Ballina Shire Council PO Box 450 BALLINA NSW 2478 Australia

**Ballina Shire Council** 



# Pollution Incident Response Management Plan

# Wardell Wastewater Treatment Plant and Reticulation

Environmental Protection Licence # 5785

Document	Control	Trim Re	ef 12/52481	
Version	Date	Summary of Changes	Author	Checked
1	05/09/2012		A Swan	G Meredith
2	08/04/2013	Updated NSW Health contact numbers	T Partridge	
3	22/07/2014	Updated contact details	J Ransom	
4	22/08/2014	Updated NSW Shellfish Richmond River Co-ord #	J Ransom	T Mackney
5	12/05/2015	Updated Contacts	M Tomkins	
6	23/05/2016	Update Contacts and Site Chemical Information	T Lees	T Mackney
7	19/05/2017	Updated Contacts	G Meredith	T Lees
8	26/07/2018	Updated Contacts	G Meredith	T Lees
9	16/07/2019	Updated Contacts	G Meredith	T Lees
10	15/09/2020	Updated Contacts	G Meredith	T Lees
11	06/12/2021	Updated and Reviewed against 2020 Guidelines	T Lees	
12	25/02/2022	Update Contacts, Containment equipment, pollution monitoring protocol, Testing	J Suttor	T Lees

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### 1. Introduction

This plan has been developed to document the processes required to prepare for and respond to pollution incidents for the Wardell Wastewater Treatment Plant (WWTP) and associated reticulation (EPA Licence No. 5785) and ensure that hazards to the environment, human health and safety are reduced, if not eliminated. It has been prepared in accordance with the requirements of the Protection of the Environment Operations Act 1997 and Protection of the Environment Operations (General) Regulation 2009.

### 2. Scope

This Pollution Incident Response Management Plan applies to Wardell WWTP and Reticulation (EPA Licence No. 573). For site plans, refer Appendix 2 – Site Plans.

### 3. Pollution Incident Response Management Plan

The town of Wardell is serviced by approximately 12km of sewer mains and 8 pump stations which transfers sewage to the Wardell WWTP. Wardell WWTP treats approximately 450kL of sewage daily in dry weather, potentially reaching 5 times this flow during heavy rain periods. During sewage treatment, chemicals and by-products are produced which, if they are spilt or incorrectly managed, may contaminate the environment or threaten human health. A register of the chemicals is contained in Appendix 3 – Site Chemical Register.

### 3.1 Potential Incidents

The potential hazards to the environment include:

- Sewage overflow (raw or partially treated) potentially caused by:
  - Storms (lightning/heavy rainfall/wind) causing power failure or infrastructure damage
  - Reticulation blockages
  - Damage to reticulation (contractors or other damage during excavations etc)
  - Infrastructure failure due to age
  - SCADA/Communications failure
  - Excessive flows
  - Mechanical break down
  - Power outage
  - Treatment plant blockage
- Chemical or Bio-solids spill potentially caused by:
  - Tank/storage failure
  - Delivery incident
  - Damage to chemical reticulation
  - Vandalism
  - Inappropriate chemical use
  - Bund failure

A detailed assessment of risks is provided in Appendix 5 – Risk Assessment and Actions. For detail on actions to reduce risks see Section 3.5 Pre-emptive Measures and Appendix 6 – Action Plans to Minimise Harm

### 3.2 Incident Response

This section details the response requirements in the event of an incident.

During working hours the emergency number for Ballina Shire Council is 1300 864 444

These calls are taken by staff on the Ballina Shire Council Switch.

After working hours the emergency number for Ballina Shire Council is (02) 6626 6954

This call is answered by Immediate Reception, who informs appropriate personnel of issues and incidents.

Containing, minimising and cleaning up hazardous substances may involve the following processes as required:

- Attempt to stop the flow of the substance at the source.
- Place sand or soil in the shape of a bund around the spill to contain it.
- Place absorbent material (preferably from a spill kit) over the spill to soak up the substance and store in a container.
- In the event of a pump station overflow, upstream flows need to be managed and isolated using SCADA to extend the sewer holding/storage time.
- If a large quantity has been spilt, provide a bund or cut off walls at points along the flow direction to prevent the substance entering stormwater drains or waterways, this may need to be done in several places to store the quantity spilt.
- Remove any excess sewage spills using a pump out or vacuum tanker where practical.
- Remove any solid wastewater material and contaminated soil and dispose of to landfill.
- Public areas contaminated with wastewater (not waterways) may require disinfection (confirm with the Environmental Health Officer).
- Seek advice from senior staff on method of removal that could involve specialist clean up.

Follow-up actions	Responsibility
If directed by the EPA or Environmental Health Officer, investigate and organise sampling of surrounding waterways and/or soils and notify the treatment plant engineer of outcomes.	Treatment Plants and Capital Works Engineer, Project and Operations Engineer, Operations Engineer to engage EHO's to collect samples.
Contaminated land is to be disinfected, ponded sewage pumped out and faecal coliforms are to be monitored until background levels are reached. Council will publish this monitoring data on its website (environment >> published environment monitoring data).	Team Leader Water and Wastewater, Supervisor Water and Wastewater Treatment
Provide the EPA with a written report of the incident within 7 days in accordance with the POEO Act. To likely be drafted by the Engineer that raised the PIRMP.	Treatment Plants and Capital Works Engineer, Project and Operations Engineer, Operations Engineer

Refer to Appendix 1 – Stakeholder Contact Details for a comprehensive list of contact details.

### 3.2.1 Human health or Safety Incident

If there is immediate threat to Human health or Safety, call triple zero "**000**" (try "**112**" if call is unsuccessful) and implement the following process:

- 1) Implement the EMERGENCY RESPONSE PROCEDURE
- 2) If required, evacuate the site.

- 3) Contact Team Leader (Garry Meredith 0428 811 277) and/or Manager Water and Wastewater (Bridget Walker 0474 009 041)
- 4) Report the incident to the Coordinator of Risk Management (Stuart Roach 0408 245 502)

### 3.2.2 Pollution incident

During a pollution incident which involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, Ballina Shire Council must verbally notify the following authorities immediately:

1) Immediate supervisor

2)	EPA Environment Line (written report to be provided within 7	days)	131 555
3)	NSW Health (Local Health District Public Health Unit)	or AH:	1300 066 055 0428 882 805
4)	Fire & Rescue NSW		1300 729 579
5)	SafeWork NSW		131 050
6)	BSC Environmental Health Officer	or AH:	(02) 6686 1210 (02) 6626 6954

All communications with emergency response agencies due to incidents that apply to this plan must be made through the **Team Leader Water and Wastewater**.

Ballina Shire Council should also consider contacting the following as soon as practical:

- 1) The staff member's Supervisor, Coordinator and Manager
- 2) Affected neighbours
  - a. Rob McDonald (Turf Farm)
     0402 411 633
- 3) NSW Shellfish Program Manager

### and email nswsp@foodauthority.nsw.gov.au

(02) 9741 4749

or AH: 0407 078 269

- 4) NSW Shellfish Richmond River Coordinator ((02) 6686 3394)
- 5) Oyster Farmers (update annually)

	Name	Location	Home	Mobile	Work			
	a) Ray Hunt	North Creek		0414 884 274				
	b) Geoff Lawle	r North Creek	(02) 6686 7163		(02) 6686 3394			
	c) Ian Cardow	Serpentine		0438 237 359	(02) 6686 3270			
6)	6) Cape Byron Marine Park Authority (02) 6620 9300							
7)	Fisheries				1800 043 536			
8)	Life Guards				0432 217 500			
9)	Chemical suppli	er			Refer to the SDS			
10)	Aboriginal Land	Council			(02) 6686 7055			
11)	11)Police (02) 6681 8699							
12)	2)Rous Water (02) 6621 8055							
;					Approval Date			

### 13) Department of Primary Industries Water (Terry Call)

### 3.2.3 Contained Overflows

During a pollution incident in which Council staff respond within sufficient time to fully contain the spill and prevent an incident of actual or potential harm to the health or safety of human beings or to ecosystems, the following notification should be made as soon as practicable (within 24 hours):

or AH: (02) 6626 6955

(02) 6627 0100

- 1) Team Leader Water and Wastewater
- 2) Operations Engineer, Water and Wastewater via email

In all situations where there is damage and/or loss to private property or a member of the public due to an incident related to this plan, contact:

1) Stuart Roach (Coordinator of Risk Management) (02) 6686 1406

The incident response required depends on the type of incident that has occurred.

### 3.3 Community notification

Impacts on the community due to sewage distribution and treatment incidents are variable and depend on location, volumes of spills or other factors. Communication methods will be used on a case by case basis and in all situations Ballina Shire Council will attempt to provide early warning to directly affected premises (either upstream or downstream depending on tidal impacts where relevant) by phone call or site visit. Early warning is to include details of what the incident is, how those affected can prepare and respond, and provide important advice such as avoiding contact and use of affected waterways.

Where early warning is not possible Ballina Shire Council will provide notification and communication during and after an incident to advise those affected with information, advice and updates. Notification and communication methods will be determined on a case by case basis and should made in conjunction with input from Council's Public and Environmental Health and Communication Teams.

1) Kerri Watts (Manager Public and Environmental Health) (02) 6686 1265

2) Caroline Klose (Manager Communications and Customer Service) (02) 6686 1296

In the event of a chemical or sewage spill into stormwater or waterway, Ballina Shire Council staff are to go to prominent and/or high use areas of the affected waterway and erect signage. The signs are to warn water users of the contamination and advise them to avoid activities such as swimming, fishing, shell fish collection and boating until contamination has cleared. Additionally, if the event occurred or was occurring during dry weather, Ballina Shire Council staff are to attend popular sites and advise users directly.

Contaminated land is to be disinfected, ponded sewage pumped out and faecal coliforms are to be monitored until background levels are reached. Council will publish this monitoring data on its website (environment >> published environment monitoring data).

Regular communication and notification is to be provided until the incident and clean up of impacted site and affected areas has been complete (e.g. faecal coliforms have returned to background levels). Ballina Shire Council is to take signs down and advise the public that regular activities can be resumed by (as required):

- Phone calls
- Media releases (radio/television/newspaper/internet/social media as required)
- Letter drops
- Other methods as the situation requires

### 3.3.1 Incidents at the Wastewater Treatment Plant

The township of Wardell is approximately 1.5 km away from the Wardell WWTP. The nearest neighbour from the Wardell WWTP is approximately 600 metres away. There is nothing onsite that would create an emergency for any neighbours. Additionally, the inflow into this plant and the available storage means that even at peak wet weather flows the potential of an overflow from this plant is low. However, if an incident did occur it would result in a spill onto the turf farm and be unlikely to impact on the environment or health and any community members or neighbours were affected then the processes listed in Section 3.3 Community notification above would be implemented as required.

### 3.4 Incident Investigation

All emergencies must be investigated. For all other incidents, the manager (with guidance from review personnel) will decide whether an incident investigation will be conducted. When an incident investigation is required, the relevant manager is responsible for:

- Forming the investigation team
- Co-ordinating the investigation

A de-brief is to be conducted for all emergency incidents. However, the responsible manager may also initiate de-briefs for other incidents where they feel it is appropriate.

### 3.5 **Pre-emptive Measures**

### 3.5.1 Physical and preventative measures

First priority for pre-emptive measures is to eliminate substances that can become potential pollutants. If this is not possible, physical barriers should be installed to prevent pollutants from entering the environment such as bunding and spill drainage containment. At Wardell WWTP, all chemical storages are bunded to ensure that if the storage fails the pollutant is contained and treatment process bypasses are installed to prevent partially treated sewage spills due to reticulation issues. Additionally, the reticulation, pump stations, and Wardell WWTP have multiple alarm systems to alert operators of conditions that may result in incidents, which include:

- High level alarms
- Communication failure
- Chemical bund alarms
- Motor issue alarm
- No flow/high flow alarms

In the event that these systems fail, Ballina Shire Council has portable bypass pumps and other containment options available.

### 3.5.2 Preventative monitoring and maintenance

Ballina Shire Council uses monitoring and preventative maintenance to reduce the potential for incidents at both the WWTP and for the reticulation and pump stations. These separated in the following timeframes:

- Daily
- Weekly
- Monthly to Annually
- Longer term (capital works and maintenance programs)
- Daily:
  - The WWTP is to be attended daily and the following inspected:
  - Maintenance requirements
  - Chemical quantities
  - Plant performance data
  - House keeping issues that requiring attention

- Vandalism and/or thefts
- Issues with bunds
- Check bund valves are closed
- Alarms workings

### • Weekly:

For the reticulation and associated pump stations staff are to conduct weekly pump station checks using the *Weekly Sewage Pump Station Maintenance Form.* 

- Monthly to Annually:
  - The following is to be checked monthly for the reticulation and pump stations:
  - Alarm testing power fail, critical float
  - Rain gauges Electricians

The following is to be checked or conducted every three months:

- All valve operations exercising, maintenance
- Inlet Valves exercising, maintenance
- Isolation Valves exercising, maintenance
- Spray and exercise locks

The following is to be checked or conducted every six months:

- Backup Batteries
- Fire Extinguishes
- Odour Beds and Sprinkler System inspection
- Overflow Plugs inspection
- Remove grit with suck truck Vacuum Truck
- Stink Pipe cartridges and whirly bird inspection
- Sump Pumps Dry Well PS's
- Vermin/Insect Protection

The following is to be checked or conducted annually:

- Lopping and pruning of trees surrounding PS's
- Painting
- Prune trees around odour beds
- Pump Performance Testing (Citect and Draw-down tests)
- RPZ Testing
- Team Training New Technologies and Upgrades
- Trade waste system inspections
- CCTV and Jetting for repeat chokes
- Tree removal where there are repeat chokes
- Inspection and mowing of pipeline easements
- Condition assessment of above ground rising mains
- Bund integrity (WWTP)

Other checks include manhole inspection, maintenance, repair and resealing (as required) safety net checks (bi-annually), renewing woodchips and gravel (as required) and inspecting and exercising Overflow Flaps (after heavy rainfall).

### **3.6** Training & Competency

All staff required to implement this plan and associated documents must have training in its use and be inducted into it. This is to ensure they are aware of the content, processes and requirements of this plan and can competently implement it if necessary. Additionally, relevant staff will be involved in an annual

exercise/drill to test the implementation of the plan. In the event of a significant incident, an investigation and debrief will be conducted, documentation updated (if required) and staff will be re-inducted.

All, desktop exercises, drills and incidents are to be registered into Council's Document Management System (TRIM), and training records will tasked through TRIM to Council's Risk & Human Resources Department who will record the training into Council's Human Resources Information System (HRIS).

### 4. Responsibility

The Manager Water, Wastewater and Waste is responsible for the implementation of this Plan.

### 5. References

- EPA NSW Environmental Guidelines: Preparation of pollution incident response plans
- Local Government Act 1993
- Protection of the Environment Operations Act 1997
- Protection of the Environment Operations (General) Regulation 2009
- Protection of the Environment Operations Amendment Act 2011
- Protection of the Environment Operations Amendment Act 2014
- Protection of the Environment Operations Legislation Amendment (Schedule Activities) Regulation 2019
- Environmental Legislation Amendment Act 2022
- Public Health Act 1991
- Water Administration Act 1986

### 6. Dictionary

**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 or odour (see the POEO Act 1997).

Harm to the environment: harm to the environment is material if:

- 1) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is **not trivial**, or
- 2) 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 and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.

### 7. Testing of the PIRMP

It is a legal requirement to test the plan every 12 months and within one month of any pollution incident. This testing should include simulation of desktop scenarios including practical exercises and incident drills. All contacts including names and numbers are to be reviewed and updated as required. Testing must cover all components of the plan. The PIRMP should be tested and updated within 1 month of a pollution incident. In this case it should be considered whether the information in the PIRMP is accurate and up to date and whether the plan is adequate and effective for managing the response to pollution incident.

Date tested	Participants	Details of test (e.g. nature of the test, involvement of other agencies)	Finding of test (including issues identified)	Next scheduled testing date
31/05/2018	Treatment Operations	Desktop	No issues identified	May 2019
31/05/2019	Treatment Operations	Desktop	No issues identified	May 2020
31/05/2020	Treatment Operations	Desktop	No issues identified	May 2021
31/05/2021	Treatment Operations	Desktop	No issues identified	May 2022

# Appendix 1 – Stakeholder Contact Details

Organisation	Contact	Phone	Email
NSW EPA Environm		131 555	info@environment.nsw.gov.au
			and
			<u>north.coast@epa.nsw.au</u>
NSW EPA	Peter Lynch	(02) 6640 2502	peter.lynch@epa.nsw.gov.au
		0438 208 131	
NSW EPA	Janelle	(02) 6640 2513	janelle.bancroft@epa.nsw.gov.au
	Bancroft	0447 139 638	
NSW Health		1300 066 055	NNSWLHD-NCPHU-
		0428 882 805	EnvironmentalHealth@health.nsw.gov.au
	<u> </u>		
NSW Health	Paul	(02) 6620 7525	Paul.Williamson@health.nsw.gov.au
	Williamson	0414 569 516	
SafeWork NSW		131 050	
BSC Environmental	Health Officer	(02) 6686 1210 (02) 6626 6954	
BSC (Public &	Kerri Watts	(02) 6686 1210	Kerr.watts@ballina.nsw.gov.au
Environmental		0414 192 311	
Health, Manager)			
BSC (Water &	Garry Meredith	1300 864 444	garrym@ballina.nsw.gov.au
Wastewater,		0428 811 277	
Team Leader)			
BSC (Water &	Gabrielle	(02) 6686 1294	Gabrielle.denniss@ballina.nsw.gov.au
Wastewater,	Denniss	0428 197 329	
Operations			
Engineer)			
BSC (Water &	Bridget Walker	(02) 6686 1226	bridget.walker@ballina.nsw.gov.au
Wastewater,		0474 009 041	
Manager)			
BSC Risk & Human	Resources	(02) 6686 1202	
Department		(02) 6686 1430	
BSC	Stuart Roach	(02) 6686 1406	sroach@ballina.nsw.gov.au
(Coordinator,		0408 245 502	
Risk			
Management)			
Fire & Rescue NSW		1300 729 579	
NSW Shellfish		(02) 9741 4749	nswp@foodauthority.nsw.gov.au
Program Manager		0407 078 269	
NSW Shellfish	Geoff Lawler	(02) 6686 3394	
<b>Richmond River</b>		-	
Coordinator			
Oyster Farmer	Ray Hunt	0414 884 274	
(North Creek)			
Oyster Farmer	Geoff Lawler	(02) 6686 3394	
(North Creek)		(02) 6686 7163	
Oyster Farmer	Ian Cardow	(02) 6686 3270	
(Serpentine)		0438 237 359	
Cape Byron	(02) 6620 9300		
Marine Park			
Authority			
Fisheries		1800 043 536	

Life Guards		0432 217 500	
Chemical Supplier	S	Refer to SDS (ChemAlert)	
Aboriginal Land C	ouncil	(02) 6686 7055	
Police		(02) 6681 8699	
Rous Water		(02) 6621 8055 (02) 6626 6955	
DPI Water	Terry Call	(02) 6627 0100	terry.call@dpi.nsw.gov.au
Tweed Lab	Paul Wright	(07) 5569 3101	paulw@tweed.nsw.gov.au and samplereception@tweed.nsw.gov.au
Pathology North Lismore	Erin Lysaght	(02) 6620 2926	Erin.Lysaght@health.nsw.gov.au
Environmental Analysis Lab, SCU, Lismore	Graeme Lancaster	(02) 6620 3678 0419 984 088	graham.lancaster@scu.edu.au
Australian Laboratory Services (ALS)	Sally Mitchell	(07) 3552 8676	sally.mitchell@alsglobal.com
	Admin	(07) 3243 7222	angel-no-reply@alsglobal.com

### Appendix 2 – Site Plans

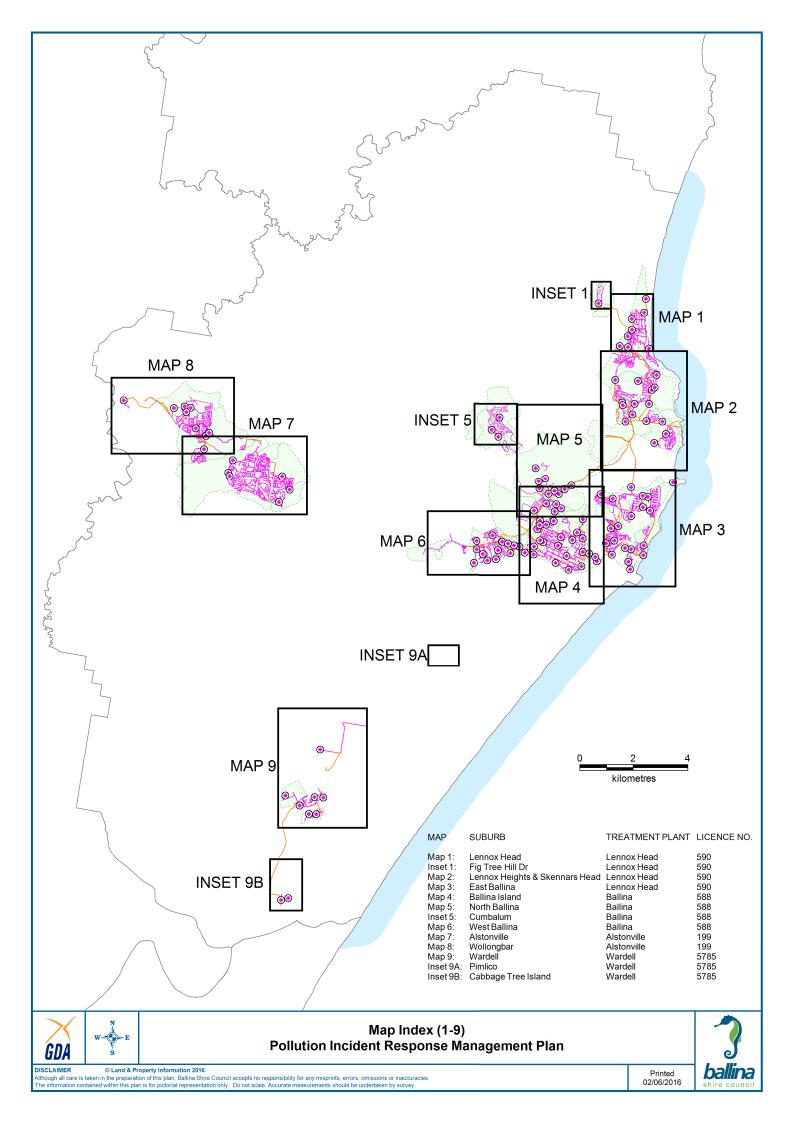
The Site Plans are constructed using the best current available data and are considered uncontrolled when printed. It is expected that reference will be made to the interactive electronic version of the maps through Council GIS systems. All PIRMP diagrams are in one plan set, the full list of plans are listed below:

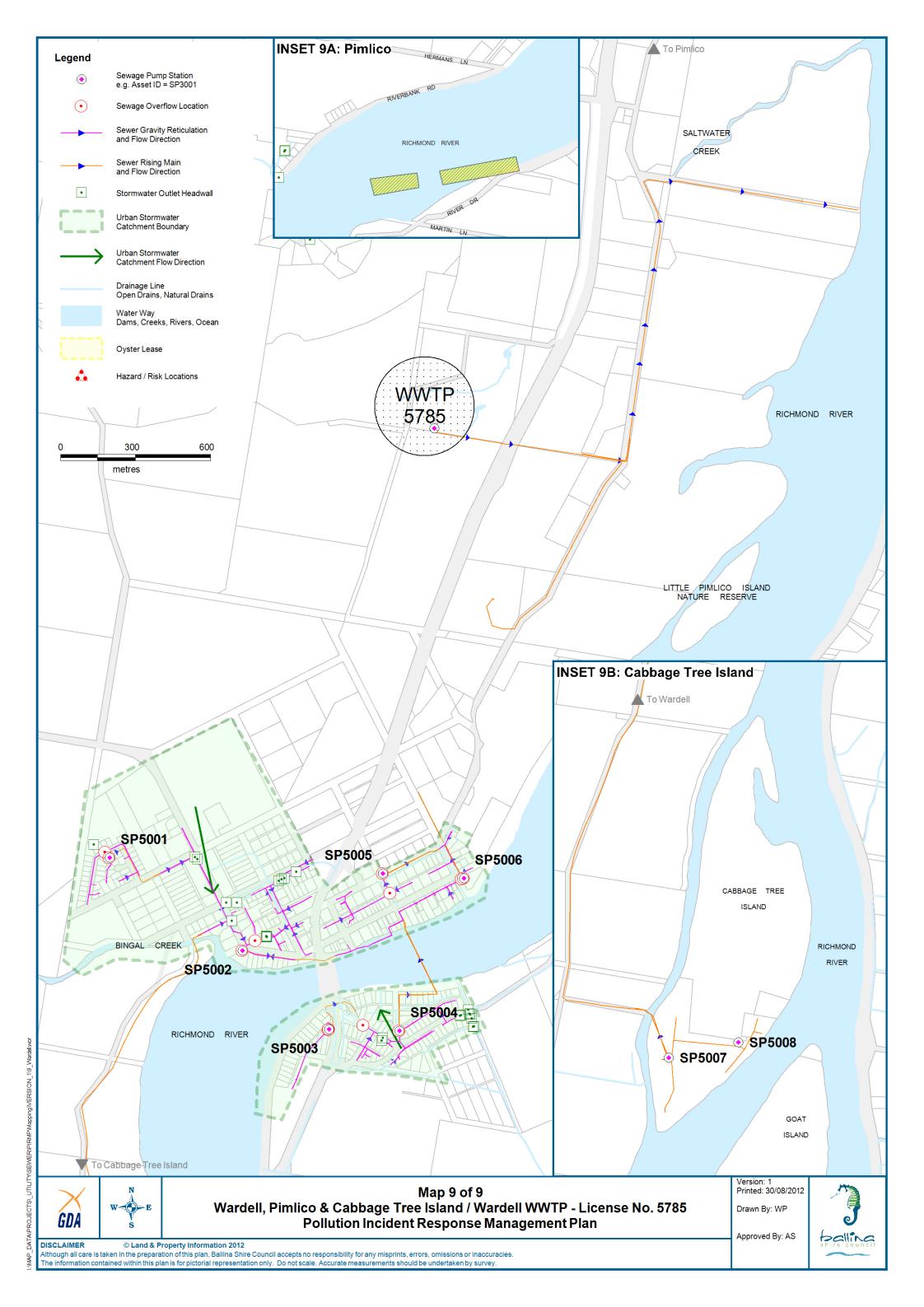
sewerage neticalation maps			
Map Number	Title	Treatment Plant	Licence No.
na	Map Index (Maps 1-9)	All	All
		Lennox Head	
1 of 9	Lennox Head & Fig Tree Hill Dr	WWTP	590
		Lennox Head	
2 of 9	Lennox Heights & Skennars head	WWTP	590
		Lennox Head	
3 of 9	East Ballina	WWTP	590
4 of 9	Ballina Island	Ballina WWTP	588
5 of 9	Cumbalum & North Ballina	Ballina WWTP	588
6 of 9	West Ballina	Ballina WWTP	588
7 of 9	Alstonville	Alstonville WWTP	199
8 of 9	Wollongbar	Alstonville WWTP	199
9 of 9	Wardell, Pimlico & Cabbage Tree Island	Wardell WWTP	5785

### Sewerage Reticulation maps

#### Licensed Facility Maps

Map Number	Title	Treatment Plant	Licence No.
na	Lennox Head WWTP		590
na	Ballina WWTP		588
na	Alstonville WWTP		199
na	Wardell WWTP		5785
na	BSC Airport Sandpit		5948
na	Ballina Waste Management Centre		6350







# Appendix 3 – Site Chemical Register

Council maintains its chemical register using the ChemAlert system. Copies are considered uncontrolled when printed.



# Stock Register

(Location Name: BALLINA SHIRE COUNCIL/ WATER & WASTEWATER STP'S/ WARDELL STP , Child Locations Included)

(Sort By: Colour Rating, Filter By: None)

Stock	Product Name				Supplier (Emergency Contact)				
Number	Hazardous	Dangerous Good	UN number	Packing Group	Hazchem Code	Status	In Stock Inventory	Risk Assessment	SDS Date
114	54G-LINE DULUX WE	ATHERSHIELD EXTERIOR	GLOSS		DULUX GROUP (AUST	TRALIA) PTY LTD (18	300 220 770/ 0800 2	20 770)	
	No	No	-	-	-	Approved - with Restrictions	Yes	-	18-Mar-2019
75	ENVIRO DRYSORB	ENVIRO DRYSORB				A PTY LTD ((02) 999	8 5656)	11	
	No	No	-	-	-	Approved - with Restrictions	Yes	-	22-Jul-2019
750	VALVOLINE VALPLEX	CEP GREASE			VALVOLINE (AUSTRA	LIA) PTY LTD (1800 8	804 658, New Zeala	nd (02) 8603 2300)	
	No	No	-	-	-	None	Yes	-	09-Aug-2017
865	2 STROKE ENGINE C	2 STROKE ENGINE OIL				LIA) PTY LTD (1800 8	304 658, New Zeala	nd (02) 8603 2300)	
	Yes	No	-	-	-	None	Yes	-	10-Mar-2020
269	AQIUM GEL ETHANOL 70% W/W (AUST R 179333)				EGO PHARMACEUTIC	CALS PTY LTD ((03) 9	586 8800; 1800 03	3 706/ 13 11 26)	
	Yes	DG 3	UN 1170	PG II	•2YE	None	Yes	-	08-Apr-2020
22282	AQUAFAST LOW RANGE AMMONIA SET				THERMO FISHER SCIENTIFIC AUSTRALIA PTY LTD ((03) 9757 4559/ (02) 8014 4558)				
	Yes	No	-	-	-	Approved - No Restrictions	Yes	-	<u>04-Dec-2016</u>
7	ASSASSIN			·	MOMAR AUSTRALIA PTY LTD (1800 267 933)				
	Yes	DG 2.1	UN 1950	-	2YE	None	Yes	-	30-Sep-2021
102	INOX-MX3 AEROSOL	CANDAN INDUSTRIES PTY LTD ((07) 5574 8205)							
	Yes	DG 2.1	UN 1950	-	2YE	Approved - with Restrictions	Yes	-	28-Feb-2022
885	LAUNDRY POWDER			·	BUNZL AUSTRALASIA	LIMITED (13 11 26 (	Poisons Information	Centre)/ 0800 764 7	66)
	Yes	No	-	-	-	None	Yes	-	<u>01-Oct-2016</u>
22314	LUGOL SOLUTION (L	6146)			SIGMA-ALDRICH PTY.	. LTD. (1800 448 465/	(02) 9037 2994)		
	No	No	-	-	-	Approved - No Restrictions	Yes	-	20-Jul-2021
149	METHYLATED SPIRITS				RECOCHEM INC ((07)	3308 5200; 1300 131	001 (After hours)/	0800 764 766)	
	Yes	DG 3	UN 1170	PG II	•2YE	Approved - with Restrictions	Yes	-	31-Jan-2022
918	MORTEIN FAST KNO	CKDOWN CRAWLING INSE	ECT KILLER ODOURI	LESS AEROSOL	RB (HYGIENE HOME)	AUSTRALIA PTY LTI	D (13 11 26 (PIC))		
	Yes	DG 2.1	UN 1950	-	2YE	None	Yes	-	15-Jan-2018



# Stock Register

(Location Name: BALLINA SHIRE COUNCIL/ WATER & WASTEWATER STP'S/ WARDELL STP , Child Locations Included)

(Sort By: Colour Rating, Filter By: None)

Stock	Product Name				Supplier (Emergency Contact)				
Number	Hazardous	Dangerous Good	UN number	Packing Group	Hazchem Code	Status	In Stock Inventory	Risk Assessment	SDS Date
349	PEA BEU RAPID KILI	L INSECT KILLER AEROSO	L		RB (HYGIENE HOME)	AUSTRALIA PTY LT	D (13 11 26 (PIC))		
	Yes	DG 2.1	UN 1950	-	2YE	Approved - No Restrictions	Yes	-	PRODUCT OBSOLETE
22137	POTASSIUM PERSU	POTASSIUM PERSULPHATE				IENTIFIC AUSTRALIA	PTY LTD ((03) 97	57 4559/ (02) 8014 4	1558)
	Yes	DG 5.1	UN 1492	PG III	1Z	Approved - No Restrictions	Yes	-	06-Jul-2020
41	ROUNDUP BIACTIVE	HERBICIDE			BAYER CROPSCIENC	CE PTY LTD (1800 03	3 111 (IXOM Opera	ations))	
	Yes	No	-	-	-	Approved - with Restrictions	Yes	-	01-Oct-2021
785	SEPTONE CITRA SCRUB				ITW AAMTECH AUST	RALIA (1800 039 008)			•
	Yes	No	-	-	-	None	Yes	-	01-Nov-2019
22304	SODIUM SULFITE	· ·	HACH PACIFIC (13 11 26)						
	Yes	No	-	-	-	None	Yes	-	17-Aug-2018
22179	SODIUM SULPHITE	ANHYDROUS			THERMO FISHER SCIENTIFIC AUSTRALIA PTY LTD ((03) 9757 4559/ (02) 8014 4558)				
	Yes	No	-	-	-	Approved - No Restrictions	Yes	-	04-Jul-2020
1374	TN (TOTAL NITROGE	EN) HYDROXIDE REAGENT			HACH PACIFIC (13 11 26)				
	Yes	DG 8	UN 1760	PG II	2X	Approved - No Restrictions	Yes	-	13-Aug-2019
301	TOMCAT RAT & MOU	JSE BAIT			BARMAC, A DIVISION OF AMGROW PTY LTD (13 11 26)				
	Yes	No	-	-	-	Approved - with Restrictions	Yes	-	31-Mar-2020
252	UNLEADED PETROL				AMPOL AUSTRALIA F	PETROLEUM PTY LTI	O (FORMERLY CA	LTEX AUSTRALIA)	(1800 033 111)
	Yes	DG 3	UN 1203	PG II	3YE	Approved - with Restrictions	Yes	-	26-Mar-2019
128	USE ALL	· ·			TRUE BLUE CHEMICALS (13 11 26)				
	Yes	No	-	-	-	Approved - with Restrictions	Yes	-	22-Apr-2021
22140	VARIO AMMONIA CY	ANURATE			THERMO FISHER SCIENTIFIC AUSTRALIA PTY LTD ((03) 9757 4559/ (02) 8014 4558)				1558)
	Yes	DG 8	UN 2680	PG II	2X	Approved - No Restrictions	Yes	-	SDS DISCONTINUED



# Stock Register

(Location Name: BALLINA SHIRE COUNCIL/ WATER & WASTEWATER STP'S/ WARDELL STP , Child Locations Included)

(Sort By: Colour Rating, Filter By: None)

Charalt	Product Name				Supplier (Emergency Contact)						
Stock Number	Hazardous	Dangerous Good	UN number	Packing Group	Hazchem Code	Status	In Stock Inventory	Risk Assessment	SDS Date		
22273	VARIO PHOSPHATE	RGT			THERMO FISHER SCIENTIFIC AUSTRALIA PTY LTD ((03) 9757 4559/ (02) 8014 4558)						
	Yes	DG 6.1 / 8	UN 3290	PG II	2X	Approved - No Restrictions	Yes	-	04-Jul-2020		
22280	VARIO POTASSIUM	PERSULFATE F 10		-	THERMO FISHER SC	IENTIFIC AUSTRALIA	A PTY LTD ((03) 97	57 4559/ (02) 8014 4	1558)		
	Yes	DG 5.1	UN 3215	PG III	1Z	None	Yes	-	04-Jul-2020		
22138	VARIO TOTAL N PER	RSULFATE RGT			THERMO FISHER SC	IENTIFIC AUSTRALIA	A PTY LTD ((03) 97	57 4559/ (02) 8014 4	1558)		
	Yes	DG 5.1	UN 3215	PG III	1Z	Approved - No Restrictions	Yes	-	04-Jul-2020		
22145	VARIO TOTAL NITRO	GEN HYDROXIDE LR VIAL		·	THERMO FISHER SC	IENTIFIC AUSTRALIA	A PTY LTD ((03) 97	57 4559/ (02) 8014 4	1558)		
	Yes	DG 8	UN 1824	PG III	2R	Approved - No Restrictions	Yes	-	04-Jul-2020		
112	WATTYL KILLRUST (	GLOSS EPOXY ENAMEL LE	AD FREE (PRE NOV	EMBER 2019)	VALSPAR PAINT (AUSTRALIA) PTY LTD ((02) 9037 2994)						
	Yes	DG 3	UN 1263	PG III	•3Y	Approved - with Restrictions	Yes	-	PRODUCT OBSOLETE		
134	WATTYL SOLAGARE	LOW SHEEN WHITE BASE		·	VALSPAR PAINT (AUSTRALIA) PTY LTD ((02) 9037 2994)						
	Yes	No	-	-	-	Approved - with Restrictions	Yes	-	31-Oct-2020		
80	SEPTONE RUSTSOL	VE		÷	ITW AAMTECH AUSTRALIA (1800 039 008)						
	Yes	DG 8	UN 1805	PG III	2R	Approved - with Restrictions	Yes	-	PRODUCT OBSOLETE		
1373	SODIUM HYDROXID	E SOLUTION, 1.54N			HACH PACIFIC (13 11 26)						
	Yes	DG 8	UN 1824	PG II	2R	Approved - with Restrictions	Yes	-	29-Jul-2019		
22147	VARIO NITRAX REAC CHROMOTROPIC	GENT TUBE A/ NITRATE RE	AGENT B VARIO NIT	RATE	THERMO FISHER SCIENTIFIC AUSTRALIA PTY LTD ((03) 9757 4559/ (02) 8014 4558)						
	Yes	DG 8	UN 1830	PG II	2P	Approved - No Restrictions	Yes	-	SDS DISCONTINUED		
22146	VARIO TOTAL NITRO	GEN ACID LR/HR VIAL			THERMO FISHER SCIENTIFIC AUSTRALIA PTY LTD ((03) 9757 4559/ (02) 8014 4558)						
	Yes	DG 8	UN 1830	PG II	2P	Approved - No Restrictions	Yes	-	04-Jul-2020		

### **Appendix 4 – Personal Protective Equipment**

This section list the standard PPE items required.

### 7.1.1 Wastewater Treatment Plant

The following items are to be kept at the Wardell WWTP:

- Ear/hearing protection
- Gas monitor
- Gas calibration equipment
- Life rings (around the treatment system)
- Sun screen
- Apron/disposal overalls
- Rubber Gloves
- Goggles
- Gumboots
- Steel capped Boots

### 7.1.2 Sewerage reticulation response truck

The following items are to be kept on the sewerage reticulation response truck:

- Asbestos kit
- Goggles/eye protection
- Hearing protection
- Apron/disposable overalls
- Rubber gloves
- Gumboots

### Appendix 5 – Risk Assessment and Actions

### Methodology

- 1. Determine Consequence and Likelihood Definitions
- 2. Determine Risk Definitions
- 3. Determine Inherent Risk. Inherent risk is based on the hazardous containments that may be present
- 4. Devise Hazardous Events.
- 5. For each hazardous event, determine possible causes, raw risk characteristics, existing control measures, residual risk characteristics and any further improvements required.

Items 3 to 5 are in the attached spreadsheet.

### Consequence and Likelihood Definitions

	Rare	Only ever occurs under exceptional circumstances									
	Unlikely	Conceivable but not likely to occur under normal operations; no evidence of previous incidents									
Likelihood	Possible	Not generally expected to occur but may under specific circumstances									
	Likely	Will probably occur at some stag	ge based on evidence of previous								
	Almost Certain	Event expected to occur most times	during normal operations								
Hazard Type		Health & Safety	Environmental								
	Insignificant	First aid only required	Minor impact to environmenta amenity < \$1,000 to rehabilitate								
	Minor	Minor medical treatment with or without potential for lost time	Damage to environmental amenity \$1,000 - \$10,000 to rehabilitate								
	Moderate	Significant injury involving medical treatment or hospitalisation and lost time	Short term impact to ecosystem function Damage to environmental amenity \$10,000 - \$50,000 to rehabilitate								
Consequence	Major	Individual fatality or serious long term injury	Long term impact to ecosystem function Damage to environmental amenity \$50,000 - \$100,000 to rehabilitate								
	Catastrophic	Multiple fatalities or extensive long term injury	Damage to unique habitat or threatened species irreparable impact to ecosystem function wide spread damage to environmental amenity >\$100,000 to rehabilitate								

### **Risk Definitions**

	CONSEQUENC	E			
LIKELIHOOD	Insignificant	Minor	Moderate	Major	Catastrophic
Almost Certain	Medium	High	High	Extreme	Extreme
Likely	Medium	Medium	High	High	Extreme
Possible	Low	Medium	High	High	High
Unlikely	Low	Low	Medium	Medium	High
Rare	Low	Low	Medium	Medium	High

The risk assessment is generic for all sites, reference to site plans should be made to see where risks apply.

# Pollution Incident Response Management Plan Risk Assessment

INHERENT RISK

			Health Impact with Acute	Environmental Impact with
Hazard	Source	Quantity	Exposure	acute exposure
Raw Wastewater				
Pathogens (virus' / bacteria / etc)	Sewage, Trade Waste	High	Death	High
Nutrients (N, P)	Sewage, Trade Waste	High	Low	Medium
H2S	Sewage, Trade Waste	Potentially High	Death	Low
Radioactive substances	Trade Waste	Low	Death	Medium
Acid	Trade Waste	Low	Serious Injury	Medium
Metals	Trade Waste	Low	Low	Low
Oil & Grease	Trade Waste	Medium	Low	Medium
Chemicals				
Calcium Nitrate	Odour Control Dosing Unit	Low	Minor Injury	?
Refer to MSDS for Complete List	Chemical storage	Medium	Injury / Illness	?

									Residual				
No	Hazardous Event	Limiting Hazard	Weath er	Cause	Raw Consequence	Raw Likelihood	Raw Risk	Control Measures	Consequen ce	Residual Likelihood	Residual Risk	Improvements Required?	Comment
			Dry	Damage, blockage, pump failure, rising main break, pump truck spill, power failure	Moderate	Likely	High	Reticulation Maintenance, lightning potection, standby generators, telemetry monitoring and alarms, duty-standby pump arrangement, signage, communications, Spill Procedures	Moderate	Rare	Medium	Pump Improvement (PRP100)	
		Pathogens (virus' /	Rain	Damage, blockage, pump failure, rising main break, pump truck spill, power failure, excessive inflow and infiltration, inadequate pump capacity	Moderate	Likely	High	as above, inflow and infiltration investigate and reticification works	Moderate	Rare	Medium	Pump Improvement (PRP100)	
1	Sewage Spill onto land	bactería / etc)	Flood	Inundation	Minor	Likely	Medium	switchboards contructed above flood levels, communications	Minor	Rare	Low		
			Dry	Damage, blockage, pump failure, rising main break, pump truck spill, power failure	Moderate	Likely	High	Reticulation Maintenance, lightning potection, standby generators, telemetry monitoring and alarms, duty-standby pump arrangement, signage, communications, Spill Procedures	Moderate	Rare	Medium	Pump Improvement (PRP100)	
	Sewage Spill into	Pathogens (virus' /	Rain	Damage, blockage, pump failure, rising main break, pump truck spill, power failure, excessive inflow and infiltration, inadequate pump capacity	Moderate	Likely	High	as above, inflow and infiltration investigate and reticification works	Moderate	Rare	Medium	Pump Improvement (PRP100)	
2	environmental waterway	bacteria / etc)	Flood	Inundation	Minor	Likely	Medium	switchboards contructed above flood levels, communications	Minor	Rare	Low		
			Dry	Damage, blockage, pump failure, rising main break, pump truck spill, power failure	Catastrophic	Likely	Extreme	Reticulation Maintenance, lightning potection, standby generators, telemetry monitoring and alarms, duty-standby pump arrangement, signage, communications, Spill Procedures	Catastrophi c	Rare	High	Pump Improvement (PRP100)	
		Pathogens (virus' /	Rain	Damage, blockage, pump failure, rising main break, pump truck spill, power failure, excessive inflow and infiltration, inadequate pump capacity	Major	Likely	High	as above, inflow and infiltration investigate and reticification works	Major	Rare	Medium	Pump Improvement (PRP100)	
3	Sewage Spill into recreational water		Flood	Inundation	Moderate	Likely	High	switchboards contructed above flood levels, communications	Moderate	Rare	Medium		
			Dry	Damage, blockage, pump failure, rising main break, pump truck spill, power failure	Catastrophic	Likely	Extreme	Reticulation Maintenance, lightning potection, standby generators, telemetry monitoring and alarms, duty-standby		Rare	High	Pump Improvement (PRP100)	
	Sowago Spillinte	Pathogens (virus' /	Rain	Damage, blockage, pump failure, rising main break, pump truck spill, power failure, excessive inflow and infiltration, inadequate pump capacity	Catastrophic	Likely	Extreme	as above, inflow and infiltration investigate and reticification works switchboards contructed above flood	Catastrophi c	Rare	High	Pump Improvement (PRP100)	
4	Sewage Spill into oyster lease area		Flood	Inundation	Major	Likely	High	levels, communications	Major	Rare	Medium		
			Dry	Damage, blockage, pump failure, rising main break, pump truck spill, power failure	Major	Likely	High	Reticulation Maintenance, lightning potection, standby generators, telemetry monitoring and alarms, duty-standby pump arrangement, signage, communications, Spill Procedures	Major	Rare	Medium	Pump Improvement (PRP100)	

### **RETICULATION RISK**

		Limiting	Weath		Raw	Raw			Residual Consequen	Residual		Improvements	
No	Hazardous Event	Hazard	er	Cause	Consequence	Likelihood	Raw Risk	Control Measures	се	Likelihood	Residual Risk	Required?	Comment
	Sewage Spill into drinking / stock	Pathogens (virus' /	Rain	Damage, blockage, pump failure, rising main break, pump truck spill, power failure, excessive inflow and infiltration, inadequate pump capacity	Major	Likely	High	as above, inflow and infiltration investigate and reticification works	Major	Rare	Medium	Pump Improvement (PRP100)	
5	water catchment (private or public)		Flood	Inundation	Moderate	Likely	High	switchboards contructed above flood levels, communications	Moderate	Rare	Medium		
			Dry	Damage, blockage, pump failure, rising main break, jetting, power failure	Major	Likely	High	Reticulation Maintenance, lightning potection, standby generators, telemetry monitoring and alarms, duty-standby pump arrangement, signage, communications, Spill Procedures	Major	Rare	Medium	Pump Improvement (PRP100)	
	private property /	Pathogens (virus' /	Rain	Damage, blockage, pump failure, rising main break, jetting, power failure, excessive inflow and infiltration, inadequate pump capacity	Major	Likely	High	as above, inflow and infiltration investigate and reticification works	Major	Rare	Medium	Pump Improvement (PRP100)	
6		bacteria / etc)	Flood	Inundation	Major	Likely	High	switchboards contructed above flood levels, communications	Major	Rare	Medium		
7		Calcium Nitrate	Any	rupture in tank, failure in valves, PLC etc	Minor	Likely	Medium	Maintenance, telemetry alarms	Minor	Rare	Low	Chemical Spill response procedure	

### **RETICULATION RISK**

No	Hazardous Event	Limiting Hazard	Weath er	Cause	Raw Consequence	Raw Likelihood	Raw Risk	Control Measures	Residual Consequen ce	Residual Likelihood	Residual Risk	Improvements Required?	Comment
			Dry	Blockage, mechanical, electrical & control failure	Moderate	Likely	High	Maintenance, lightning potection, SCADA / telemetry monitoring and alarms, limiting inflow pump capacities	Moderate	Rare	Medium		
			Rain	Blockage, mechanical, electrical & control failure, excessive inflow	Moderate	Likely	High	as above, inflow and infiltration investigate and reticification works	Moderate	Rare	Medium		
1	Overflow of Raw Sewage	bacteria /	Flood	Inundation	Minor	Likely	Medium	as above, turn pumps off	Minor	Rare	Low		
			Dry	mechanical, electrical & control failure	Moderate	Likely	High	Maintenance, plant inspections, SCADA / telemetry monitoring and alarms, routine testing	Moderate	Rare	Medium	Water Quality Database that processes laboratory data and notifies response officers	
	Discharge of Partially	Pathogens (virus' /	Rain	Blockage, mechanical, electrical & control failure, excessive inflow	Minor	Likely	Medium	storm detention, wet weather bypass	Minor	Rare	Low	Water Quality Database that processes laboratory data and notifies response officers	
2		bacteria / etc)	Flood	Inundation	Minor	Likely	Medium	as above	Minor	Rare	Low		
3	Chemical Spill on Site	Chemicals (acid, alkaline)	Any	Blockage, mechanical, electrical & control failure, incorrect hookup up to truck	Minor	Likely	Medium	Maintenance, lightning potection, SCADA / telemetry monitoring and alarms, bunding	Minor	Rare	Low	Chemical Spill response procedure	
4	-	Chemicals (acid, alkaline)	Any	accident, mechanical failure	Minor	Likely	Medium	bunding, supervision, induction, procedures, competant delivery drivers, road rules	Minor	Rare	Low	Chemical Spill response procedure	

### TREATMENT RISK

### Appendix 6 – Action Plans to Minimise Harm

To address the risk of sewer overflows, Ballina Shire Council has a number of management actions comprising of one or more of the following:

- Continuous Improvement of Sewerage System Operations
  - Dedicated Reticulation Operations Engineer
  - Pump Replacement Program
  - Improved Programmed Maintenance System
  - Improved staff training matrix and resourcing
- Chemical Spill Response Procedure

#### **Pollution Incident Notification and Investigation Flow Chart**

#### Updated 6 December 2021

This notification and investigation flow chart has been prepared from Ballina Shire Councils Pollution Incident Response Management Plan (PIRMP). Reporting of spill incidents shall be done in accordance with this approved management plan.

OLE & RESPONSIBILITIES			CONTACT NUMBERS	
ON-CALL OPERATOR	TEAM LEADER - (G.Meredith 0415 788 494)		Compulsary Contact List	Relevant Contact List
Attend Incident	Immediate risk to Human health & safety?		EPA Environment Line	Affected Neighbours
	Yes	No	Notify & record incident number	
Initial Investigation			131 555	
- Cause	Notify WHS Officer (P.Brunt 0400 906 862)			
<ul> <li>Extent (visually &amp; using PIRMP maps)</li> </ul>			NSW Health	
<ul> <li>Effect (to Humans and Ecosystem)</li> </ul>	Notify Manager of Water, Wastewater & Waste		Notify	NSW Shellfish Richmond River Coordinator
	(T.Mackney 0408 563 584)		1300 066 055 / (AH) 0428 882 805	lan Cardow 0438 237 359 - untill 30.08.2014 Geoff lawle 02 6686 3394 - after 01.09.2014
Is there immediate risk to Human health & safety?				
- If 'yes', Notify Emergency Services (000) &	Actual / Potential risk to Humans or Ecosystem health & safety?		Safe Work	Oyster Farmers
implement Emergency Response Procedure	Yes / Non-Trivial	No / Trivial	Notify	Ray Hunt - North Creek - 0414 884 274
No.16 The second s	No. 15 Provide Automatica		131 050	Geoff Lawler - North Creek - 6686 7163/6686 3394
Notify Team Leader	Notify Compulsary Authorities (see Compulsary Contact List)	Notify Operational Engineer Gabrielle Denniss 0428 197 329	BSC Environmental Health Officer	Ian Cardow - Serpentine - 0438 237 359/6686 3270
- Initial Investigation	(see compulsary contact List)	Gabrielle Denniss 0428 197 329	Notify	Cape Byron Marine Park Authority
- Risk to Humans / Ecosystem Health & Safety	Notific Octor Defenses Andre Stree		,	
	Notify Only Relevant Authorities		6686 4444 / (AH) 6626 6954 (K. Watts 0414 192 311)	6620 9300
Contain, Clean & Disinfect Affected Area	Determine relevance based off incident & PIRMP maps			
- Using SWMS & PPE	(see Relevant Contact List)		Fire & Rescue	Fisheries
C C	· ·		Notify & advise not to attend	1800 043 536
Organise testing of Affected Area	Issue Community Notification		1300 729 579	
- Contact Sampling officer (R.Jenner 0416 209 738)	- Determine if necessary based on incident			Life Guards
- Ensure background levels reached	- Determine appropriate method based on incident		BSC Operations Engineer	0432 217 500
	- Provide regular notification untill rectified		Notify	
Complete Pollution Incident Reporting Sheet			Gabrielle Deniss 0428 197 329	Aboriginal Land Council
- Complete Part A of Sheet	Complete Pollution Incident Reporting Sheet			6686 7055
- Return to Team Leader	- Complete Part B of Sheet		NSW Shellfish Program Manager	
	- Save in TRIM under container 545		9741 4749 / (AH) 0407 078 269	Police
			nswsp@foodauthority.nsw.gov.au	6681 8699
	Complete the EPA Pollution Incident Report			
	- Follow Pollution Incident Report Template			Rous Water
	- Provide to EPA within 7 days of incident			6621 8055 / (AH) 6626 6955
	(ian.greenbank@environment.nsw.gov.au)			
	- Save in TRIM under container 545			Office of Water
				6627 0100
	Did Damage occur to private property?			11
	Yes	No	-[]	Licenced Water Extractors (see PIRMP map for location & numbers)
	Notify BSC Risk & HR Department			(see Pirtuir map for location & numbers)
	- Report to HR (6686 1202) (H.Joblin 0429 294 124)			
	- Report to Fix (6686 1202) (H.Jobini 0429 294 124)			
	16001 10 NISK & TIK (0000 1430)			
			]	
Roles: If the Team Leader (G Meredith 0428 811 277) is un	able to be contacted, reporting should be done to the Operations Engineer (G Der	niss 0428 197 329) or the Manager of Water ar	nd Legend:	Immediately
Wastewater (B Walker 0474 009 041).		-		
				As soon as practical