 5 (Open storage - IBC)

Storage Area	Poper Shipping Name	UN Number	Class/Division	PG	Type	Design Capacity	Diameter	Average Quantity	Largest Quantity kg
PS 5	CAUSTIC ALKALI LIQUID, N.O.S.	1719	8	II	IBC	1012000 KG	NA	2000	2000
PS 5	Sodium Hydroxide Solution	1824	8	II	IBC	1012000 KG	NA	65000	119495
PS 5	SULPHURIC ACID solution	1830	8	II	IBC	1012000 KG	NA	15000	30190
PS 5	Nitric Acid, other than red fuming, with less than 65% Nitric Acid	2031	8	II	IBC	1012000 KG	NA	9945	11475
PS 5	Sulphuric Acid > 51% Acid	2796	8	II	IBC	1012000 KG	NA	4800	5500
PS 5	Corrosive, Liquid, Toxic, N.O.S.	2922	8	II	IBC	1012000 KG	NA	3300	6300
PS 5	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	3264	8	II	IBC	1012000 KG	NA	31682	50700
PS 5	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	3266	8	II	IBC	1012000 KG	NA	5500	6426
PS 5	PHOSPHORIC ACID, SOLUTION	1805	8	III	IBC	1012000 KG	NA	6000	12800
PS 5	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	3264	8	III	IBC	1012000 KG	NA	15841	21000
PS 5	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	3265	8	III	IBC	1012000 KG	NA	17360	32000

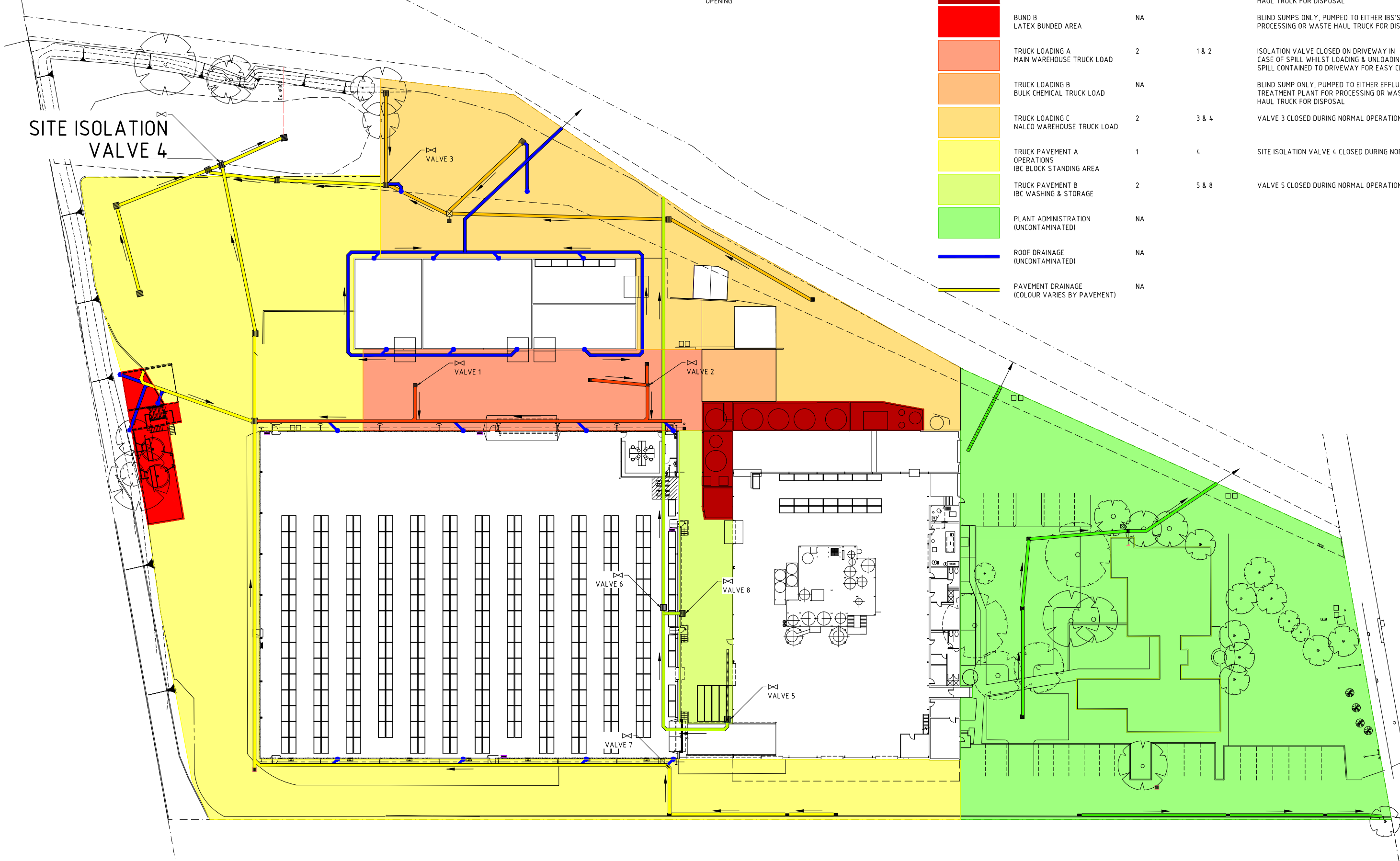
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PHILOSOPHY

1. ALL VALVES ARE CLOSED DURING NORMAL OPERATIONS.
2. VALVES ARE OPEN AFTER HOURS WHEN DAILY ACTIVITIES CEASE, TO AVOID FLOODING.
3. THE SITE ISOLATION VALVE 4, AT THE BACK OF THE SITE IS ALWAYS TESTED & RESULTS LOGGED BEFORE OPENING

LEGEND

SHADE	AREA/PIPEWORK	No. OF VALVES	VALVE/S NAME	DESCRIPTION
[Dark Red]	BUND A BULK TANK FARM	NA		BLIND SUMPS ONLY, PUMPED TO EITHER EFFLUENT TREATMENT PLANT FOR PROCESSING OR WASTE HAUL TRUCK FOR DISPOSAL
[Red]	BUND B LATEX BUNDED AREA	NA		BLIND SUMPS ONLY, PUMPED TO EITHER IBS'S FOR PROCESSING OR WASTE HAUL TRUCK FOR DISPOSAL
[Light Red]	TRUCK LOADING A MAIN WAREHOUSE TRUCK LOAD	2	1 & 2	ISOLATION VALVE CLOSED ON DRIVEWAY IN CASE OF SPILL WHILST LOADING & UNLOADING SPILL CONTAINED TO DRIVEWAY FOR EASY CLEANUP
[Orange]	TRUCK LOADING B BULK CHEMICAL TRUCK LOAD	NA		BLIND SUMP ONLY, PUMPED TO EITHER EFFLUENT TREATMENT PLANT FOR PROCESSING OR WASTE HAUL TRUCK FOR DISPOSAL
[Yellow-Orange]	TRUCK LOADING C NALCO WAREHOUSE TRUCK LOAD	2	3 & 4	VALVE 3 CLOSED DURING NORMAL OPERATIONS
[Yellow]	TRUCK PAVEMENT A OPERATIONS IBC BLOCK STANDING AREA	1	4	SITE ISOLATION VALVE 4 CLOSED DURING NORMAL
[Light Green]	TRUCK PAVEMENT B IBC WASHING & STORAGE	2	5 & 8	VALVE 5 CLOSED DURING NORMAL OPERATIONS
[Green]	PLANT ADMINISTRATION (UNCONTAMINATED)	NA		
[Blue Line]	ROOF DRAINAGE (UNCONTAMINATED)	NA		
[Yellow-Orange Line]	PAVEMENT DRAINAGE (COLOUR VARIES BY PAVEMENT)	NA		



	<table border="1"> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DN</th> <th>CHK</th> <th>APP</th> <th>DATE</th> </tr> <tr> <td>A</td> <td>AS CONSTRUCTED</td> <td>ANR</td> <td>SW</td> <td>SW</td> <td>24.12.24</td> </tr> </table>	REV	DESCRIPTION	DN	CHK	APP	DATE	A	AS CONSTRUCTED	ANR	SW	SW	24.12.24	<table border="1"> <tr> <th colspan="2">DRAWING CHECK</th> <th colspan="2">CO-ORDINATION CHECK</th> </tr> <tr> <td>SIGNATURE</td> <td>DATE</td> <td>SIGNATURE</td> <td>DATE</td> </tr> <tr> <td>ANR</td> <td>19.12.24</td> <td></td> <td></td> </tr> </table>	DRAWING CHECK		CO-ORDINATION CHECK		SIGNATURE	DATE	SIGNATURE	DATE	ANR	19.12.24				<p>Stronger Together</p> <p>1300 35 7363 covathinking.com ACN 117 492 814</p>	<p>PROJECT: REVESBY NSW</p>	<p>TITLE: REVESBY PLANT STORMWATER OVERVIEW CAPTURE & ISOLATION ZONES</p>	<p>5000 0 5000 10000 15000</p> <p>SCALE @ B1: 1:250</p> <p>DIMENSIONS IN MILLIMETRES</p> <p>DRAWING NO: 4378.030-C01</p>	<p>STATUS: AS CONSTRUCTED</p> <p>REV: A</p>
		REV	DESCRIPTION	DN	CHK	APP	DATE																									
A	AS CONSTRUCTED	ANR	SW	SW	24.12.24																											
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SIGNATURE	DATE	SIGNATURE	DATE																													
ANR	19.12.24																															

S:\Jobs\4378 Ecolab\4378.030 Revesby - Stormwater Catchment\1600 Outputs\02 Drawings\4378.030-C01.dwg

Drain- Pipe on site survey Summary of activities and documented in the site map:

Activities Conducted:

1. Site has engaged a plumber on site to conduct a survey using water, pipe camera, and dye to trace where the existing drainpipe flows.
2. After verifying where the water flows through water and dye, this is updated in the map for each area. Once the exercise has been completed, all existing drainpipes were documented and updated in the site map.
3. Colour coding of pipes and zones have been reflected in the map and showing valve control.
4. The drainpipe from the small sheds (Purple colour in map) are fully sealed and this has been confirmed to drain straight into the canal.
5. The drainpipes in the main warehouse (yellow and red colour in the map) are connected to the existing drains that is controlled via the site isolation valve (retention pond) and vales 1 and 2 in the main warehouse.
6. The drainpipes in the production wash-bay (green colour) is controlled by 3 valves (5, 6, and 8). This area stores empty IBC as staging and the valves are closed. This drainpipe was confirmed to be draining direct to the canal.
7. The Admin area drainpipes goes directly to the canal



REV-OHS-1301 Revesby Emergency Response Plan

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12941
version: 2
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Application: Corporate

Site: ASIA PACIFIC : AUSTRALIA : REVESBY

Subject Matter: Health and Safety : Occupational Health

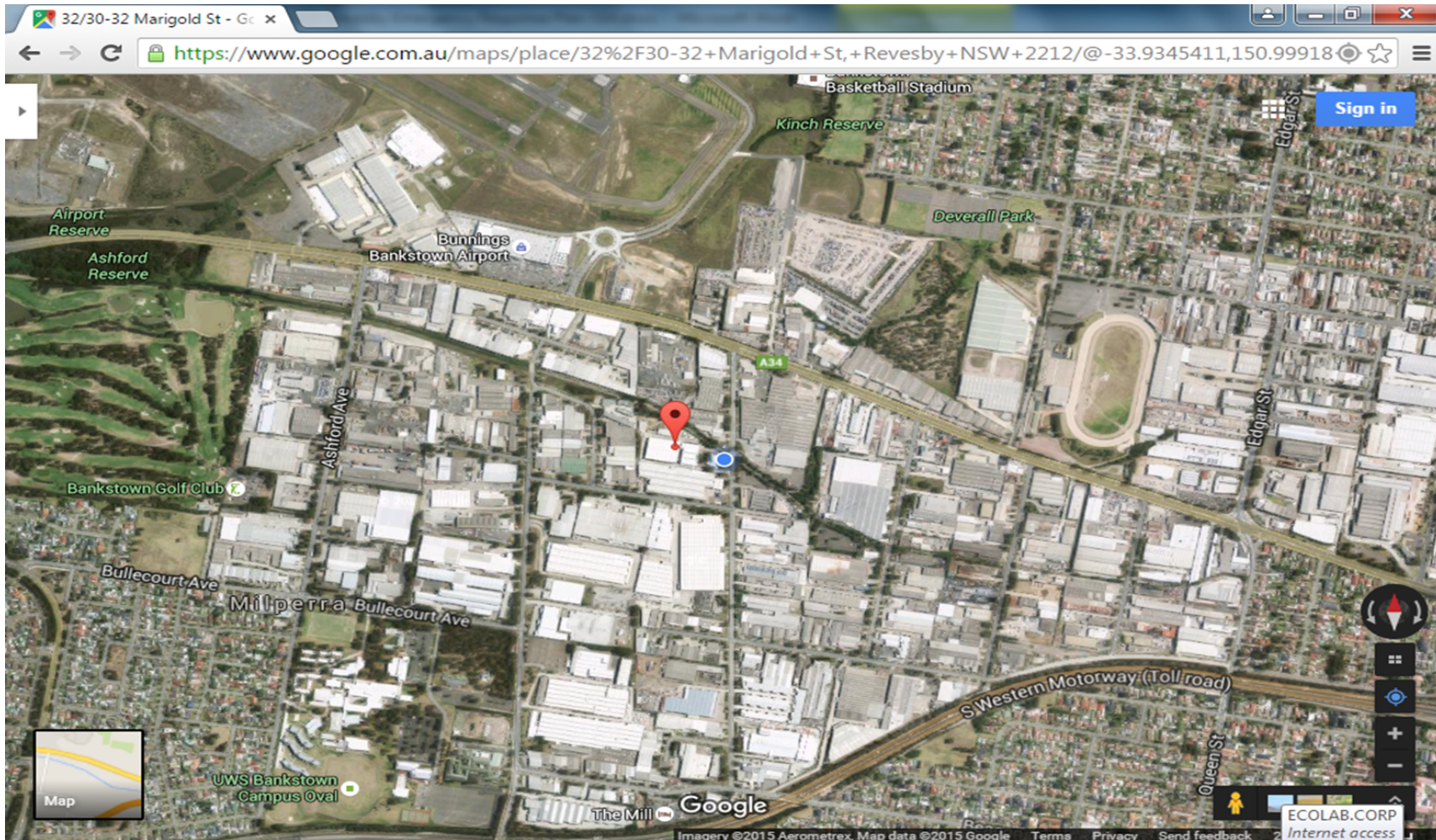
Process Owner: Supply Chain

Author: Reynaldo Lucas

Reviewed by: Amisbell Vega

Approved by: Reynaldo Lucas

Appendix A – Geographical Location of Site



Created Date: Dec 17, 2017

Effective date: Jul 14, 2024

Next review: Jul 15, 2027

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REV-OHS-1301 Revesby Emergency Response Plan

ID: PRO-03452 /
REV-OHC-1301; 7-
12941
version: 2
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Application: Corporate

Site: ASIA PACIFIC : AUSTRALIA : REVESBY

Subject Matter: Health and Safety : Occupational Health

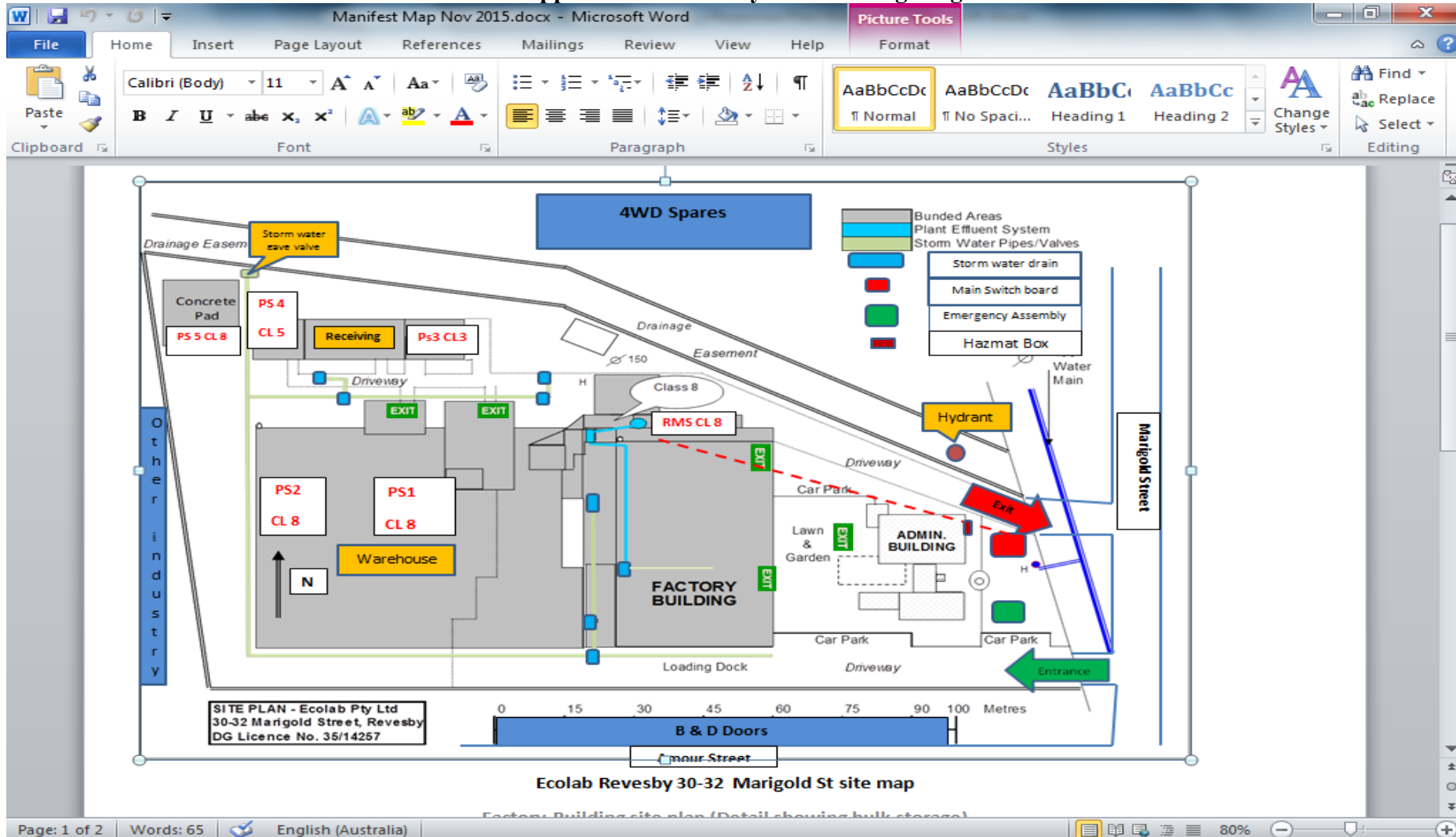
Process Owner: Supply Chain

Author: Reynaldo Lucas

Reviewed by: Amisbell Vega

Approved by: Reynaldo Lucas

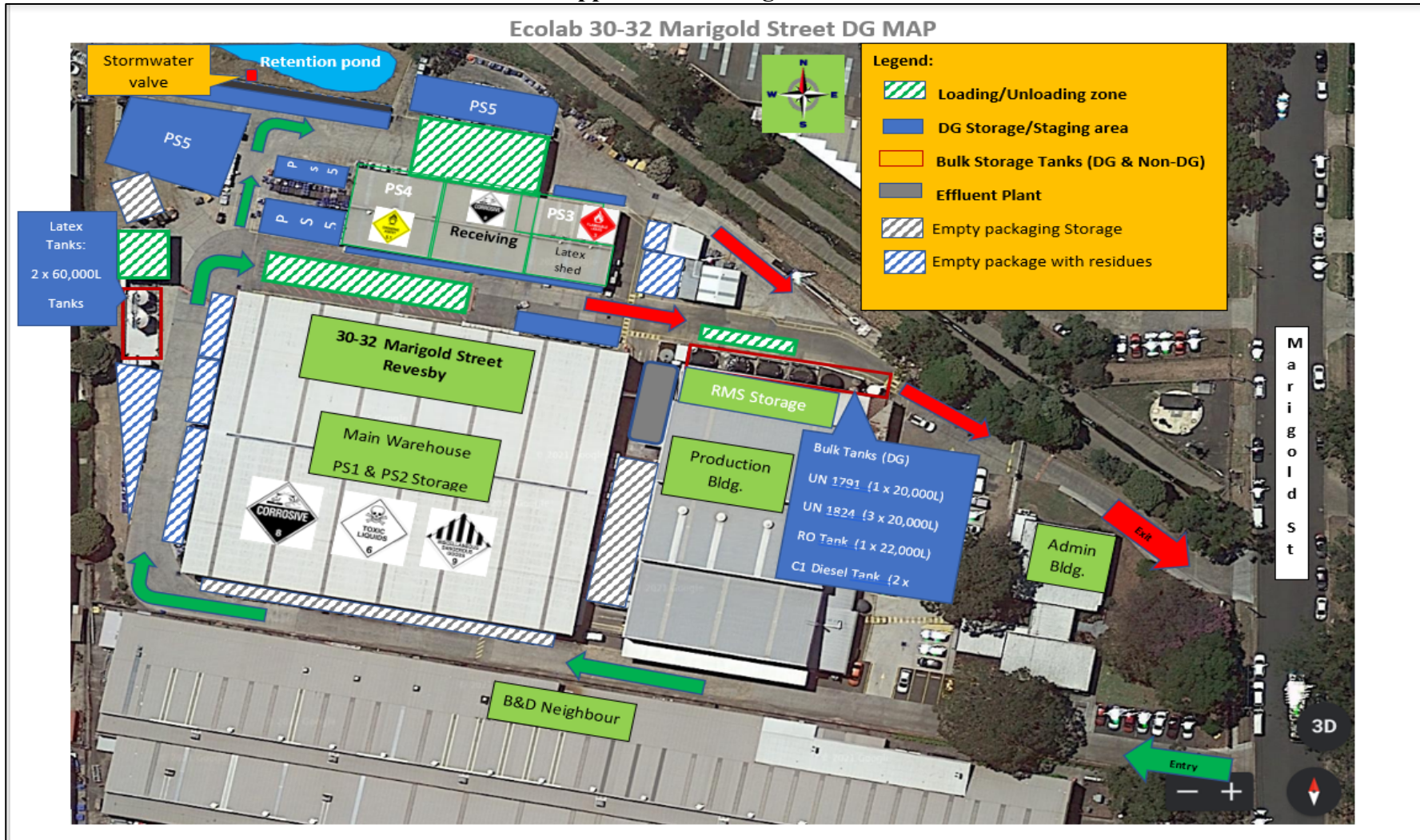
Appendix B – Site Layout Including Neighbours



Application: Corporate	Site: ASIA PACIFIC : AUSTRALIA : REVESBY
Subject Matter: Health and Safety : Occupational Health	Process Owner: Supply Chain
Author: Reynaldo Lucas	Reviewed by: Amisbell Vega
	Approved by: Reynaldo Lucas

Appendix C – Dangerous Goods Locations

Ecolab 30-32 Marigold Street DG MAP





REV-OHS-1301 Revesby Emergency Response Plan

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12941
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Application: Corporate

Site: ASIA PACIFIC : AUSTRALIA : REVESBY

Subject Matter: Health and Safety : Occupational Health

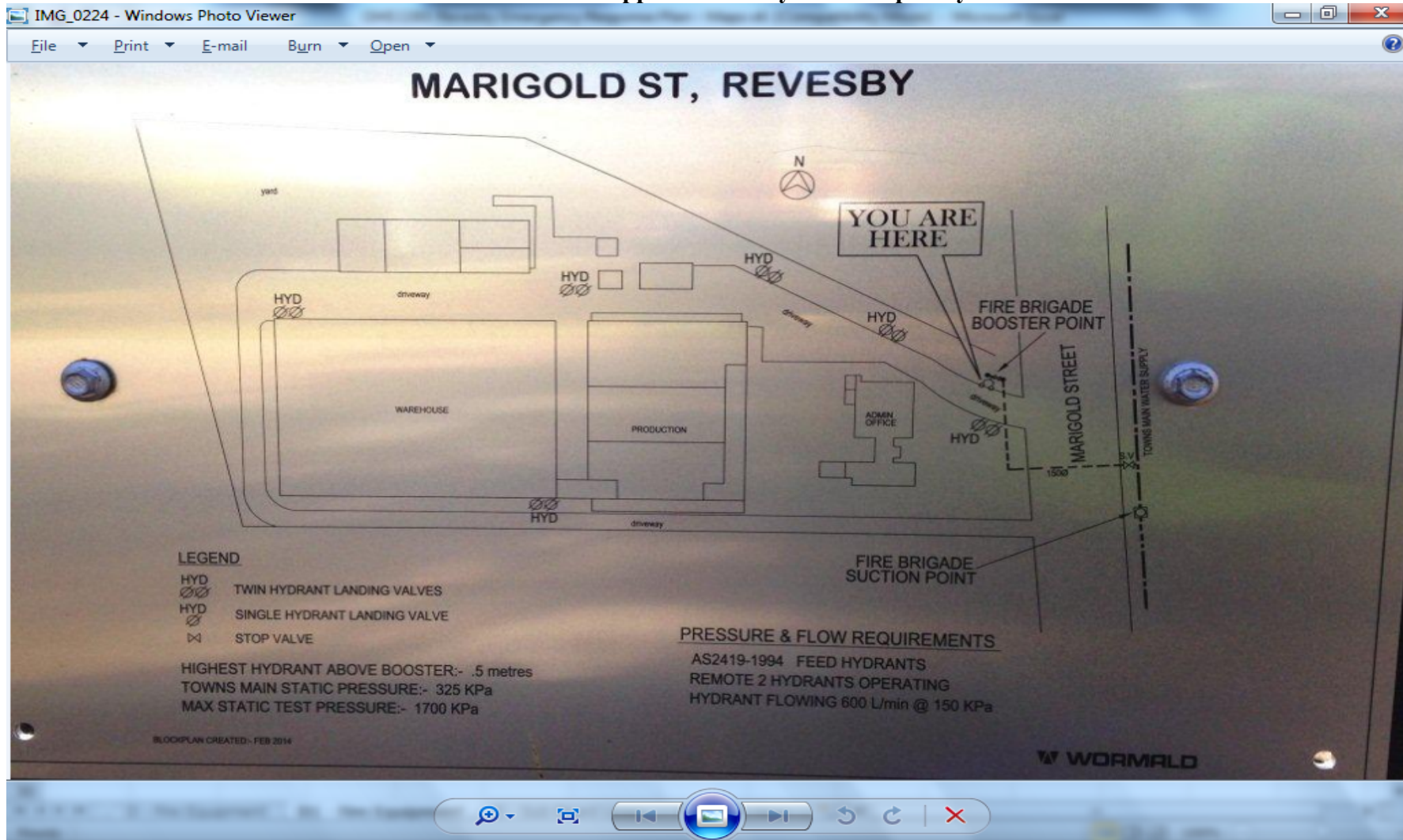
Process Owner: Supply Chain

Author: Reynaldo Lucas

Reviewed by: Amisbell Vega

Approved by: Reynaldo Lucas

Appendix D – Hydrant Map Only



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Effective date: Jul 14, 2024

Next review: Jul 15, 2027

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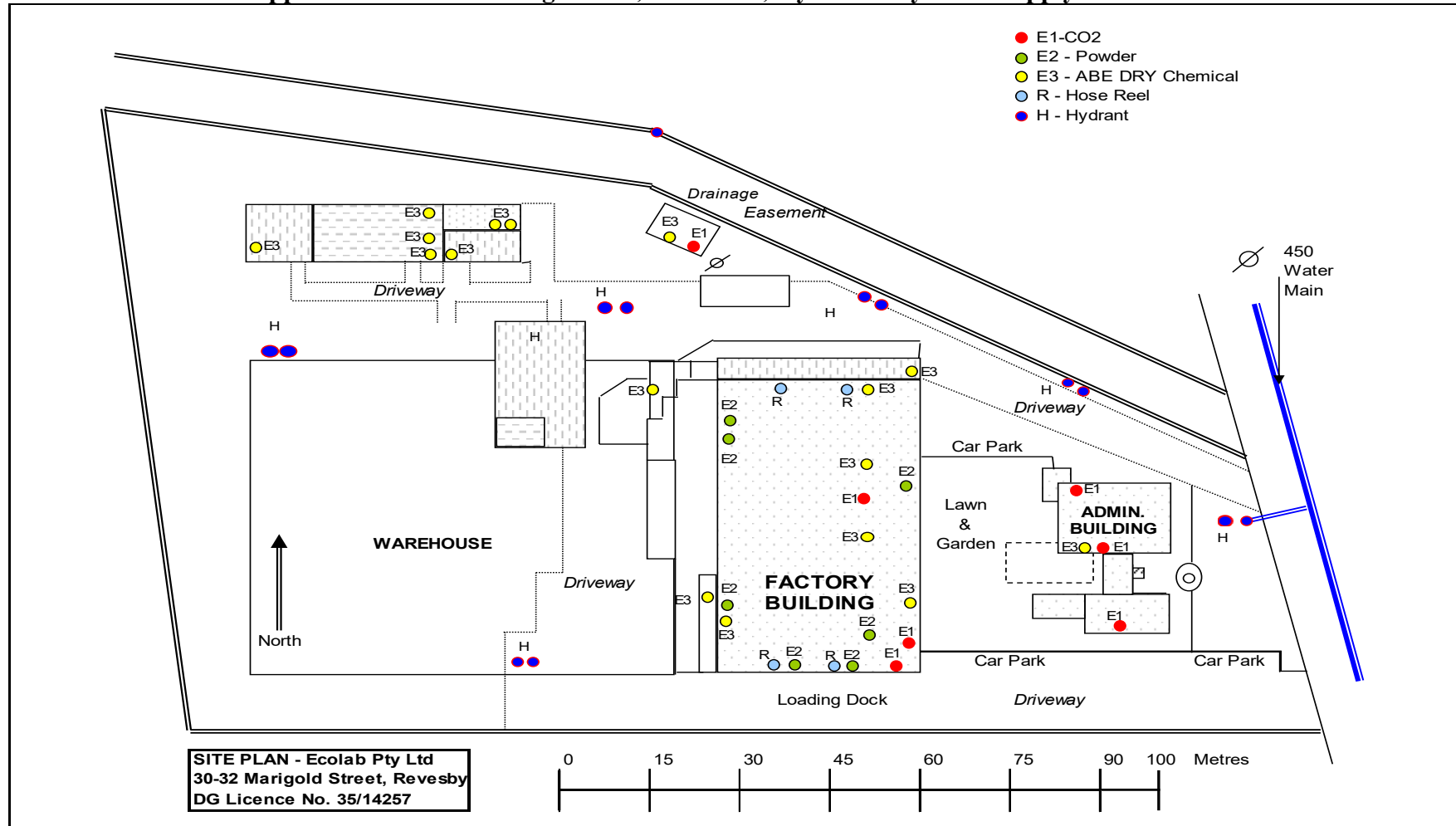


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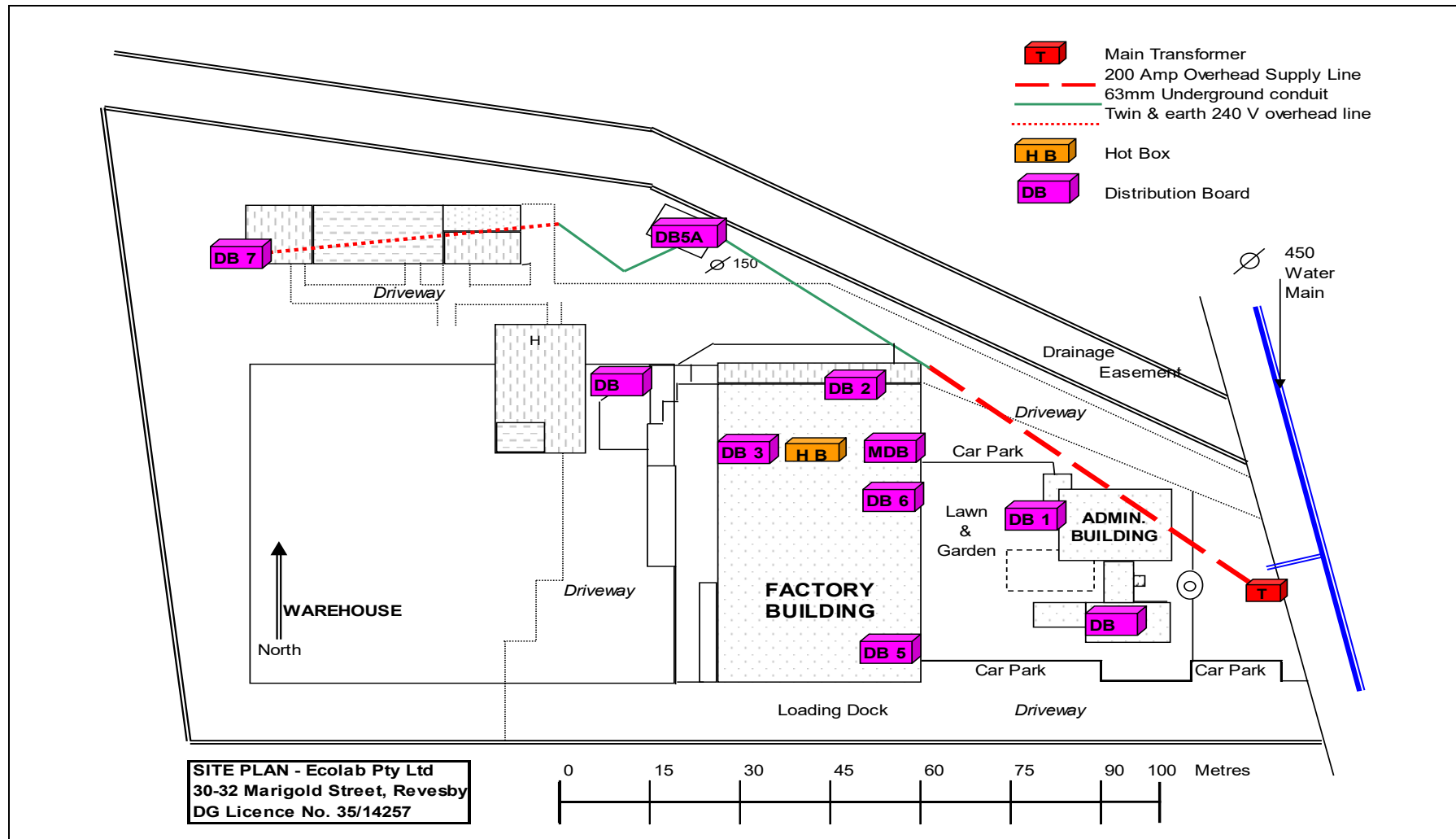
Application: Corporate	Site: ASIA PACIFIC : AUSTRALIA : REVESBY
Subject Matter: Health and Safety : Occupational Health	Process Owner: Supply Chain
Author: Reynaldo Lucas	Reviewed by: Amisbell Vega
	Approved by: Reynaldo Lucas

Appendix D1 – Fire Extinguishers, Hose Reel, Hydrant Layout & Supply Lines to Site



Application: Corporate	Site: ASIA PACIFIC : AUSTRALIA : REVESBY
Subject Matter: Health and Safety : Occupational Health	Process Owner: Supply Chain
Author: Reynaldo Lucas	Reviewed by: Amisbell Vega
	Approved by: Reynaldo Lucas

Appendix E – Sub-board supply lines and underground supply lines





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Application: Corporate

Site: ASIA PACIFIC : AUSTRALIA : REVESBY

Subject Matter: Health and Safety : Occupational Health

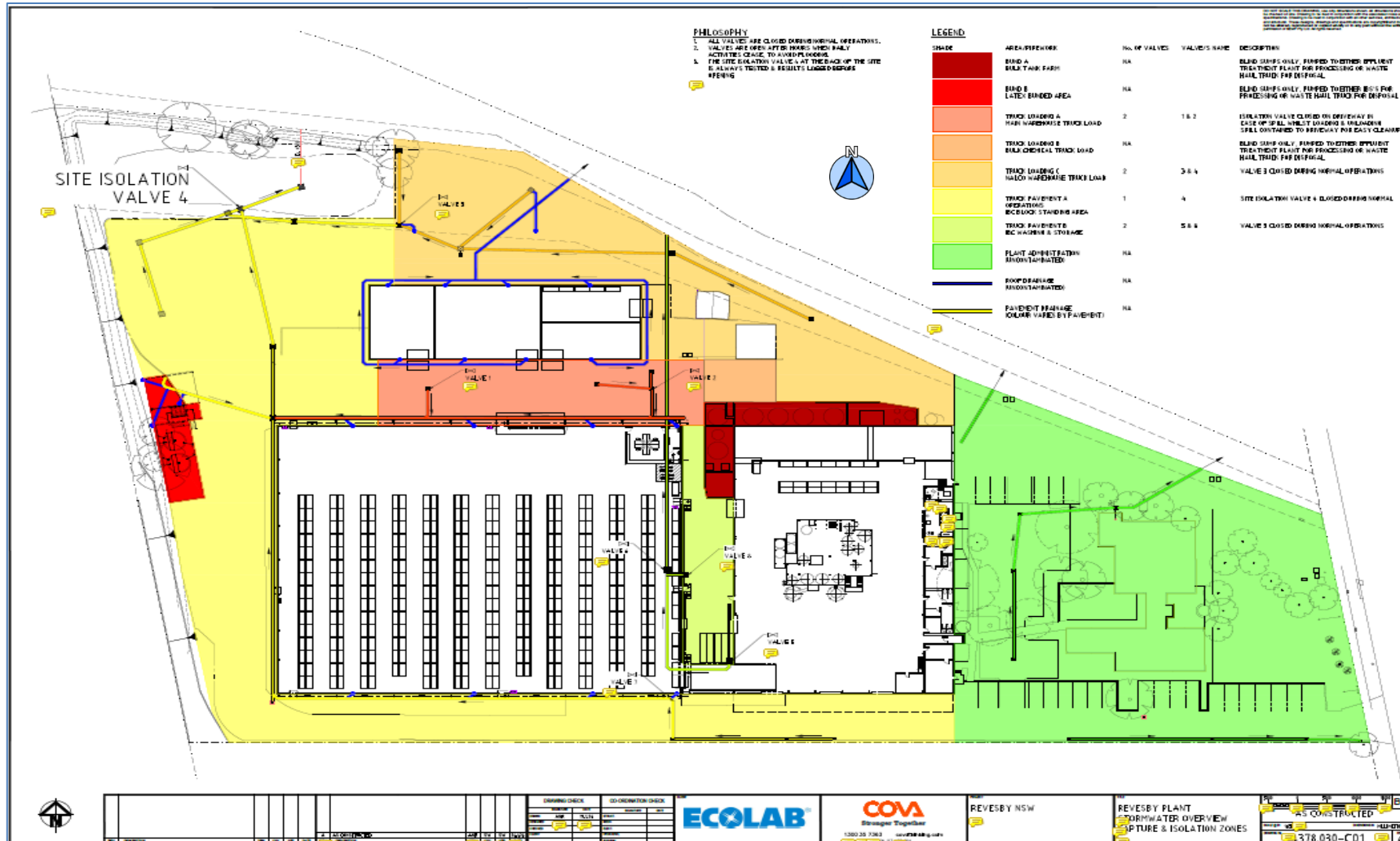
Process Owner: Supply Chain

Author: Reynaldo Lucas

Reviewed by: Amisbell Vega

Approved by: Reynaldo Lucas

Appendix F – Bunded Areas, Effluent System and Stormwater




Created Date: Dec 17, 2017

Effective date: Jul 14, 2024

Next review: Jul 15, 2027

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	REV-OHS-1301 Revesby Emergency Response Plan	ID: PRO-03452 / REV-OHC-1301; 7-12941 version: 2 page: 35 of 43
Application: Corporate		Site: ASIA PACIFIC : AUSTRALIA : REVESBY
Subject Matter: Health and Safety : Occupational Health		Process Owner: Supply Chain
Author: Reynaldo Lucas	Reviewed by: Amisbell Vega	Approved by: Reynaldo Lucas

Appendix G – Dangerous Goods Manifest

Refer to Emergency Information Box on North Wall of Main Office Building for general and itemised DG Manifest.





REV-OHS-1301 Revesby Emergency Response Plan

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12941
version: 2
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Application: Corporate	Site: ASIA PACIFIC : AUSTRALIA : REVESBY
Subject Matter: Health and Safety : Occupational Health	Process Owner: Supply Chain
Author: Reynaldo Lucas	Reviewed by: Amisbell Vega
	Approved by: Reynaldo Lucas

Appendix H – Site Personnel List and Emergency Response Team

- Chain of Command – Prior to the arrival of emergency services, the Emergency Response Leader has authority over others on site, including visitors and drivers.
- Once on site, Emergency Services Officers (Fire, Police, and Ambulance) have authority over all others.
- Fire services have authority over all other emergency services and others on site.
- If site is to be entered outside normal working hours, the security company are to be advised – Signature Security – 1800 023 351

Role	Primary Individual	Back-up
Emergency Response Leader	Reynaldo Lucas 02 87235507/0412490163	Craig Ryan (Plant Manager) 0407550954
Area Warden – Main office	Reynaldo Lucas 02 8723 5510	Craig Ryan 0407550954
Area Warden – Warehouse*	Matthew Carter 02 87235508	John Ennis 02 87235508
Area Warden – Plant & Workshop	Leng Ly 02 87235505	Franky Winoto 02 87235505
First Aid Co-ordinator	Amosa Mahe 02 87235505	Matthew Carter 02 87235508
First Aid Officers	Production – Amosa Mahe, Franky Winoto, Bhagawan Basnet, Amisbell Vega, Antony Varghese (Laboratory), Matthew Robinson (Maintenance) WH – Matthew Carter, Elyssa Coronel, John Ennis, Tarah Albee, Michael Murray, Robert Habib Admin – Rey Lucas, Craig Ryan	
Electrical/Equipment Services	Ian Anderson 02 87235505	
Communications Co-Ordinator	Reynaldo Lucas 0412490163	Elyssa Coronel 02 8723 5553
Area Managers/Coordinators	Amisbell Vega 0418 476 489	Tarah Albee 0487 700 051
Fire Team	Production – Leng Ly, Franky Winoto WH – Matthew Carter, John Ennis	
Gate Guard	Amosa Mahe 02 87235505	

* The Area Warden – Warehouse is responsible for escorting any drivers on site to the evacuation assembly point

Spills Involving Hazardous Goods in Transit

Emergency Response Contacts

Emergency Telephone	1800 022 002
Craig Ryan (NSW Plant Manager)	0407 550 954
Amisbell Vega (New Production Team Leader)	0418 476 489
Joseph Dowell (ANZ Distribution Manager – New)	0456 230 709
Tarah Albee (NSW Distribution Manager)	0487 700 051
Matthew Carter (Load Desk Administrator)	02 8723 5508
Reynaldo Lucas (SHEQ Manager)	0412 490 163
Mark Carroll (Supply Chain Director)	0418 242 816


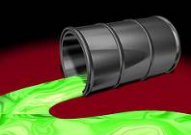






Created Date: Dec 17, 2017	Effective date: Jul 14, 2024	Next review: Jul 15, 2027
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Application: Corporate	Site: ASIA PACIFIC : AUSTRALIA : REVESBY
Subject Matter: Health and Safety : Occupational Health	Process Owner: Supply Chain
Author: Reynaldo Lucas	Reviewed by: Amisbell Vega
Approved by: Reynaldo Lucas	

Appendix I Emergency Procedures

- Evacuation Alarms are located: **Near the Bundy Clock** **Near Pre-stage area**
Near the Boiler Room **outside Warehouse office**
- If it is not safe to reach the alarm, contact **Tarah Albee (8723 5524)** or **Reynaldo Lucas (0412490163)** to make an announcement over the PA system
- The emergency evacuation assembly area is **in front of the front-office building next to the exit driveway.**
- The emergency response leader is responsible for co-ordinating the activities of the **Emergency Response Team.**

Type of Emergency	Contact	Action
Fire 	<ul style="list-style-type: none"> • Other people in the area • Supervisor • Plant Manager 	<ul style="list-style-type: none"> • If trained and safe to do so, use portable extinguisher, fire hose or blanket to treat fire. Otherwise exit the area. • Activate the evacuation alarm if the fire is not in control
Chemical Spill 	<ul style="list-style-type: none"> • Other people in the area • Supervisor • Plant Manager 	<ul style="list-style-type: none"> • If affected by the spill use the safety shower. • Assist other individuals to reach the safety shower if required. • Isolate the affected area and ensure isolation valve is closed • Activate the evacuation alarm if the spill poses risk to individuals (e.g. - creation of gas)
Severe Weather 	<ul style="list-style-type: none"> • Supervisor • Plant Manager 	<ul style="list-style-type: none"> • Stop computer use • Move away from windows to a safe, sturdy area
Gas Release 	<ul style="list-style-type: none"> • Other people in the area • Supervisor • Plant Manager 	<ul style="list-style-type: none"> • Inform others in the area of the gas release. • Isolate the affected area. • If individuals are at risk of being affected by the release activate the evacuation alarm.
Electrical Malfunction 	<ul style="list-style-type: none"> • Other people in the area • Supervisor • Plant Manager 	<ul style="list-style-type: none"> • Assist any person trapped or injured by the accident if safe to do so. Be aware of personal safety. • Isolate the location of the accident. • Do not return to the accident location until it has been assessed by the supervisor.
Bomb Threat 	<ul style="list-style-type: none"> • Other people in the area • Supervisor • Plant Manager 	<ul style="list-style-type: none"> • Remain calm. Do not panic • If the threat comes by telephone try to find out as much information about the bomb as possible – where it is, when it will go off, what it looks like, how it is activated. • If a suspicious package is identified do not touch it.
Vehicle Accident 	<ul style="list-style-type: none"> • Other people in the area • Supervisor • Plant Manager 	<ul style="list-style-type: none"> • Assist any person trapped or injured by the accident if safe to do so. Be aware of personal safety. • Isolate the location of the accident. • Do not touch anything at the accident location until it has been assessed by the supervisor.
Civil Disturbance 	<ul style="list-style-type: none"> • Plant Manager 	<ul style="list-style-type: none"> • Do not speak to anyone involved in the disturbance. • Where possible stay away from the areas to ensure your safety
Emergency at a Neighbour	<ul style="list-style-type: none"> • Plant Manager 	<ul style="list-style-type: none"> • The plant manager will make an assessment on actions to be taken and resources to be provided based on the emergency. • Coordinate with neighbours in relation to the emergency affecting the area