Pollution Incident
Response Management Plan
for
Nimmitabel Wastewater Scheme

Pollution Incident Response Management Plan

Nimmitabel

(This Plan should be read in conjunction with the SMRC Water & Wastewater Emergency Response and Crises Management Plan, and the SMRC Water & Wastewater Business Continuity Management Strategy Plan)

Background

On the 29th February 2012 an amendment to the Protection of the Environment Operations Act 1997 introduced a requirement for all licensees to prepare and implement a Pollution Incident Response Management Plan (PIRMP) for each of its licensed activities in accordance with the requirements set out in Part 5.7A of the PEOA Act 1997. The amendment included the provision that licensees may link individual PIRMP to their existing Emergency Response Plans (Container SC502).

Definition of a 'pollution incident';

For the purpose of this response plan a pollution incident is a serious leak or spill of wastewater from the Nimmitabel Wastewater System to the environment and where it results in actual or potential loss, or property damage of an amount, or amounts in aggregate exceeding $10,000.
(See definition in the POEO Act Section 147)

License Holder

Snowy Monaro Regional Council under the regulation of The Environment Protection Authority (EPA), NSW is the holder of License Number 6368 for Cooma and 1392 for Nimmitabel wastewater systems.

SMRC intends that this PIRMP's must be read in conjunction with the:

Snowy Monaro Regional Council, Water & Wastewater Emergency Response and Crisis Management Plan, Jan 2012;

Snowy Monaro Regional Council, Water & Wastewater, Business Continuity Management Strategy Plan, Jan 2012;

Snowy Monaro Regional Council, Risk Assessment for Water Supply & Wastewater Workshop Report, Feb 2011; and

Snowy Monaro Regional Council, PRP 100 Wastewater Overflow Investigations Report for the Nimmitabel Wastewater System. *(EP License no1392)*

The Nimmitabel wastewater system is made up of the following major assets:

a) Wastewater Treatment Facilities – section 1.

b) Pumping Stations – sections 2 to 3.

c) Drainage systems – section 4.

Individual PIRMP's have been developed to address the specific hazards, risks and response required for each major asset of the scheme.

Pollution Incident Response Management Plan

forNimmitabel Wastewater Scheme

SNOWY MONARO REGIONAL COUNCIL

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Section 1 – Nimmitabel Wastewater Treatment Facility

Snowy Monaro Regional Council 81 Commissioner Street Cooma NSW 2630 Licensed Site Location (License No 1392) Nimmitabel Wastewater Treatment Facility Clarke Street Nimmitabel NSW 2631	NGR: 704,096m 5,956,954m Map References: 149°16'45" Longitude 36°30'30" Latitude South

Overview of the Activities on site:

- Nimmitabel Wastewater Treatment Facility collects and treats wastewater from the township of Nimmitabel to standards required by the EPA and NSW Department Primary Industries (DPI) Water for the discharge of treated effluent, under licence, to Bobundara Creek.

A failure of Nimmitabel Wastewater Treatment Facility has the potential to cause major environmental harm, to impact on Bobundara Creek water course but with insignificant public health consequences. Whilst the facility has physical containment and pollution control measures in place that will minimise the risk of a pollution incident occurring, it is recognised that there are residual risks of spillage / discharge to Bobundara Creek that could have major environmental consequences.

Operating Hours:

Nimmitabel Wastewater Treatment Facility operates intermittently on demand 24 hours per day, 7 days per week. The operating system is fully automated utilising Programmable Logic Controllers (PLC's) and radio SCADA (telemetry) systems for monitoring and emergency response.

The facility is staffed 5 days a week from 6.00am to 3.00 pm and inspected on weekends and public holidays when laboratory tests of effluent are completed by trained treatment plant operators.

Description of surrounding area:

Nimmitabel Wastewater Treatment Facility is located on a Council land in Clarke Street, 450 metres west of Nimmitabel town centre. The environment surrounding the Facility to the south and west is predominately rural with Nimmitabel residential development to the east. The closest housing is within 60 meters to the east of the Facility.

Bobundara Creek borders Nimmitabel Wastewater Treatment Facility for 100 metres on its southern boundary and at a distance of 40 meters from the facilities security fence.

Likelihood of a pollution incident occurring:

(*The combination of design, construction, contingency planning and long-term maintenance for this facility should result in a system where overflows occur only in exceptional circumstances).). e.g. A catastrophic electrical or equipment failure / an earthquake damaging wastewater structures or underground pipelines.*

- **Rare but with Major Environmental Consequences.**
  Refer to the Snowy Monaro Regional Council, Risk Assessment for Water Supply & Wastewater Workshop Report, Feb 2011.(appendix 'C' p1)

Hazards to Human Health & the Environment at this site as a Result of a Failure of the Wastewater Treatment Facility and Discharge of Wastewater to the Environment:

Risk assessments of the facility have concluded that in the event of a discharge or spillage of wastewater to the environment there would be **insignificant consequences to public and operational staff health but could have major environmental consequences.**

Hazard	Risk Rating Estimates		Contributing / Condition or Event	Action
	Likelihood	Consequence to the environment		
Untreated or raw wastewater discharged to Bobundara Creek.	Rare	Major	Major failure of the electrical energy or electricity supply or associated cables and associated equipment	Activate emergency power procedure. Activate spill clean-up procedure.
Untreated or raw wastewater discharged to Bobundara Creek.	Rare	Major	Major failure of equipment due to mechanical problems.	Activate replacement pump procedure. Activate spill clean-up procedure.
Untreated or raw wastewater discharged to Bobundara Creek.	Rare	Major	Major structural failure. Damaged wastewater structures or underground pipelines.	Activate drainage system isolation procedure. Activate spill clean-up procedure.

Pollution Prevention / Mitigation Measures:

Nimmitabel Wastewater Treatment facility has the following pollution prevention/mitigation measures incorporated into the facility design to minimise the risk of wastewater being spilled / discharged into Bobundara Creek;

- Nimmitabel Wastewater treatment facility electricity is supplied from Substation 11-126 on Powis St with backup from Substation 11-122 on Clarke St Nimmitabel.
- A standby generator can be connected to the pump stations if a long duration electricity outage has been advised by Essential Energy. Permanent generator connection terminals have been constructed for both of the pumping stations.
- Nimmitabel wastewater treatment Facility has the capacity to hold in the order of 24 hours of average dry weather flow ADWF before surcharging from the decanted effluent via the treated effluent outfall to Bobundara Creek.

Emergency & early warning systems:

Nimmitabel Wastewater Treatment Facility has a number of separate process alarms linked to a 24 hour alarm system that notifies SMRC staff in the event of a system failure. In the event of a failure the telemetry system will keep attempting to make contact until such time as the call is answered.

The response time by SMRC staff in the event of a failure is less than one (1) hour.

Chemical Product Inventory & Material Handling Sheets (Hazardous)

Trade Name Substance	Solid/liquid/gas/powder	Maximum volume of storage	Location (marked on site plan)	Type of Containment
Aluminium Sulphate	Liquid	30,000 litres Tank only filled to 10,000 litres	Chemical Storage	Concrete bunded area with a valved pipeline link to to the Pasveer Channel. In the event of the concrete bund being compromised a gate valve can be opened and the Aluminium Sulphate drained to the Pasveer Channel for subsequent reprocessing.

Safety Equipment and Personal Protective Equipment		
Equipment	**Location**	**Personnel Trained / Certified in use if equipment**
3 Sets of Breathing Apparatus 1 Spare BA Cylinders.	The Glen WWTF. Blue cabinet on south wall of the laboratory.	Water & Wastewater Supervisor – 0419 256 323 WTF Technician - 0409 669 576 Nimmitabel Treatment Works Operator- 0427 406 668
Confined spaces access equipment Harnesses, lanyards, lifelines, portable Davit, lifting tripod etc,	The Glen WWTF. Electrical room Workshop	Water & Wastewater Supervisor – 0419 256 323 WTF Technician - 0409 669 576 Nimmitabel Treatment Works Operator- 0427 406 668
Harnesses, lanyards, life jackets, gas monitor - none	Nimmitabel WWTF Gas monitor – Glen WWTF	Water & Wastewater Supervisor – 0419 256 323 WTF Technician - 0409 669 576 Nimmitabel Treatment Works Operator- 0427 406 668

Pollution Prevention Equipment Inventory / (On site and Off Site Resources)			
Type	**Amount**	**Equipment Location**	**Contact**
Spill Sock	100 meters	The Glen Workshop	Water & Wastewater Supervisor – 0419 256 323
Sewer cleaning equipment	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323

Waste water pumps	4	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Pressure washers	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Duel Control Sweeper	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Various tipper trucks	7	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Tractor drawn road broom	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Backhoe loader	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Volvo loaders	2	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Tractors	3	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Portable generators (towable)	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323

Emergency Power/Diesel Generator Hire		
Company Name	**Generators Available**	**Contact details**
Aggreko Generator Rentals	Sydney - up to 1250kVa	1800 808 109
Atlas Copco Sydney	Sydney – up to 1000kVa	13 34 20
Genlec Power Systems	Queanbeyan depot – up to 1000kVa	0416 314 010
SGH Southern Generators & Electrical	Queanbeyan – up to 1400kVa	1300 350 706

Genplus Hire & Sales	Queanbeyan – up to 1250kVa single unit, up to 20,000kVa combination	02 6297 2641 0412 663 566
Coates Hire	Fyshwick – up to 200kVa but can source larger items	02 6452 5460

SMRC staff responsible for the PIRMP

Position	Phone number	Responsibilities
Director Operations & Infrastructure	0427 018 846	Authorisation & activation of the PIRMP.
Manager Water & Wastewater	0409 440 733	Liaison with EPA NSW. Notification of other relevant authorities listed in this plan. Management of a Pollution Incident Response.
Water & Wastewater Technical Officer	0409 627 026	Management of a Pollution Incident Response.
Water & Wastewater Supervisor	0419 256 323	Management of a Pollution Incident Response.
Water & Wastewater Operator	0427 406 668	Management of a Pollution Incident Response.

Procedures to be followed by SMRC (the license holder) in notifying a pollution incident:

The procedures to be followed by SMRC in the event of a pollution incident are set out in the SMRC Water & Wastewater, Emergency Response & Crisis Management Plan, (ER&CMP) which includes the following EPA requirements,

Immediate notification of relevant authorities by the ER&CMP authorised officer – Manager Water & Wastewater:

1. (i) Call 000, 'notify only' Fire and Rescue, no immediate threat to life or serious threat to property. **NO EMERGENCY RESPONSE REQUIRED**

   (ii) Call 000 if the incident presents an immediate threat to human health or property. **EMERGENCY RESPONSE REQUIRED**

(Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are the first responders, responsible for controlling and containing incidents).

2. The Environment Protection Authority (EPA), NSW – Environment Line on 13 15 55
3. NSW Health – Emergency Number 0418 464 916
4. WorkCover 13 10 50

Communications:

Persons through whom all communications are to be made and procedures to be followed for co-ordinating with the authorities and other persons that have been notified, including 'Property owners downstream on Bobundara Creek and unnamed non-perennial water course' and 'External Organisations' are set out in SECTION 7, COMMUNICATIONS MANAGEMENT TEAM of the SMRC (ER&CMP).

Training:

An annual desk top training exercise will be conducted with the staff responsible for the management and operation of the PIRMP. The support contractors / clean-up companies listed in the PIRMP will be invited to participate in the desk top exercise. A record of the exercise including the names of participants and issues raised will be maintained for each exercise and used to initiate improvements in the PIRMP.

An annual field training exercise will be conducted with the staff responsible for the management and operation of the PIRMP including the use of a range of equipment that could be required in a real event. A record of the exercise including the names of participants and issues raised will be maintained for each exercise and used to initiate improvements in the PIRMP.
The training exercise record can be found in SMRC's record management system. Container CS502 – POLLUTION INCIDENCE RESPONSE MANAGEMENT.

Action Plan – in response to possible or actual effluent overflow from Nimmitabel Wastewater Treatment Facility

SMRC Responsibility	Actions	Notes and Contact Details
Council staff receiving report	Report from the Public, Council staff or telemetry system - Obtain details of spill & location - Obtain contact details of person reporting the spill	Report details of the spill to Wastewater Operator on call 0427 406 668

Wastewater Operator on Call	Notify Water & Wastewater Supervisor	Report details of the spill to Water & Wastewater Supervisor 0419 256 323
Water & Wastewater Supervisor	Carry out Site Specific Risk Assessment and Toolbox Meeting to identify; - Assess incident. / take photographs to document the overflow / spill - Determine the cause of the failure / spill Electrical failure Mechanical Failure Blockage Structural Failure - Estimate of time to return the Nimmitabel Wastewater Treatment facility to full service. - Possible environmental concerns e.g. effluent overflows to the environment. - Extent of work to be carried out and if any hazards exist e.g. phone/power cables, gas &/or water, storm water drains etc. - If additional resources/materials are required e.g. personnel, suitable barricades, sandbags, sludge pump, vacuum truck etc. - Conduct Work Health Safety (WHS) risk assessment. - Personal Protective Equipment & Clothing (PPEC). - Manual handling issues. - Traffic control methods/issues (where necessary). - Note prevailing weather conditions and obtain a 5 day forecast. - Complete or have completed appropriate forms e.g. Confined Space Entry Permit, Traffic Control Plan (TCP), Safe Work Method Statement (WMS) and Environmental Control Plan.	Site Specific Risk Assessment 250.2017.414.1 Record of Toolbox Meeting 250.2017.334.1
SMRC Responsibility	**Actions**	**Notes and Contact Details**
Water & Wastewater Supervisor	- Carry out site induction and/or toolbox meeting for all workers involved with the incident on the site (both council employees and contractors) so everyone is aware of their responsibilities and what work is to be carried out.	

Water & Wastewater Supervisor	Notify the Manager Water & Wastewater that the system failure / spill could have major environmental consequences. - Provide an estimate of time to return Nimmitabel Wastewater Treatment facility to full service. (Nimmitabel No1 and No2 wastewater Pumping Stations have 8.5 & 2.6 hours ADWF storage capacity if required). - Confirm minor incident that can be managed by SMRC staff and / or local contractors. - Confirm major incident requiring the services of an accredited emergency pollution incident management company.	Contact Manager Water & Wastewater 0409 440 733
Manager Water & Wastewater	In the event of a **major incident** notify Director Operations & Infrastructure who will authorise and activate the PIRMP - Notify The Environment Protection Authority (EPA), NSW - Commence SMRC Water & Wastewater Emergency Response and Crises Management Plan, and the SMRC Water & Wastewater Business Continuity Management Strategy Plan. - If required, contact an accredited emergency pollution incident management company. e.g. Transpacific Industries Group (Canberra & Bega).	Director Operations & Infrastructure 0427 018 846 EPA 13 15 55 24 hour emergency spills response 1800 774 557
Water & Wastewater Supervisor	- Implement traffic control plan and pedestrian management plan at the Nimmitabel Wastewater Treatment Facility. - Implement environmental controls by placing absorption /containment barriers, sandbags between the pumping station site and Bobundara Creek. - Implement Bobundara Creek water sampling and testing plan.	

SMRC Responsibility	Actions	Notes and Contact Details
Water & Wastewater Supervisor / Manager Water & Wastewater	**General Procedure** **Minor Incident** - Engage a local contractor from the list of clean up companies if required and commence pollution prevention / mitigation measures as required. Continue the process until such times as the surcharge ceases and /or the failure is corrected. Then commence clean-up, disinfection and incident reporting procedures. **Major incident** - In the event that local resources are unable to contain and manage the spill maintain all reasonable attempts to prevent wastewater from entering Bobundara Creek. Continue with spill containment and clean up measures until such time as an external resource with the capacity to manage a major pollution incident is engaged and arrives on site. - If necessary engage external resources to project manage and implement the emergency response, waste removal and remediation works until such time as the surcharge ceases and or the failure is corrected including clean-up, disinfection and incident reporting procedures. **Minor & Major incident** - At the completion of the clean-up and remediation works undertake a site inspection to confirm that the site has been successfully decontaminated. - Remove all temporary works and traffic control signs. - Undertake a debriefing with all staff and contractors and provide Council with an incident report for approval and forwarding to the EPA as required.	

Nimmitabel Wastewater Treatment Facility - Emergency Procedures

BUILDING	**NIMMITABEL WASTEWATER TREATMENT FACILITY**	**EVACUATION ROUTE**	**DEPENDANT ON EMERGENCY**
FLOOR	**GROUND LEVEL**	**ASSEMBLY POINT**	**MAIN ENTRANCE GATE**
WARDEN	**OPERATOR ON DUTY**	**LOCATION OF EVACUATION MAP**	**MAIN OFFICE**
FIRST AID PERSONNEL	**OPERATOR ON DUTY**	**COMMUNICATION CONTROL POINT**	**MAIN ENTRANCE GATE**
HOURS OF OCCUPANCY	**N/A**	**AFTER HOURS OCCUPANCY**	**OPERATOR ON CALL**

SPECIFIC HAZARDS	**N/A**	**SPECIFIC CONTROLS**	**N/A**
AFTER HOURS HAZARDS	**N/A**	**CONTROL MEASURES**	**N/A**
EMERGENCY VEHICLES AREAS	**MAIN ENTRANCE GATE**		
POSSIBLE THREATS/TYPE OF EMERGENCIES	**WASTEWATER SPILL, ELECTRICAL FAILURE, MECHANICAL FAILURE, STRUCTURAL FAILURE/COLLAPSE, BUSH FIRE, FLOOD, BOMB THREAT**		

EVACUATION PROCEDURE	▪ Staff/Contractors or visitors become aware that there is an emergency, could be:- Wastewater spill Smoke Flooding Bomb Threat The emergency could be reported by staff, contractors or visitor. ▪ If evacuation is to take place, the Water & Wastewater Supervisor or Operator on-call for the pumping station is to take charge as the Emergency Warden. 1. Evacuate staff, contractors and visitors as per evacuation procedure 2. Ring 000. 3. If possible inform Management at Council Offices on 6455 1777 or mobile ▪ **Emergency warden to** 1. Direct staff, contractors or visitors to the assembly point on Clarke Street 2. If possible, put on appropriate PPE and ascertain type of spill or source of fire or flooding 3. Keep people are away from hazardous areas ▪ Emergency Warden to keep notes on activities including time for records, any possible review enquiry or investigation. ▪ If possible to use staff, contractors or visitors to close off access to prevent further persons entering the area and to only allow emergency services past the assembly point
METHOD OF ACCOUNTING FOR PERSONS	**Check names against attendance register/diary/site induction**

Properties Up To 4.5 Km Downstream Of Nimmitabel Wastewater Treatment Facility

Revision:3 Dated:3 April 2017

Parcel	Property Address	Name	Phone	Property Name	Postal Address	Town	Postcode
7446	Ryedale Road	James P Jardine	6464 6485	'Old Curry Flat	826 Springfield Road	Nimmitabel	2631
9992	Springfield Road	William J Jardine			40 Bombala Street	Nimmitabel	2631
13304	Ryedale Road	Buckley Superannuation Fund	6457 2481	'Highland Grange'	5627 Kosciuszko Road	Jindabyne	2627
9968	Ryedale Road	William c & Dulcie I McDonald	6454 6262	'Willow View'	174 Ryedale Road	Nimmitabel	2631
13290	Ryedale Road	Thomas J & Patricia M Fitzgerald	6454 6439		PO Box 4	Nimmitabel	2631
9984	Ryedale Road	Walter T Fitzgerald		'Sunnyslope'	Clarke Street	Nimmitabel	2631
1767	Monro Street	Judith Tenzing			PO Box 402	Cronulla	2227
7041	Monro Street	RK Rayner & DN O'Reilly Land & Property			11 Gibson Street PO Box 2215	Batehaven Dangar	2536 2309
1587	Monaro Highway	Reginald N & Pamela R McGufficke	6452 2877	'Toll Bar'	Numeralla Road	Cooma	2630
1604	Monaro Highway	Estate of Mary P Power		'Kookabunna'	5401 Monaro Highway	Nimmitabel	2631

IT IS INTENDED THAT ONLY COUNCIL OFFICERS ARE TO INITIATE EXTERNAL CONTACTS

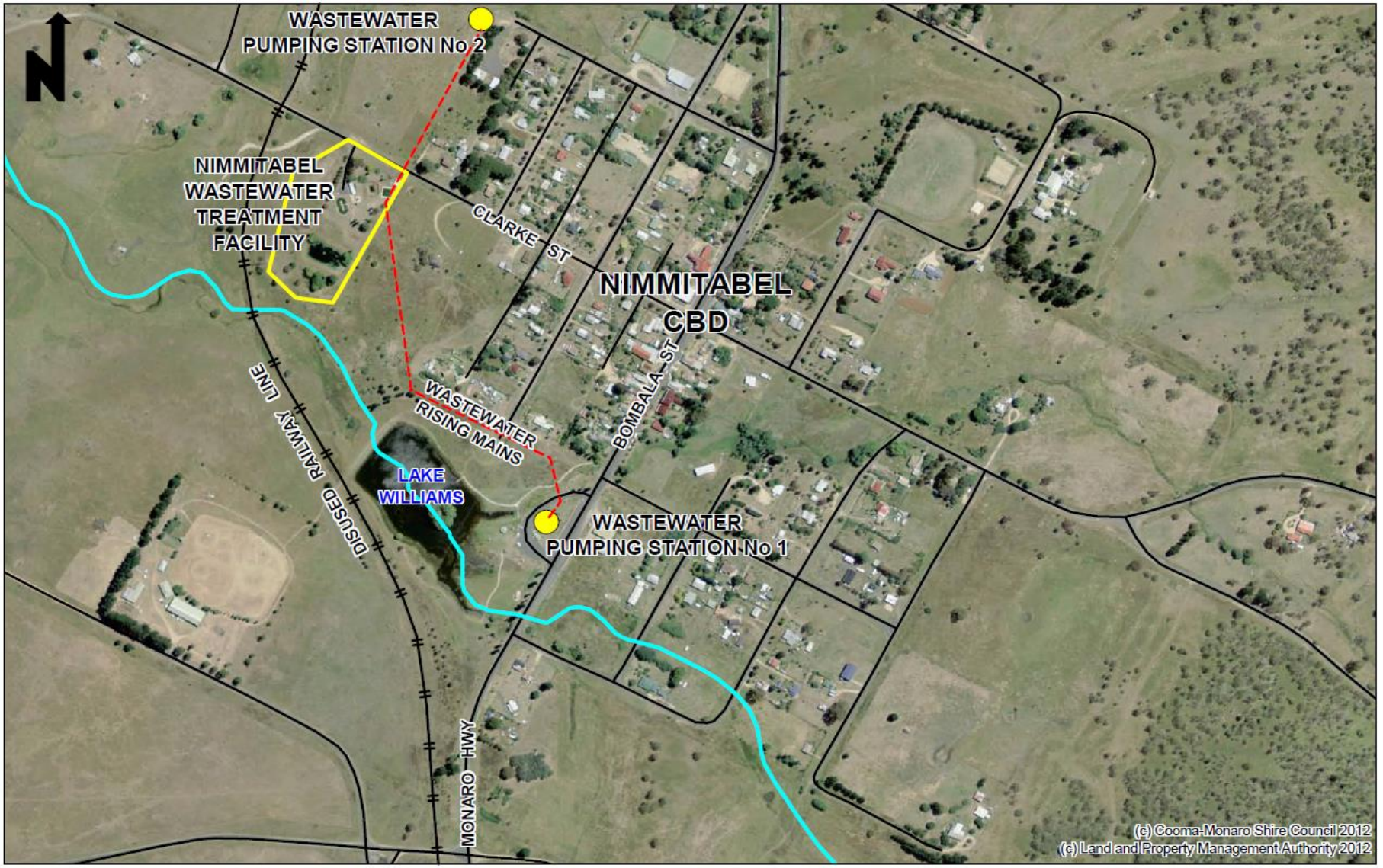
Initial reporting of all pollution incidents by the Public and Snowy Monaro Regional Council staff must be to the Council Offices.

Contact: Business hours 02 6455 1777
After hours 1300 345 345, 0427 406 668 or 0419 251 378

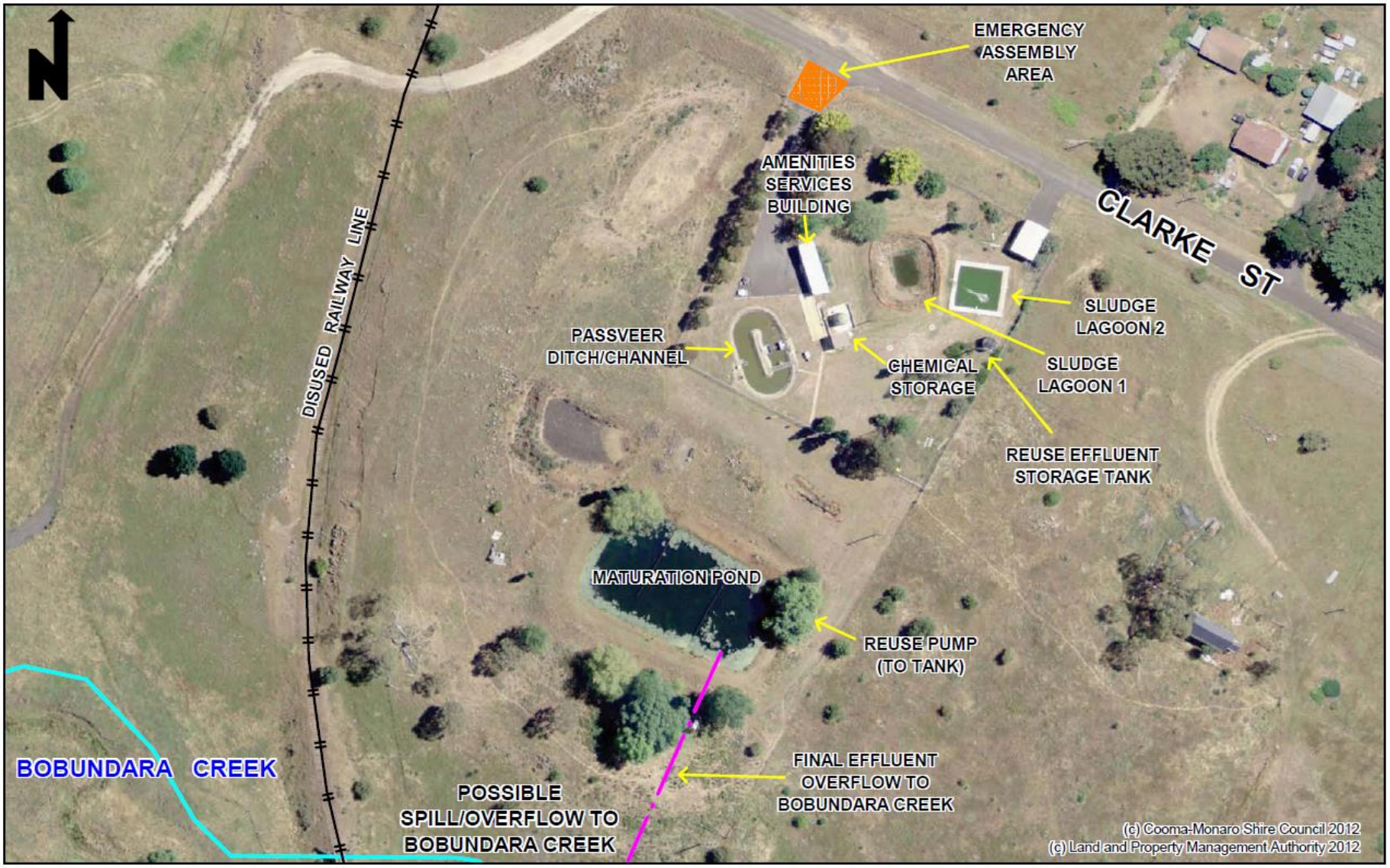
External Contacts for Nimmitabel Wastewater Treatment Scheme, Pollution Incident Response Management Plan

Current EPA mandatory requirement, is that the first four (4) agencies listed must be notified of any significant spill

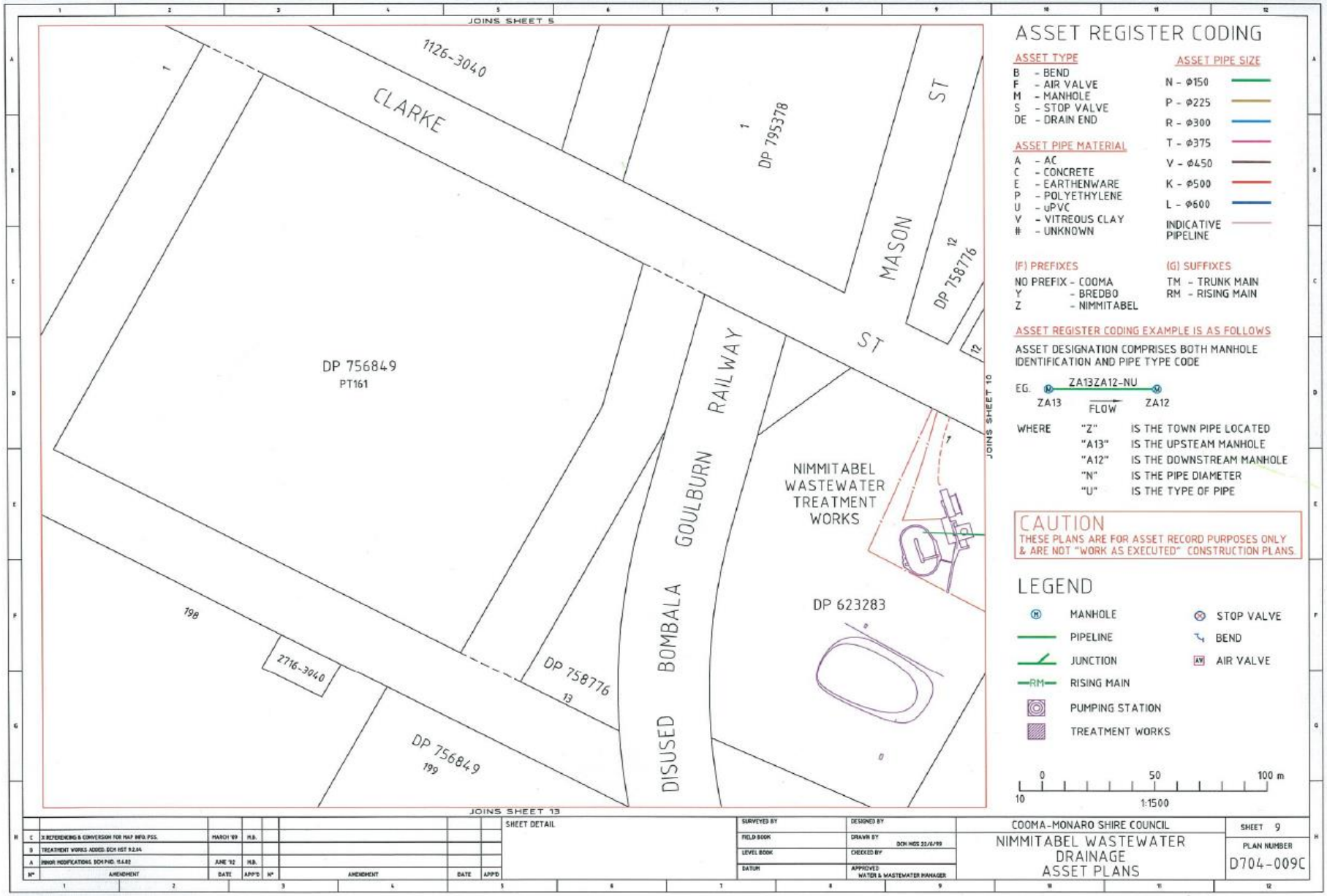
Name	Contact	Business Contact
The Environment Protection Authority (EPA), NSW	131 555	131 555
Cooma Fire Brigade	000	6452 2037 0407299 008
NSW Health – Emergency Number – Senior EHO	0418 464 916	02 6080 8900
WorkCover	13 10 50	
Police, Fire, Ambulance Emergency	000	000
Police – Local Command	000	6452 0099
Rural Fire Service – Emergency Management Centre	000	6455 0455
SES	13 25 00	6455 4801
Essential Energy – Electricity Utility Control Centre	13 20 80	
NSW Health – Division of Analytical Laboratories (DAL)	02 9646 0222	
NSW Food Authority	1300 552 406	
Catchment Management Authority – Environment & Heritage	6452 1455	
Department of Primary Industries – Office of Water District Office Agriculture	6452 1455 6455 7200	



NIMMITABEL WASTEWATER TREATMENT SYSTEM - LOCATION PLAN
POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN



NIMMITABEL WASTEWATER TREATMENT FACILITY - SITE PLAN
POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN


JOINS SHEET 5
1126-3040
CLARKE
ST
MASON
ST
DP 795378
1
DP 758776
12
12
DP 756849
PT161
RAILWAY
GOULBURN
BOMBALA
DISUSED
NIMMITABEL
WASTEWATER
TREATMENT
WORKS
DP 623283
JOINS SHEET 10
198
2716-3040
DP 758776
13
DP 756849
199
JOINS SHEET 13
ASSET REGISTER CODING
ASSET TYPE
B - BEND
F - AIR VALVE
M - MANHOLE
S - STOP VALVE
DE - DRAIN END
ASSET PIPE SIZE
N - ø150
P - ø225
R - ø300
T - ø375
V - ø450
K - ø500
L - ø600
INDICATIVE PIPELINE
ASSET PIPE MATERIAL
A - AC
C - CONCRETE
E - EARTHENWARE
P - POLYETHYLENE
U - uPVC
V - VITREOUS CLAY
- UNKNOWN
(F) PREFIXES
NO PREFIX - COOMA
Y - BREDBO
Z - NIMMITABEL
(G) SUFFIXES
TM - TRUNK MAIN
RM - RISING MAIN
ASSET REGISTER CODING EXAMPLE IS AS FOLLOWS
ASSET DESIGNATION COMPRISES BOTH MANHOLE IDENTIFICATION AND PIPE TYPE CODE
EG. ZA13ZA12-NU
ZA13
FLOW
ZA12
WHERE "Z" IS THE TOWN PIPE LOCATED
"A13" IS THE UPSTEAM MANHOLE
"A12" IS THE DOWNSTREAM MANHOLE
"N" IS THE PIPE DIAMETER
"U" IS THE TYPE OF PIPE
CAUTION
THESE PLANS ARE FOR ASSET RECORD PURPOSES ONLY & ARE NOT "WORK AS EXECUTED" CONSTRUCTION PLANS.
LEGEND
MANHOLE
PIPELINE
JUNCTION
RISING MAIN
PUMPING STATION
TREATMENT WORKS
STOP VALVE
BEND
AIR VALVE
0 50 100 m
10 1:1500
SHEET DETAIL
SURVEYED BY
DESIGNED BY
FIELD BOOK
DRAWN BY
LEVEL BOOK
CHECKED BY
DATUM
APPROVED WATER & WASTEWATER MANAGER
COOMA-MONARO SHIRE COUNCIL
NIMMITABEL WASTEWATER DRAINAGE ASSET PLANS
SHEET 9
PLAN NUMBER
D704-009C

Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **ALUMINIUM SULFATE SOLUTION**

Other name(s): Aluminium Sulphate Solution; Aluminium sulfate liquid; Liquid alum; Profloc AS.

Recommended use of the chemical and restrictions on use: Water treatment; paper and pulp; dyes; printing fabric.

Supplier: Ixom Operations Pty Ltd (Incorporated in Australia)
NZBN: 9429041465226
Street Address: 166 Totara Street
Mt Maunganui South
New Zealand

Telephone Number: +64 9 368 2700
Facsimile: +64 9 368 2710
Emergency Telephone: **0 800 734 607 (ALL HOURS)**

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

2. HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

SIGNAL WORD: WARNING

Subclasses:
Subclass 6.1 Category D - Substances which are acutely toxic.
Subclass 6.3 Category A - Substances that are irritating to the skin.
Subclass 6.4 Category A - Substances that are irritating to the eye.
Subclass 8.1 Category A - Substances that are corrosive to metals.
Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment.
Subclass 9.3 Category C - Substances that are harmful to terrestrial vertebrates.

Approval Number: HSR005743

Hazard Statement(s):
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H433 Harmful to terrestrial vertebrates.

Safety Data Sheet

Precautionary Statement(s):

Prevention:
P102 Keep out of reach of children.
P234 Keep only in original container.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing before re-use.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P321 Specific treatment (see First Aid Measures on the Safety Data Sheet).
P390 Absorb spillage to prevent material damage.
P391 Collect spillage.

Storage:
P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:
P501 In case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Hazard Codes
Aluminium sulfate	10043-01-3	ca. 28%	H315 H318
Non hazardous component(s)	-	to 100%	-

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Inhalation:
Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.

Skin Contact:
If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye Contact:
If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

Safety Data Sheet

Ingestion:
Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

Indication of immediate medical attention and special treatment needed:
Treat symptomatically. Material is acidic.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Not combustible, however, if material is involved in a fire use: Extinguishing media appropriate to surrounding fire conditions.

Hazchem or Emergency Action Code: 2X

Specific hazards arising from the substance or mixture:
Non-combustible material.

Special protective equipment and precautions for fire-fighters:
Decomposes on heating emitting toxic fumes, including those of oxides of sulfur and oxides of aluminium . Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures/Environmental precautions:
Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:
Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Neutralise with lime or soda ash. Collect and seal in properly labelled containers or drums for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid skin and eye contact and breathing in vapour, mists and aerosols.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well ventilated place. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Standards: No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for constituent(s):

Aluminium, as Al: Soluble salts WES-TWA 5 mg/m³

Safety Data Sheet

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Appropriate engineering controls:
Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Individual protection measures, such as Personal Protective Equipment (PPE):
The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Off-white to Light Grey
Odour:	Negligible
Solubility:	Miscible with water.
Specific Gravity:	1.31-1.33 @ 20°C
Relative Vapour Density (air=1):	Not available
Vapour Pressure (20 °C):	Not available
Flash Point (°C):	Not applicable
Flammability Limits (%):	Not applicable
Autoignition Temperature (°C):	Not available
Boiling Point/Range (°C):	102
pH:	1.8 - 2.4
Viscosity:	Not available

Safety Data Sheet

IXOM

Freezing Point/Range (°C): -15

10. STABILITY AND REACTIVITY

Reactivity: Reacts with metals.

Chemical stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions: Corrosive to some metals. Corrosive to aluminium. Corrosive to mild steel. Hazardous polymerisation will not occur.

Conditions to avoid: Avoid contact with alkalis .

Incompatible materials: Incompatible with alkalis. Incompatible with some metals and other materials (see 'Hazardous Reactions').

Hazardous decomposition products: Oxides of sulfur. Oxides of aluminium.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation. May cause burns to mouth and throat.

Eye contact: An eye irritant.

Skin contact: Contact with skin will result in irritation.

Inhalation: Breathing in mists or aerosols may produce respiratory irritation.

Acute toxicity: No LD50 data available for the product. For the constituent ALUMINIUM SULFATE:
Oral LD50 (mice): 6207 mg/kg (1)

Serious eye damage/irritation: For constituent ALUMINIUM SULFATE:
Standard Draize test Severe irritant (rabbit). (10 mg/24Hr) (1)

Moderate irritant (rabbit). (2)

Chronic effects: No information available for the product.

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways.

Aquatic toxicity: Toxic to aquatic organisms.
96hr LC50 (static) (Salvelinus fontinalis): 3.6 mg/L

Terrestrial toxicity: Harmful to terrestrial vertebrates.

13. DISPOSAL CONSIDERATIONS

Safety Data Sheet

Disposal methods:
Refer to local government authority for disposal recommendations. Dispose of contents/container in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION

Road and Rail Transport
Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

UN No:	3264
Transport Hazard Class:	8 Corrosive
Packing Group:	III
Proper Shipping Name or Technical Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS ALUMINIUM SULFATE)
Hazchem or Emergency Action Code:	2X

Marine Transport
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No:	3264
Transport Hazard Class:	8 Corrosive
Packing Group:	III
Proper Shipping Name or Technical Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS ALUMINIUM SULFATE)
IMDG EMS Fire:	F-A
IMDG EMS Spill:	S-B

Air Transport
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No:	3264
Transport Hazard Class:	8 Corrosive
Packing Group:	III
Proper Shipping Name or Technical Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS ALUMINIUM SULPHATE)

15. REGULATORY INFORMATION

Classification:
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Safety Data Sheet

Subclasses:
Subclass 6.1 Category D - Substances which are acutely toxic.
Subclass 6.3 Category A - Substances that are irritating to the skin.
Subclass 6.4 Category A - Substances that are irritating to the eye.
Subclass 8.1 Category A - Substances that are corrosive to metals.
Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment.
Subclass 9.3 Category C - Substances that are harmful to terrestrial vertebrates.

Approval Number: HSR005743

Hazard Statement(s):
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H433 Harmful to terrestrial vertebrates.

16. OTHER INFORMATION

(1) `Registry of Toxic Effects of Chemical Substances'. Ed. D. Sweet, US Dept. of Health & Human Services: Cincinatti, 10/ 2012.
(2) European Chemicals Bureau, IUCLID Dataset, Aluminium sulphate (10043-01-3) (2000 CD-ROM edition)

This safety data sheet has been prepared by Ixom Operations Pty Ltd Toxicology & SDS Services.

Reason(s) for Issue:
Revised Primary SDS
Updated Formulation
Change to Transport Information

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Pollution Incident Response Management Plan

Section 2 – Nimmitabel Wastewater Pumping Station No: 1

(This Plan should be read in conjunction with the SMRC Water & Wastewater Emergency Response and Crises Management Plan, and the SMRC Water & Wastewater Business Continuity Management Strategy Plan)

Snowy Monaro Regional Council 81 Commissioner Street Cooma NSW 2630 Licensed Site Location (License No 1392) Nimmitabel Wastewater Pumping Station No 1 Bombala Street Nimmitabel NSW 2631	NGR: 704,361m 5,956,567m Map References: 149°16’55” Longitude 36° 30’55” Latitude South

Section 2 – Nimmitabel Wastewater Pumping Station No: 1

Overview of the Activities on site:

- Nimmitabel Wastewater Pumping Station No 1collects wastewater from the Nimmitabel south drainage zone on the southern areas of Nimmitabel Township. The Pumping Station pumps the wastewater through a rising main to the north west along Monaro Street then to the Nimmitabel Wastewater Treatment Facility.

A failure of the Nimmitabel Wastewater Pumping Station No 1 has the potential to cause major environmental harm, to impact on Lake Williams and Bobundara Creek but with insignificant public health consequences. Whilst the facility has physical containment and pollution control measures in place that will minimise the risk of a pollution incident occurring, it is recognised that there are residual risks of spillage / discharge to Bobundara Creek that could have major environmental consequences.

Operating Hours:

Nimmitabel Wastewater Pumping Station No 1operates continuously on demand 24 hours per day, 7 days per week. The operating system is fully automated utilising Programmable Logic Controllers (PLC's) and radio SCADA (telemetry) systems for monitoring and emergency response

The pumping station is inspected seven (7) days per week by trained wastewater treatment plant operators or technicians.

Description of Surrounding Area:

Nimmitabel Wastewater Pumping Station No 1 is located on the Monaro Highway at the southern end of Bombala Street adjacent to Lake Williams. The pumping station sited on Council owned land, categorised as 'operational', approximately 310m south of Nimmitabel town centre.

The land to the west is made up of Lake Williams reserve with the remaining surrounding land typical of village residential development. The closest house is around 120m to the north.

Likelihood of a Pollution Incident Occurring:

(*The combination of design, construction, contingency planning and long-term maintenance for this facility should result in a system where overflows occur only in exceptional circumstances). e.g. A catastrophic electrical or equipment failure / an earthquake damaging wastewater structures or underground pipelines.*

- **Rare, but with Major Environmental Consequences.**

Refer to the Snowy Monaro Regional Council, Risk Assessment for Water Supply & Wastewater Workshop Report, Feb 2011.(appendix 'C' p1)

Hazards to Human Health & the Environment at this site as a Result of a Failure of the Wastewater Pump Station No: 1 and Discharge of Wastewater to the Environment:

Risk assessments of the facility have concluded that in the event of a discharge or spillage of wastewater to the environment there would be **insignificant consequences to public and operational staff health but could have major environmental consequences.**

Hazard	**Risk Rating Estimates**		**Contributing / Condition or Event**	**Action**
	Likelihood	**Consequence to the environment**		
Wastewater discharged to Bobundara Creek / Lake Williams.	Rare	Major	Major failure of the electrical energy or electricity supply or associated cables and associated equipment.	Activate emergency power procedure. Activate spill clean-up procedure

Wastewater discharged to Bobundara Creek / Lake Williams.	Rare	Major	Major equipment failure due to mechanical problems.	Activate replacement pump procedure. Activate spill clean-up procedure.
Wastewater discharged to Bobundara Creek / Lake Williams.	Rare	Major	Major structural failure. Damaged wastewater structures or underground pipelines	Activate drainage system isolation procedure. Activate spill clean-up procedure.

Pollution Prevention / Mitigation Measures:

Nimmitabel Wastewater Pumping Station No 1 has the following pollution prevention/mitigation measures incorporated into the facility design to minimise the risk of wastewater being spilled / discharged into Bobundara Creek;

- The pumping station electricity is supplied from Substation 11-122 on Clarke St, with backup from Substation 11-126 on Powis Street Nimmitabel.
- A standby generator can be connected to the pump station if a long duration electricity outage has been advised by Essential Energy. Permanent generator connection terminals have been installed to the pumping station.
- The pump station is fitted with 2 submersible pumps which work in a duty and standby arrangement. During peak inflows the pump station surcharges to an adjacent 'turkey nets' style overflow basin. The overflow basin has a gravity feed back to the pump well.
- The pump wet-well and retention basin are capable of storing 42.7 hours of average dry weather flows (ADWF) from the south Nimmitabel Drainage Zones, providing adequate time for response to a pump failure.
- The pump station can be isolated from the drainage system if required to facilitate repairs or maintenance to the pump wet-well.
- The incoming gravity drainage system can be used to store wastewater while repairs are undertaken in the pump well. Should repairs require a greater period of time than the system capacity for wastewater storage then a process would be put in place to vacuum pump wastewater from the drainage system and safely transport to the Nimmitabel Wastewater Treatment Facility, Pasveer ditch.

Emergency & early warning systems:

Nimmitabel Wastewater Pumping Station No 1 has a 24 hour alarm system that notifies SMRC staff in the event of a system failure. In the event of a failure the telemetry system will keep attempting to make contact until such time as the call is answered.

The response time by SMRC staff in the event of a failure is less than one (1) hour.

Chemical Product Inventory & Material Handling Sheets (Hazardous)				
Trade Name Substance	**Solid/liquid/gas/powder**	**Maximum volume of storage**	**Location (marked on site plan)**	**Type of Containment**
THERE ARE NO HAZARDOUS CHEMICALS RETAINED ON SITE				

Safety Equipment and Personal Protective Equipment		
Equipment	**Location**	**Personnel Trained / Certified in use if equipment**
3 Sets of Breathing Apparatus 1 Spare BA Cylinder	The Glen WTF. Blue cabinet on south wall of the laboratory.	Water & Wastewater Supervisor – 0419 256 323 WTF Technician - 0409 669 576 Nimmitabel WTF Operator - 0427 406 668
Confined spaces access equipment Harnesses, lanyards, lifelines, portable Davit, lifting tripod etc.	The Glen WTF. Electrical room Workshop	Water & Wastewater Supervisor – 0419 256 323 WTF Technician - 0409 669 576 Nimmitabel WTF Operator - 0427 406 668

Pollution Prevention Equipment Inventory / (On site and Off Site Resources)			
Type	**Amount**	**Equipment Location**	**Contact**
Spill Sock	100 meters	The Glen Workshop	Water & Wastewater Supervisor – 0419 256 323
Sewer cleaning equipment	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Waste water pumps	4	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Pressure washers	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Duel Control Sweeper	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Various tipper trucks	7	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Tractor drawn road broom	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Backhoe loader	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Volvo loaders	2	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Tractors	3	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Portable generators (towable)	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323

Emergency Power/Diesel Generator Hire		
Company Name	**Generators Available**	**Contact details**
Aggreko Generator Rentals	Sydney - up to 1250kVa	1800 808 109
Atlas Copco Sydney	Sydney – up to 1000kVa	13 34 20
Genlec Power Systems	Queanbeyan depot – up to 1000kVa	0416 314 010
SGH Southern Generators & Electrical	Queanbeyan – up to 1400kVa	1300 350 706
Genplus Hire & Sales	Queanbeyan – up to 1250kVa single unit, up to 20,000kVa combination	02 6297 2641 0412 663 566
Coates Hire	Fyshwick – up to 200kVa but can source larger items	02 6452 5460

SMRC staff responsible for the PIRMP		
Position	**Phone number**	**Responsibilities**
Director Operations & Infrastructure	0427 018 846	Authorisation & activation of the PIRMP.
Manager Water & Wastewater	0409 440 733	Liaison with EPA NSW. Notification of other relevant authorities listed in this plan. Management of a Pollution Incident Response.
Water & Wastewater Technical Officer	0409 627 026	Management of a Pollution Incident Response.
Water & Wastewater Supervisor	0419 256 323	Management of a Pollution Incident Response.
Water & Wastewater Operator	0427 406 668	Management of a Pollution Incident Response.

Procedures to be followed by SMRC (the license holder) in notifying a pollution incident:

The procedures to be followed by SMRC in the event of a pollution incident are set out in the SMRC Water & Wastewater, Emergency Response & Crisis Management Plan, (ER&CMP) which includes the following EPA requirements,

Immediate notification of relevant authorities by the ER&CMP authorised officer – Manager Water & Wastewater:

5. (i) Call 000, 'notify only' Fire and Rescue, no immediate threat to life or serious threat to property. **NO EMERGENCY RESPONSE REQUIRED**

   (ii) Call 000 if the incident presents an immediate threat to human health or property. **EMERGENCY RESPONSE REQUIRED**

   (Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are the first responders, responsible for controlling and containing incidents).
6. The Environment Protection Authority (EPA), NSW – Environment Line on 13 15 55
7. NSW Health – Emergency Number 0418 464 916
8. WorkCover 13 10 50

Communications:

Persons through whom all communications are to be made and procedures to be followed for co-ordinating with the authorities and other persons that have been notified, including 'Property owners downstream on Bobundara Creek' and 'External Organisations' are set out in SECTION 7, COMMUNICATIONS MANAGEMENT TEAM of the SMRC (ER&CMP).

Training:

An annual desk top training exercise will be conducted with the staff responsible for the management and operation of the PIRMP. The support contractors / clean-up companies listed in the PIRMP will be invited to participate in the desk top exercise. A record of the exercise including the names of participants and issues raised will be maintained for each exercise and used to initiate improvements in the PIRMP.

An annual field training exercise will be conducted with the staff responsible for the management and operation of the PIRMP including the use of a range of equipment that could be required in a real event. A record of the exercise including the names of participants and issues raised will be maintained for each exercise and used to initiate improvements in the PIRMP.
The training exercise record can be found in SMRC's record management system. Container CS502 – POLLUTION INCIDENCE RESPONSE MANAGEMENT.

Action Plan – in response to possible or actual effluent overflow from Nimmitabel Wastewater Treatment Facility		
SMRC Responsibility	**Actions**	**Notes and Contact Details**
Council staff receiving report	Report from the Public, Council staff or telemetry system - Obtain details of spill & location - Obtain contact details of person reporting the spill	Report details of the spill to Wastewater Operator on call 0427 406 668
Wastewater Operator on Call	Notify Water & Wastewater Supervisor	Report details of the spill to Water & Wastewater Supervisor 0419 256 323
Water & Wastewater Supervisor	Carry out Site Specific Risk Assessment and Toolbox Meeting to identify; - Assess incident. / take photographs to document the overflow / spill - Determine the cause of the failure / spill Electrical failure Mechanical Failure Blockage Structural Failure - Estimate of time to return the Nimmitabel Wastewater Pump Station No: 1 to full service. - Possible environmental concerns e.g. effluent overflows to the environment. - Extent of work to be carried out and if any hazards exist e.g. phone/power cables, gas &/or water, storm water drains etc. - If additional resources/materials are required e.g. personnel, suitable barricades, sandbags, sludge pump, vacuum truck etc. - Conduct Work Health Safety (WHS) risk assessment. - Personal Protective Equipment & Clothing (PPEC). - Manual handling issues. - Traffic control methods/issues (where necessary).	Site Specific Risk Assessment 250.2017.414.1 Record of Toolbox Meeting 250.2017.334.1

	- Note prevailing weather conditions and obtain a 5 day forecast. - Complete or have completed appropriate forms e.g. Confined Space Entry Permit, Traffic Control Plan (TCP), Safe Work Method Statement (WMS) and Environmental Control Plan.	
Water & Wastewater Supervisor	- Carry out site induction and/or toolbox meeting for all workers involved with the incident on the site (both council employees and contractors) so everyone is aware of their responsibilities and what work is to be carried out. - Complete Site Specific Risk Assessment. - If entering the manhole or pump well, complete confined space risk assessment and entry requirements before entering.	
Water & Wastewater Supervisor	Notify the Manager Water & Wastewater that the system failure / spill could have major environmental consequences. - Provide an estimate of time to return the pumping station to full service (Pump well has 8.5 hours ADWF capacity) if practical. - Confirm **minor incident** that can be managed by SMRC staff and / or local contractors. - Confirm **major incident** requiring the services of an accredited emergency pollution incident management company.	Contact Manager Water & Wastewater 0409 440 733
Manager Water & Wastewater	In the event of a **major incident** notify Director Operations & Infrastructure who will authorise and activate the PIRMP - Notify The Environment Protection Authority (EPA), NSW - Commence SMRC Water & Wastewater Emergency Response and Crises Management Plan, and the SMRC Water & Wastewater Business Continuity Management Strategy Plan. - If required, contact an accredited emergency pollution incident management company. e.g. Transpacific Industries Group (Canberra & Bega).	Director Operations & Infrastructure 0427 018 846 EPA 13 15 55 24 hour emergency spills response 1800 774 557

Water & Wastewater Supervisor	- Implement traffic control plan and pedestrian management plan at Nimmitabel Wastewater Pumping Station No 1 and the Nimmitabel Wastewater Treatment Facility. - Implement environmental controls by placing absorption /containment barriers, sandbags between the pumping station site and Lake Williams Creek. - Implement Lake Williams / Bobundara Creek water sampling and testing plan.	
Water & Wastewater Supervisor / Manager Water & Wastewater	**General Procedure** **Minor Incident** - Engage a local contractor if required from the list of external resources with a vacuum pump to commence pumping procedures from the pump well for transportation and transfer to the Nimmitabel Wastewater Treatment facility Pasveer ditch. . Continue the process until such time as the surcharge ceases and or the failure is corrected. Then undertake clean-up, disinfection and incident reporting procedures. - Should for some reason the pump well not be accessible to the vacuum pump then remove the cover from manhole ZD1(asset plan D704-014D) and commence pumping from that location. If practical and when the pump well wastewater level has lowered, isolate the pump well from the drainage system by closing the pump well inlet gate valve. Continue the process until such time as the surcharge ceases and or the failure is corrected then undertake clean-up, disinfection and incident reporting procedures.	

Water & Wastewater Supervisor / Manager Water & Wastewater	**Major Incident** - In the event that local resources are unable to contain and manage the spill, maintain all reasonable attempts to use available vacuum pumps to remove wastewater from the pump well and drainage system and continue with spill containment and clean up measures until such time as an external resource with the capacity to manage a major pollution incident is engaged and arrives on site. - If necessary engage external resources to project manage and implement the emergency response, waste removal and remediation works until such time as the surcharge ceases and or the failure is corrected including clean-up, disinfection and incident reporting procedures. -	
	Minor & Major Incident - At the completion of the clean-up and remediation works undertake a site inspection to confirm that the site has been successfully decontaminated. - Remove all temporary works and traffic control signs. - Undertake a debriefing with all staff and contractors and provide Council with an incident report for approval and forwarding to the EPA as required.	

Nimmitabel Wastewater Pumping Station No: 1 - Emergency Procedures

BUILDING	**NIMMITABEL WASTEWATER PUMPING STATION NO: 1**	**EVACUATION ROUTE**	**DEPENDANT ON EMERGENCY**
FLOOR	**GROUND LEVEL**	**ASSEMBLY POINT**	**MAIN ENTRANCE GATE**
WARDEN	**OPERATOR ON DUTY**	**LOCATION OF EVACUATION MAP**	**TBA**
FIRST AID PERSONNEL	**OPERATOR ON DUTY**	**COMMUNICATION CONTROL POINT**	**MAIN ENTRANCE GATE**
HOURS OF OCCUPANCY	**N/A**	**AFTER HOURS OCCUPANCY**	**OPERATOR ON CALL**

SPECIFIC HAZARDS	**N/A**	**SPECIFIC CONTROLS**	**N/A**
AFTER HOURS HAZARDS	**No Area Lighting**	**CONTROL MEASURES**	**Erect temporary flood lights**
EMERGENCY VEHICLES AREAS	**MAIN ENTRANCE GATE**		
POSSIBLE THREATS/TYPE OF EMERGENCIES	**WASTEWATER SPILL, ELECTRICAL FAILURE, MECHANICAL FAILURE, STRUCTURAL FAILURE/COLLAPSE, BUSH FIRE, FLOOD, BOMB THREAT**		

EVACUATION PROCEDURE	▪ Staff/Contractors or visitors become aware that there is an emergency, could be:- Wastewater spill Smoke Flooding Bomb Threat The emergency could be reported by staff, contractors or visitor. ▪ If evacuation is to take place, the Water & Wastewater Supervisor or Operator on-call for the pumping station is to take charge as the Emergency Warden. 4. Evacuate staff, contractors and visitors as per evacuation procedure 5. Ring 000. 6. If possible inform Management at Council Offices on 6455 1777 or mobile ▪ **Emergency warden to** 4. Direct staff, contractors or visitors to the assembly point on Bombala Street/Monaro Highway 5. If possible, put on appropriate PPE and ascertain type of spill or source of fire or flooding 6. Keep people are away from hazardous areas ▪ Emergency Warden to keep notes on activities including time for records, any possible review enquiry or investigation. ▪ If possible to use staff, contractors or visitors to close off access to prevent further persons entering the area and to only allow emergency services past the assembly point
METHOD OF ACCOUNTING FOR PERSONS	**Check names against attendance register/diary/site induction**

Properties Up To 5 Km Downstream Of Nimmitabel Wastewater Pumping Station No: 1

Revision:2 Dated:3 April 2017

Parcel	Property Address	Name	Phone	Property Name	Postal Address	Town	Postcode

Redacted. Information available to SMRC staff.

IT IS INTENDED THAT ONLY COUNCIL OFFICERS ARE TO INITIATE EXTERNAL CONTACTS

Initial reporting of all pollution incidents by the Public and Snowy Monaro Regional Council staff must be to the Council Offices.

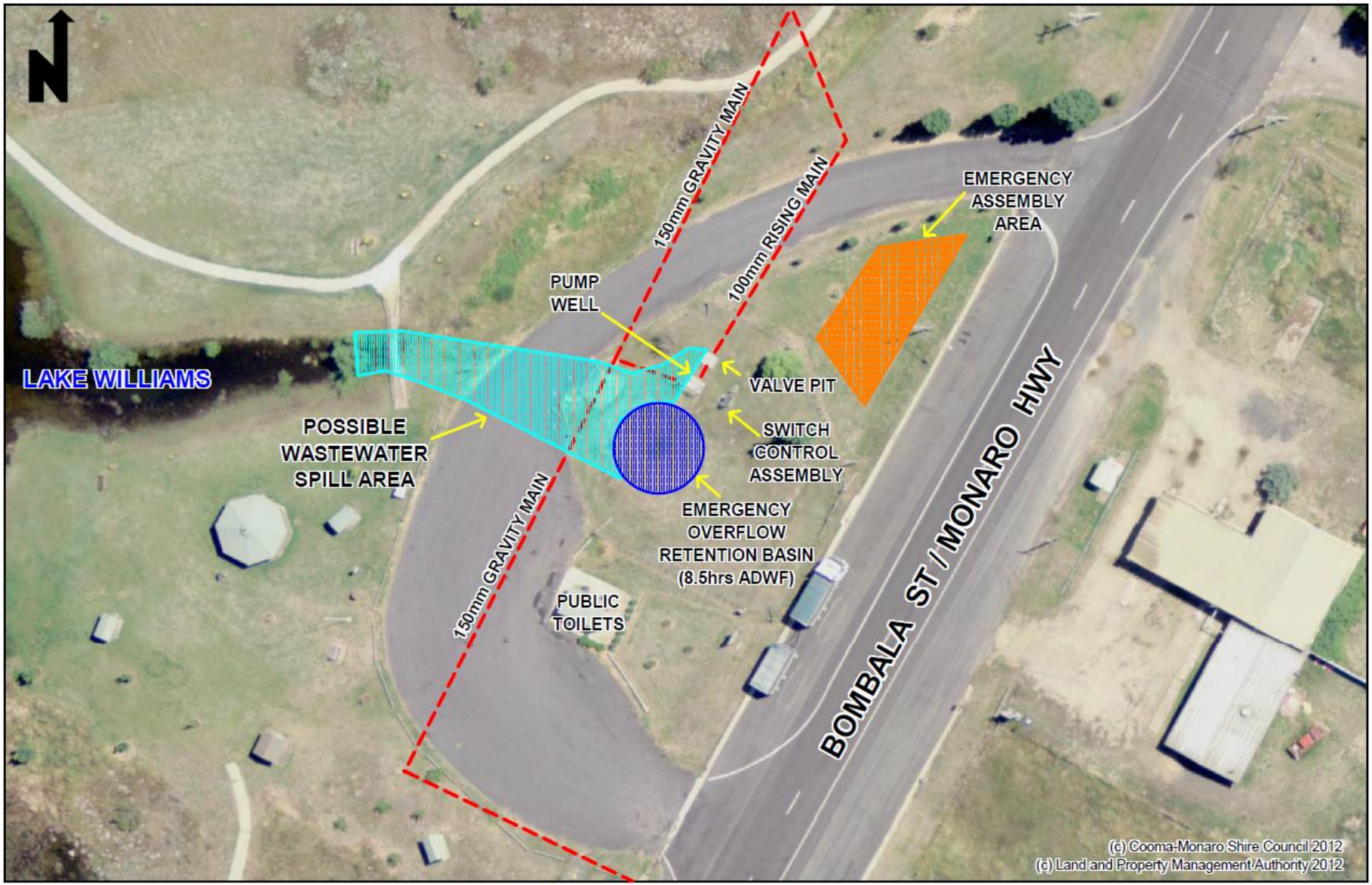
Contact: Business hours 02 6455 1777
After hours 1300 345 345, & 0427 406 668 or 0419 251 378

External Contacts for Nimmitabel Wastewater Treatment Scheme, Pollution Incident Response Management Plan

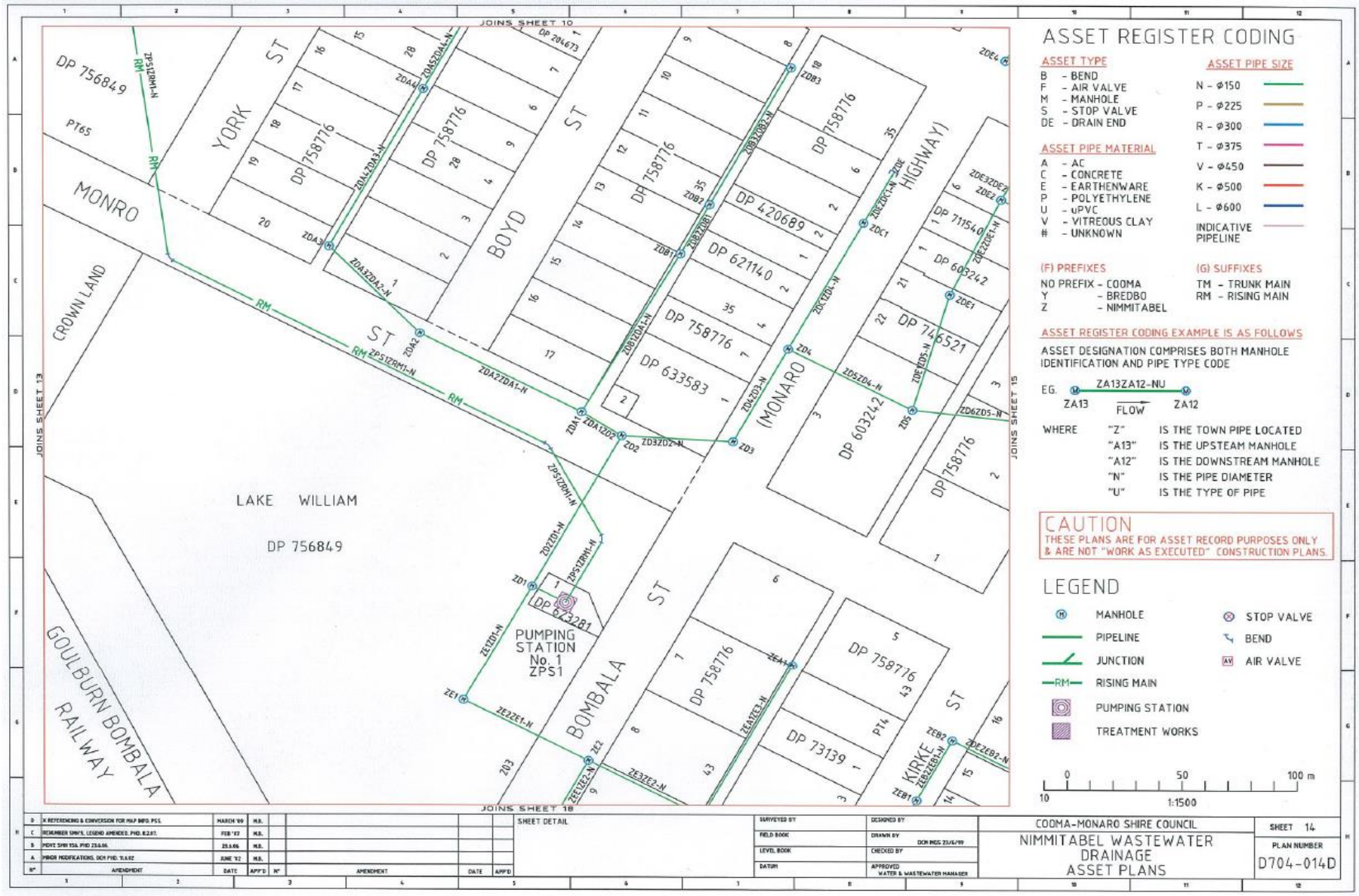
Current EPA mandatory requirement, is that the first four (4) agencies listed must be notified of any significant spill

Name	Contact	Business Contact
The Environment Protection Authority (EPA), NSW	131 555	131 555
Cooma Fire Brigade	000	6452 2037 0407299 008
NSW Health – Emergency Number – Senior EHO	0418 464 916	02 6080 8900
WorkCover	13 10 50	
Police, Fire, Ambulance Emergency	000	000
Police – Local Command	000	6452 0099
Rural Fire Service – Emergency Management Centre	000	6455 0455
SES	13 25 00	6455 4801
Essential Energy – Electricity Utility Control Centre	13 20 80	
NSW Health – Division of Analytical Laboratories (DAL)	02 9646 0222	
NSW Food Authority	1300 552 406	
Catchment Management Authority – Environment & Heritage	6452 1455	
Department of Primary Industries – Office of Water District Office Agriculture	6452 1455 6455 7200	

NIMMITABEL WASTEWATER TREATMENT SYSTEM - LOCATION PLAN
POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN



NIMMITABEL WASTEWATER PUMPING STATION No 1 - SITE PLAN
POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN


ASSET REGISTER CODING
ASSET TYPE
B - BEND
F - AIR VALVE
M - MANHOLE
S - STOP VALVE
DE - DRAIN END
ASSET PIPE SIZE
N - ø150
P - ø225
R - ø300
T - ø375
V - ø450
K - ø500
L - ø600
INDICATIVE PIPELINE
ASSET PIPE MATERIAL
A - AC
C - CONCRETE
E - EARTHENWARE
P - POLYETHYLENE
U - uPVC
V - VITREOUS CLAY
- UNKNOWN
(F) PREFIXES
NO PREFIX - COOMA
Y - BREDBO
Z - NIMMITABEL
(G) SUFFIXES
TM - TRUNK MAIN
RM - RISING MAIN
ASSET REGISTER CODING EXAMPLE IS AS FOLLOWS
ASSET DESIGNATION COMPRISES BOTH MANHOLE IDENTIFICATION AND PIPE TYPE CODE
EG. ZA13ZA12-NU
ZA13 FLOW ZA12
WHERE "Z" IS THE TOWN PIPE LOCATED
"A13" IS THE UPSTEAM MANHOLE
"A12" IS THE DOWNSTREAM MANHOLE
"N" IS THE PIPE DIAMETER
"U" IS THE TYPE OF PIPE
CAUTION
THESE PLANS ARE FOR ASSET RECORD PURPOSES ONLY & ARE NOT "WORK AS EXECUTED" CONSTRUCTION PLANS.
LEGEND
MANHOLE
PIPELINE
JUNCTION
RISING MAIN
PUMPING STATION
TREATMENT WORKS
STOP VALVE
BEND
AIR VALVE
0 50 100 m
10 1:1500
JOINS SHEET 10
JOINS SHEET 13
JOINS SHEET 15
JOINS SHEET 18
YORK ST
BOYD ST
MONRO ST
BOMBALA ST
KIRKE ST
HIGHWAY
(MONARO)
CROWN LAND
LAKE WILLIAM
DP 756849
GOULBURN BOMBALA RAILWAY
PUMPING STATION No.1 ZPS1
DP 758776
DP 420689
DP 621140
DP 633583
DP 603242
DP 711540
DP 746521
DP 73139
DP 643281
SHEET DETAIL
COOMA-MONARO SHIRE COUNCIL
NIMMITABEL WASTEWATER DRAINAGE ASSET PLANS
SHEET 14
PLAN NUMBER
D704-014D

Pollution Incident Response Management Plan

Section 3 – Nimmitabel Wastewater Pumping Station No: 2

(This Plan should be read in conjunction with the SMRC Water & Wastewater Emergency Response and Crises Management Plan, and the SMRC Water & Wastewater Business Continuity Management Strategy Plan)

Snowy Monaro Regional Council 81 Commissioner Street Cooma NSW 2630 Licensed Site Location (License No 1392) Nimmitabel Wastewater Pumping Station No 2 Bentley Street Nimmitabel NSW 2631	NGR: 704,281m 5,957,201m Map References: 149°16’50” Longitude 36° 30’44” Latitude South

Section 3 – Nimmitabel Wastewater Pumping Station No: 2

Overview of the Activities on site:

- Nimmitabel Wastewater Pumping Station No 2 collects wastewater from the Nimmitabel north drainage zone on the northern areas of Nimmitabel Township. The Pumping Station pumps the wastewater through a rising main to the south along the Powis Street reserve then to the Nimmitabel Wastewater Treatment Facility.

A failure of the Nimmitabel Wastewater Pumping Station No 2 has the potential to cause major environmental harm, to impact on an unnamed non-perennial water course but with insignificant public health consequences. Whilst the facility has physical containment and pollution control measures in place that will minimise the risk of a pollution incident occurring, it is recognised that there are residual risks of spillage / discharge an unnamed non-perennial water course that could have major environmental consequences.

Operating Hours:

Nimmitabel Wastewater Pumping Station No2 operates continuously on demand 24 hours per day, 7 days per week. The operating system is fully automated utilising Programmable Logic Controllers (PLC's) and radio SCADA (telemetry) systems for monitoring and emergency response

The pumping station is inspected 7 days per week by trained wastewater treatment plant operators or technicians.

Description of surrounding area:

Nimmitabel Wastewater Pumping Station No 2 is located on central western edge of Nimmitabel Village at the junction of Bentley Street and Powis Street (not-constructed). The pumping station sited on a Council owned land, categorised as 'operational' approximately 450m north west of Nimmitabel town centre.

The land to the east is made up of typical Nimmitabel sub division with cottages. The land to the west is stock paddocks with an unnamed non-perennial water course. The closest house is around 105m to the east.

Likelihood of a pollution incident occurring:

(The combination of design, construction, contingency planning and long-term maintenance for this facility should result in a system where overflows occur only in exceptional circumstances). e.g. A catastrophic electrical or equipment failure / an earthquake damaging wastewater structures or underground pipelines.

- **Rare, but with Major Environmental Consequences.**

  Refer to the Snowy Monaro Regional Council, Risk Assessment for Water Supply & Wastewater Workshop Report, Feb 2011.(appendix 'C' p1)

Hazards to human health & the environment at this site as a result of a failure of the Wastewater Pump Station No:2 and discharge of wastewater to the environment:

Risk assessments of the facility have concluded that in the event of a discharge or spillage of wastewater to the environment there would be **insignificant consequences to public and operational staff health but could have major environmental consequences.**

Hazard	Risk Rating Estimates		Contributing / Condition or Event	Action
	Likelihood	Consequence to the environment		
Wastewater discharged to an unnamed non-perennial water course.	Rare	Major	Major failure of the electrical energy or electricity supply or associated cables and associated equipment.	Activate emergency power procedure. Activate spill clean-up procedure.
Wastewater discharged to an unnamed non-perennial water	Rare	Major	Major equipment failure due to mechanical problems.	Activate replacement

course.				pump procedure. Activate spill clean-up procedure.
Wastewater discharged to an unnamed non-perennial water course.	Rare	Major	Major structural failure. Major structural failure. Damaged wastewater structures or underground pipelines	Activate drainage system isolation procedure. Activate spill clean-up procedure.

Pollution Prevention / Mitigation Measures:

Nimmitabel Wastewater Pumping Station No 2 has the following pollution prevention/mitigation measures incorporated into the facility design to minimise the risk of wastewater being spilled / discharged into Cooma Creek;

- the pumping station electricity is supplied from Substation 11-126 on Powis St, with backup from Substation 11-122 on Clarke St, Nimmitabel.
- a standby generator can be connected to the pump station if a long duration electricity outage has been advised by Essential Energy. Permanent generator connection terminals will be installed to the pumping station in 2012/2013.
- the pump station is fitted with 2 submersible pumps which work in a duty and standby arrangement.
- the pump wet-well and retention basin are capable of storing 42.7 hours of average dry weather flows (ADWF) from the south Nimmitabel Drainage Zones, providing adequate time for response to a pump failure.
- the pump station can be isolated from the drainage system if required to facilitate repairs or maintenance to the pump wet-well.

- the incoming gravity drainage system can be used to store wastewater while repairs are undertaken in the pump well. Should repairs require a greater period of time than the system capacity for wastewater storage then a process would be put in place to vacuum pump wastewater from the drainage system and safely transport to the Nimmitabel Wastewater Treatment Facility, Pasveer ditch.

Emergency & early warning systems:

Nimmitabel Wastewater Pumping Station No 2 has a 24 hour alarm system that notifies SMRC staff in the event of a system failure. In the event of a failure the telemetry system will keep attempting to make contact until such time as the call is answered.

The response time by SMRC staff in the event of a failure is less than one (1) hour.

Chemical Product Inventory & Material Handling Sheets (Hazardous)				
Trade Name Substance	**Solid/liquid/gas/powder**	**Maximum volume of storage**	**Location (marked on site plan)**	**Type of Containment**
THERE ARE NO HAZARDOUS CHEMICALS RETAINED ON SITE				

Safety Equipment and Personal Protective Equipment		
Equipment	**Location**	**Personnel Trained / Certified in use if equipment**
3 Sets of Breathing Apparatus 1 Spare BA Cylinder	The Glen WWTF. Blue cabinet on south wall of the laboratory.	Water & Wastewater Supervisor – 0419 256 323 WTF Technician - 0409 669 576 Nimmitabel WTF Operator - 0427 406 668
Confined spaces access equipment Harnesses, lanyards, lifelines, portable Davit, lifting tripod etc.	The Glen WWTF. Electrical room Workshop	Water & Wastewater Supervisor – 0419 256 323 WTF Technician - 0409 669 576 Nimmitabel WTF Operator - 0427 406 668

Pollution Prevention Equipment Inventory / (On site and Off Site Resources)			
Type	**Amount**	**Equipment Location**	**Contact**
Spill Sock	100 meters	The Glen Workshop	Water & Wastewater Supervisor – 0419 256 323
Sewer cleaning equipment	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Waste water pumps	4	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Pressure washers	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Duel Control Sweeper	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323

Various tipper trucks	7	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Tractor drawn road broom	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Backhoe loader	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Volvo loaders	2	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Tractors	3	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Portable generators (towable)	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323

Emergency Power/Diesel Generator Hire		
Company Name	**Generators Available**	**Contact details**
Aggreko Generator Rentals	Sydney - up to 1250kVa	1800 808 109
Atlas Copco Sydney	Sydney – up to 1000kVa	13 34 20
Genlec Power Systems	Queanbeyan depot – up to 1000kVa	0416 314 010
SGH Southern Generators & Electrical	Queanbeyan – up to 1400kVa	1300 350 706
Genplus Hire & Sales	Queanbeyan – up to 1250kVa single unit, up to 20,000kVa combination	02 6297 2641 0412 663 566
Coates Hire	Fyshwick – up to 200kVa but can source larger items	02 6452 5460

SMRC staff responsible for the PIRMP		
Position	**Phone number**	**Responsibilities**
Director Operations & Infrastructure	0427 018 846	Authorisation & activation of the PIRMP.
Manager Water & Wastewater	0409 440 733	Liaison with EPA NSW. Notification of other relevant authorities listed in this plan. Management of a Pollution Incident Response.
Water & Wastewater Technical Officer	0409 627 026	Management of a Pollution Incident Response.
Water & Wastewater Supervisor	0419 256 323	Management of a Pollution Incident Response.
Water & Wastewater Operator	0427 406 668	Management of a Pollution Incident Response.

Procedures to be followed by SMRC (the license holder) in notifying a pollution incident:

The procedures to be followed by SMRC in the event of a pollution incident are set out in the SMRC Water & Wastewater, Emergency Response & Crisis Management Plan, (ER&CMP) which includes the following EPA requirements,

Immediate notification of relevant authorities by the ER&CMP authorised officer – Manager Water & Wastewater:

9. (i) Call 000, 'notify only' Fire and Rescue, no immediate threat to life or serious threat to property. **NO EMERGENCY RESPONSE REQUIRED**

   (ii) Call 000 if the incident presents an immediate threat to human health or property. **EMERGENCY RESPONSE REQUIRED**

   (Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are the first responders, responsible for controlling and containing incidents).

10. The Environment Protection Authority (EPA), NSW – Environment Line on 13 15 55
11. NSW Health – Emergency Number 0418 464 916
12. WorkCover 13 10 50

Communications:

Persons through whom all communications are to be made and procedures to be followed for co-ordinating with the authorities and other persons that have been notified, including 'Property owners downstream on unnamed non perennial water course' and 'External Organisations' are set out in SECTION 7, COMMUNICATIONS MANAGEMENT TEAM of the SMRC (ER&CMP).

Training:

An annual desk top training exercise will be conducted with the staff responsible for the management and operation of the PIRMP. The support contractors / clean-up companies listed in the PIRMP will be invited to participate in the desk top exercise. A record of the exercise including the names of participants and issues raised will be maintained for each exercise and used to initiate improvements in the PIRMP.

An annual field training exercise will be conducted with the staff responsible for the management and operation of the PIRMP including the use of a range of equipment that could be required in a real event. A record of the exercise including the names of participants and issues raised will be maintained for each exercise and used to initiate improvements in the PIRMP.
The training exercise record can be found in SMRC's record management system. Container CS502 – POLLUTION INCIDENCE RESPONSE MANAGEMENT.

Action Plan – in response to possible or actual effluent overflow from Nimmitabel Wastewater Treatment Facility

SMRC Responsibility	Actions	Notes and Contact Details
Council staff receiving report	Report from the Public, Council staff or telemetry system - Obtain details of spill & location - Obtain contact details of person reporting the spill	Report details of the spill to Wastewater Operator on call 0427 406 668
Wastewater Operator on Call	Notify Water & Wastewater Supervisor	Report details of the spill to Water & Wastewater Supervisor 0419 256 323

Water & Wastewater Supervisor	Carry out Site Specific Risk Assessment and Toolbox Meeting to identify; - Assess incident / take photographs to document the overflow / spill - Determine the cause of the failure / spill Electrical Failure Mechanical Failure Blockage Structural Failure - Estimate of time to return the pumping station to full service (Pump well has 42.7 hours ADWF capacity) if practical. - Possible environmental concerns e.g. effluent overflows to the environment. - Extent of work to be carried out and if any hazards exist e.g. phone/power cables, gas &/or water, storm water drains etc. - If additional resources/materials are required e.g. personnel, suitable barricades, sandbags, sludge pump, vacuum truck etc. - Conduct WHS risk assessment. - Personal Protective Equipment & Clothing (PPEC). - Manual handling issues. - Traffic control methods/issues (where necessary). - Note prevailing weather conditions and obtain a 5 day forecast. - Complete appropriate forms e.g. Confined Space Permit, Traffic Control Plan (TCP), Work Method Statement (WMS) and Environmental Control Plans.	Site Specific Risk Assessment 250.2017.414.1 Record of Toolbox Meeting 250.2017.334.1
Water & Wastewater Supervisor	- Carry out site induction and/or toolbox meeting for all workers involved with the incident on the site (both council employees and contractors) so everyone is aware of their responsibilities and what work is to be carried out.	

Water & Wastewater Supervisor	Notify the Manager Water & Wastewater that the system failure / spill could have major environmental consequences. - Provide an estimate of time to return the pumping station to full service (Pump well has 2.6. hours ADWF capacity) if practical. - Confirm **minor incident** that can be managed by SMRC staff and / or local contractors. - Confirm **major incident** requiring the services of an accredited emergency pollution incident management company.	Contact Manager Water & Wastewater 0409 440 733
Manager Water & Wastewater	In the event of a **major incident** notify Director Operations & Infrastructure who will authorise and activate the PIRMP - Notify The Environment Protection Authority (EPA), NSW - Commence SMRC Water & Wastewater Emergency Response and Crises Management Plan, and the SMRC Water & Wastewater Business Continuity Management Strategy Plan. - If required, contact an accredited emergency pollution incident management company. e.g. Transpacific Industries Group (Canberra & Bega).	Director Operations & Infrastructure 0427 018 846 EPA 13 15 55 24 hour emergency spills response 1800 774 557
Water & Wastewater Supervisor	- Implement traffic control plan and pedestrian management plan at Nimmitabel Wastewater Pumping Station No 2 and the Nimmitabel Wastewater Treatment Facility. - Implement environmental controls by placing absorption /containment barriers, sandbags between the pumping station site and the unnamed non-perennial water course to the west of the pumping station. - Implement water sampling and testing plan for the unnamed non-perennial water course.	

Water & Wastewater Supervisor / Manager Water & Wastewater	**General Procedure** **Minor Incident** - Engage a local contractor if required from the list of external resources with a vacuum pump to commence pumping procedures from the pump well for transportation and transfer to the Nimmitabel Wastewater Treatment facility Pasveer ditch. . Continue the process until such time as the surcharge ceases and or the failure is corrected. Then undertake clean-up, disinfection and incident reporting procedures. - Should for some reason the pump well not be accessible to the vacuum pump then remove the cover from manhole ZD1(asset plan D704-014D) and commence pumping from that location. If practical and when the pump well wastewater level has lowered, isolate the pump well from the drainage system by closing the pump well inlet gate valve. Continue the process until such time as the surcharge ceases and or the failure is corrected then undertake clean-up, disinfection and incident reporting procedures. **Major Incident** - In the event that local resources are unable to contain and manage the spill, maintain all reasonable attempts to use available vacuum pumps to remove wastewater from the pump well and drainage system and continue with spill containment and clean up measures until such time as an external resource with the capacity to manage a major pollution incident is engaged and arrives on site. - If necessary engage external resources to project manage and implement the emergency response, waste removal and remediation works until such time as the surcharge ceases and or the failure is corrected including clean-up, disinfection and incident reporting procedures.	

	Minor & Major Incident - At the completion of the clean-up and remediation works undertake a site inspection to confirm that the site has been successfully decontaminated. - Remove all temporary works and traffic control signs. - Undertake a debriefing with all staff and contractors and provide Council with an incident report for approval and forwarding to the EPA as required.	

Nimmitabel Wastewater Pumping Station No: 1 - Emergency Procedures

BUILDING	**NIMMITABEL WASTEWATER PUMPING STATION NO: 1**	**EVACUATION ROUTE**	**DEPENDANT ON EMERGENCY**
FLOOR	**GROUND LEVEL**	**ASSEMBLY POINT**	**MAIN ENTRANCE GATE**
WARDEN	**OPERATOR ON DUTY**	**LOCATION OF EVACUATION MAP**	**TBA**
FIRST AID PERSONNEL	**OPERATOR ON DUTY**	**COMMUNICATION CONTROL POINT**	**MAIN ENTRANCE GATE**
HOURS OF OCCUPANCY	**N/A**	**AFTER HOURS OCCUPANCY**	**OPERATOR ON CALL**

SPECIFIC HAZARDS	**N/A**	**SPECIFIC CONTROLS**	**N/A**
AFTER HOURS HAZARDS	**No Area Lighting**	**CONTROL MEASURES**	**Erect temporary flood lights**
EMERGENCY VEHICLES AREAS	**MAIN ENTRANCE GATE**		
POSSIBLE THREATS/TYPE OF EMERGENCIES	**WASTEWATER SPILL, ELECTRICAL FAILURE, MECHANICAL FAILURE, STRUCTURAL FAILURE/COLLAPSE, BUSH FIRE, FLOOD, BOMB THREAT**		

EVACUATION PROCEDURE	▪ Staff/Contractors or visitors become aware that there is an emergency, could be:- Wastewater spill Smoke Flooding Bomb Threat The emergency could be reported by staff, contractors or visitor. ▪ If evacuation is to take place, the Water & Wastewater Supervisor or Operator on-call for the pumping station is to take charge as the Emergency Warden. 7. Evacuate staff, contractors and visitors as per evacuation procedure 8. Ring 000. 9. If possible inform Management at Council Offices on 6455 1777 or mobile ▪ **Emergency warden to** 7. Direct staff, contractors or visitors to the assembly point on Bentley 8. If possible, put on appropriate PPE and ascertain type of spill or source of fire or flooding 9. Keep people are away from hazardous areas ▪ Emergency Warden to keep notes on activities including time for records, any possible review enquiry or investigation. ▪ If possible to use staff, contractors or visitors to close off access to prevent further persons entering the area and to only allow emergency services past the assembly point
METHOD OF ACCOUNTING FOR PERSONS	**Check names against attendance register/diary/site induction**

Properties Up To 5 Km Downstream Of Nimmitabel Wastewater Pumping Station No: 2

Revision:3 Dated5 April 2017

Parcel	Property Address	Name	Phone	Property Name	Postal Address	Town	Postcode
1756	38 Bentley St, Nimmitabel	P & E V Devir	6454 6453		37 Miller Street	Nimmitabel	2631
13635	2 Clarke St, Nimmitabel	Land & Property Gary Nichols	1300 886 235 6454 6351	 “Killarna”	PO Box 2215 “Killarna”	Dangar Nimmitabel	2309 2631
6011	Miller St, Nimmitabel	Country Rail Infrastructure Authority c/- Nimmitabel Mens Shed	1300 661 390		PO Box 215 PO Box 7	Parramatta Nimmitabel	2124 2631
1708	45 Clarke St, Nimmitabel	George T Dean			45 Clarke Street	Nimmitabel	2631
6907	Stanton St, Nimmitabel	T & P Fitzgerald	6458 6624		PO Box 4	Nimmitabel	2631

IT IS INTENDED THAT ONLY COUNCIL OFFICERS ARE TO INITIATE EXTERNAL CONTACTS

Initial reporting of all pollution incidents by the Public and Snowy Monaro Regional Council staff must be to the Council Offices.

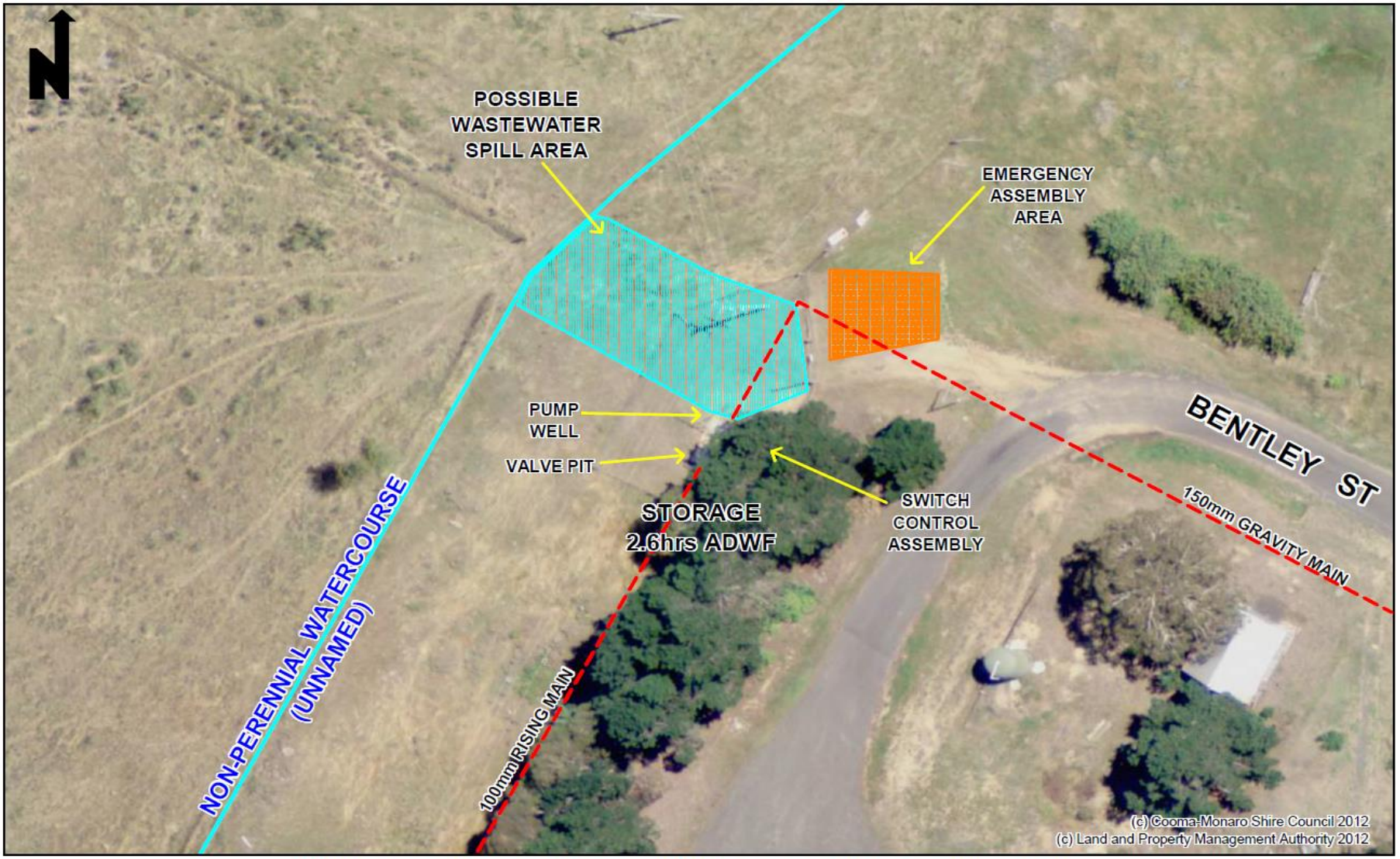
Contact: Business hours 02 6455 1777
After hours 1300 345 345, & 0427 406 668 or 0419 251 378

External Contacts for Nimmitabel Wastewater Treatment Scheme, Pollution Incident Response Management Plan

Current EPA mandatory requirement, is that the first four (4) agencies listed must be notified of any significant spill

Name	Contact	Business Contact
The Environment Protection Authority (EPA), NSW	131 555	131 555
Cooma Fire Brigade	000	6452 2037 0407299 008
NSW Health – Emergency Number – Senior EHO	0418 464 916	02 6080 8900
WorkCover	13 10 50	
Police, Fire, Ambulance Emergency	000	000
Police – Local Command	000	6452 0099
Rural Fire Service – Emergency Management Centre	000	6455 0455
SES	13 25 00	6455 4801
Essential Energy – Electricity Utility Control Centre	13 20 80	
NSW Health – Division of Analytical Laboratories (DAL)	02 9646 0222	
NSW Food Authority	1300 552 406	
Catchment Management Authority – Environment & Heritage	6452 1455	
Department of Primary Industries – Office of Water District Office Agriculture	6452 1455 6455 7200	

NIMMITABEL WASTEWATER TREATMENT SYSTEM - LOCATION PLAN
POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN



NIMMITABEL WASTEWATER PUMPING STATION No 2 - SITE PLAN
POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN


ASSET REGISTER CODING
ASSET TYPE
B - BEND
F - AIR VALVE
M - MANHOLE
S - STOP VALVE
DE - DRAIN END
ASSET PIPE MATERIAL
A - AC
C - CONCRETE
E - EARTHENWARE
P - POLYETHYLENE
U - uPVC
V - VITREOUS CLAY
- UNKNOWN
ASSET PIPE SIZE
N - Ø150
P - Ø225
R - Ø300
T - Ø375
V - Ø450
K - Ø500
L - Ø600
INDICATIVE PIPELINE
(F) PREFIXES
NO PREFIX - COOMA
Y - BREDBO
Z - NIMMITABEL
(G) SUFFIXES
TM - TRUNK MAIN
RM - RISING MAIN
ASSET REGISTER CODING EXAMPLE IS AS FOLLOWS
ASSET DESIGNATION COMPRISES BOTH MANHOLE IDENTIFICATION AND PIPE TYPE CODE
EG. ZA13ZA12-NU
ZA13
FLOW
ZA12
WHERE "Z" IS THE TOWN PIPE LOCATED
"A13" IS THE UPSTEAM MANHOLE
"A12" IS THE DOWNSTREAM MANHOLE
"N" IS THE PIPE DIAMETER
"U" IS THE TYPE OF PIPE
CAUTION
THESE PLANS ARE FOR ASSET RECORD PURPOSES ONLY & ARE NOT "WORK AS EXECUTED" CONSTRUCTION PLANS.
LEGEND
MANHOLE
PIPELINE
JUNCTION
RISING MAIN
PUMPING STATION
TREATMENT WORKS
STOP VALVE
BEND
AIR VALVE
0 50 100 m
1:1500
PUMPING STATION No. 2 ZPS2
NIMMITABEL WASTEWATER TREATMENT WORKS
BENTLEY
POWIS ST
CLARKE
YORK ST
BOYD ST
BOWLING CLUB
CHURCH
"OLD MILL"
JOINS SHEET 9
JOINS SHEET 11
JOINS SHEET 14
SHEET DETAIL
COOMA-MONARO SHIRE COUNCIL
NIMMITABEL WASTEWATER DRAINAGE ASSET PLANS
SHEET 10
PLAN NUMBER D704-010E

Pollution Incident Response Management Plan

Section 4 – Nimmitabel Pumping & Gravity Mains (Drainage System)

(This Plan should be read in conjunction with the SMRC Water & Wastewater Emergency Response and Crises Management Plan, and the SMRC Water & Wastewater Business Continuity Management Strategy Plan)

Snowy Monaro Regional Council 81 Commissioner Street Cooma NSW 2630 Licensed Site Location (License No 1392) Nimmitabel Township Nimmitabel NSW 2631	NGR: 704,546m 5,956,812m Map References: 149°17'05" Longitude 36° 13'55" Latitude South

Section 4 – Nimmitabel Wastewater Pumping Station No: 2

Overview of the Activities on site:

- The Nimmitabel Township drainage system has 8.2km of pipelines and 136 manholes that collect and divert wastewater from two (2) drainage zones to the Nimmitabel Wastewater Treatment Facility by means of pumping mains and gravity pipelines / mains.

A failure of the drainage system has the potential to cause major environmental harm, to impact on Bobundara Creek, Lake Williams and other unnamed (non-perennial) water course, but with insignificant public health consequences. Whilst the drainage system has physical containment and pollution control measures in place that will minimise the risk of a pollution incident occurring, it is recognised that there are residual risks of spillage / discharge to Bobundara Creek, Lake Williams and other unnamed (non-perennial) water course that could have major environmental consequences.

Operating Hours:

The drainage system operates continuously 24 hours per day, 7 days per week. The system is fully automated utilising Programmable Logic Controllers (PLC's) and radio SCADA (telemetry) systems for monitoring and emergency response.

The system is checked 7 days per week by trained wastewater operators and technicians.

Description of surrounding area:

The Nimmitabel wastewater system services the village of Nimmitabel. Nimmitabel is a small sized rural village of approximately 250 people.

The surrounding topography comprises sparsely tree covered undulating hills and Monaro grasslands. The village occupies approximately 200 hectares of built area of predominately single occupant dwellings. On either side of the Monaro Highway there area shops and accommodation properties.

Likelihood of a pollution incident occurring:

The combination of design, construction, contingency planning and long-term maintenance for this facility should result in a system where overflows occur only in exceptional circumstances). e.g. A catastrophic electrical or equipment failure / an earthquake damaging wastewater structures or underground pipelines.

Rare but with Major Environmental Consequences.

Refer to the Snowy Monaro Regional Council, Risk Assessment for Water Supply & Wastewater Workshop Report, Feb 2011.(appendix 'C' p1)

Hazards to human health & the environment at this site as a result of a failure of the Wastewater Pump Station No:2 and discharge of wastewater to the environment:

Risk assessments of the facility have concluded that in the event of a discharge or spillage of wastewater to the environment there would be **insignificant consequences to public and operational staff health but could have major environmental consequences.**

Hazard	Risk Rating Estimates		Contributing / Condition or Event	Action
	Likelihood	Consequence to the environment		
Wastewater discharged to Bobundara Creek, Lake Williams Creek or unnamed non perennial water course.	Rare	Major	Major failure of the electrical energy or electricity supply or associated cables and associated equipment.	Activate emergency power procedure. Activate spill clean-up procedure.
Wastewater discharged to Bobundara Creek, Lake Williams Creek or unnamed non perennial	Rare	Major	Major equipment failure due to mechanical problems.	Activate replacement pump

water course.				procedure. Activate spill clean-up procedure.
Wastewater discharged to Bobundara Creek, Lake Williams Creek or unnamed non perennial water course.	Rare	Major	Major structural failure. Damaged wastewater structures or underground pipelines	Activate drainage system isolation procedure. Activate spill clean-up procedure.

Pollution Prevention / Mitigation Measures:

The Nimmitabel drainage system has the following pollution prevention/mitigation measures incorporated into the facility design to minimise the risk of wastewater being spilled / discharged into Bobundara Creek, Lake Williams and various unnamed water course;

- both pumping stations (2) on the drainage system have primary and secondary power supply.
- standby generators can be connected to the pumping stations and to the Nimmitabel Wastewater Treatment Facility if a long duration electricity outage has been advised by Essential Energy. Permanent generator connection terminals will be installed to the pumping stations.
- the pumping stations are fitted with a duty and a standby pump arrangements, both capable of handling peak in-flows.
- the pumping station wet-wells provide emergency storage in the event of a system failure providing adequate time for emergency response.
- the pumping stations can be isolated from the drainage system if required to facilitate repairs or maintenance.
- the gravity drainage system can be used to store wastewater while repairs are undertaken on the drainage system. Should

repairs require a greater period of time than the system capacity for wastewater storage then a process would be put in place to vacuum pump wastewater from the drainage system and safely transport to an alternative part of the system.

Emergency & early warning systems

The drainage system has a range of early warning features. The system is fully automated utilising Programmable Logic Controllers (PLC's) and radio SCADA (telemetry) systems for monitoring and emergency response. The 24 hour alarm system notifies SMRC staff in the event of a system failure. In the event of a failure the telemetry system will keep attempting to make contact until such time as the call is answered.

The response time by SMRC staff in the event of a failure is less than one (1) hour.

Chemical Product Inventory & Material Handling Sheets (Hazardous)

Trade Name Substance	Solid/liquid/gas/powder	Maximum volume of storage	Location (marked on site plan)	Type of Containment
THERE ARE NO HAZARDOUS CHEMICALS RETAINED ON SITE				

Safety Equipment and Personal Protective Equipment		
Equipment	**Location**	**Personnel Trained / Certified in use if equipment**
3 Sets of Breathing Apparatus 1 Spare BA Cylinder	The Glen WWTF. Blue cabinet on south wall of the laboratory.	Water & Wastewater Supervisor – 0419 256 323 WTF Technician - 0409 669 576 Nimmitabel WTF Operator - 0427 406 668
Confined spaces access equipment Harnesses, lanyards, lifelines, portable Davit, lifting tripod etc.	The Glen WWTF. Electrical room Workshop	Water & Wastewater Supervisor – 0419 256 323 WTF Technician - 0409 669 576 Nimmitabel WTF Operator - 0427 406 668

Pollution Prevention Equipment Inventory / (On site and Off Site Resources)			
Type	**Amount**	**Equipment Location**	**Contact**
Spill Sock	100 meters	The Glen Workshop	Water & Wastewater Supervisor – 0419 256 323
Sewer cleaning equipment	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Waste water pumps	4	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Pressure washers	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Duel Control Sweeper	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Various tipper trucks	7	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323

Tractor drawn road broom	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Backhoe loader	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Volvo loaders	2	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Tractors	3	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323
Portable generators (towable)	1	SMRC Works Depot Polo Flat	Water & Wastewater Supervisor – 0419 256 323

Emergency Power/Diesel Generator Hire

Company Name	Generators Available	Contact details
Aggreko Generator Rentals	Sydney - up to 1250kVa	1800 808 109
Atlas Copco Sydney	Sydney – up to 1000kVa	13 34 20
Genlec Power Systems	Queanbeyan depot – up to 1000kVa	0416 314 010
SGH Southern Generators & Electrical	Queanbeyan – up to 1400kVa	1300 350 706
Genplus Hire & Sales	Queanbeyan – up to 1250kVa single unit, up to 20,000kVa combination	02 6297 2641 0412 663 566
Coates Hire	Fyshwick – up to 200kVa but can source larger items	02 6452 5460

SMRC staff responsible for the PIRMP

Position	Phone number	Responsibilities
Director Operations & Infrastructure	0427 018 846	Authorisation & activation of the PIRMP.
Manager Water & Wastewater	0409 440 733	Liaison with EPA NSW. Notification of other relevant authorities listed in this plan. Management of a Pollution Incident Response.
Water & Wastewater Technical Officer	0409 627 026	Management of a Pollution Incident Response.
Water & Wastewater Supervisor	0419 256 323	Management of a Pollution Incident Response.
Water & Wastewater Operator	0427 406 668	Management of a Pollution Incident Response.

Procedures to be followed by SMRC (the license holder) in notifying a pollution incident:

The procedures to be followed by SMRC in the event of a pollution incident are set out in the SMRC Water & Wastewater, Emergency Response & Crisis Management Plan, (ER&CMP) which includes the following EPA requirements,

Immediate notification of relevant authorities by the ER&CMP authorised officer – Manager Water & Wastewater:

13. (i) Call 000, 'notify only' Fire and Rescue, no immediate threat to life or serious threat to property. **NO EMERGENCY RESPONSE REQUIRED**

    (ii) Call 000 if the incident presents an immediate threat to human health or property. **EMERGENCY RESPONSE REQUIRED**

    (Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are the first responders, responsible for controlling and containing incidents).

14. The Environment Protection Authority (EPA), NSW – Environment Line on 13 15 55
15. NSW Health – Emergency Number 0418 464 916
16. WorkCover 13 10 50

Communications:

Persons through whom all communications are to be made and procedures to be followed for co-ordinating with the authorities and other persons that have been notified, including 'Property owners downstream on unnamed non perennial water course' and 'External Organisations' are set out in SECTION 7, COMMUNICATIONS MANAGEMENT TEAM of the SMRC (ER&CMP).

Training:

An annual desk top training exercise will be conducted with the staff responsible for the management and operation of the PIRMP. The support contractors / clean-up companies listed in the PIRMP will be invited to participate in the desk top exercise. A record of the exercise including the names of participants and issues raised will be maintained for each exercise and used to initiate improvements in the PIRMP.

An annual field training exercise will be conducted with the staff responsible for the management and operation of the PIRMP including the use of a range of equipment that could be required in a real event. A record of the exercise including the names of participants and issues raised will be maintained for each exercise and used to initiate improvements in the PIRMP.
The training exercise record can be found in SMRC's record management system. Container CS502 – POLLUTION INCIDENCE RESPONSE MANAGEMENT.

Action Plan – in response to possible or actual effluent overflow from Nimmitabel Wastewater Treatment Facility

SMRC Responsibility	Actions	Notes and Contact Details
Council staff receiving report	Report from the Public, Council staff or telemetry system - Obtain details of spill & location - Obtain contact details of person reporting the spill	Report details of the spill to Wastewater Operator on call 0427 406 668
Wastewater Operator on Call	Notify Water & Wastewater Supervisor	Report details of the spill to Water & Wastewater Supervisor 0419 256 323

Water & Wastewater Supervisor	Carry out Site Specific Risk Assessment and Toolbox Meeting to identify; - Assess incident / take photographs to document the overflow / spill - Determine the cause of the failure / spill Electrical Failure Mechanical Failure Blockage Structural Failure - Estimate of time to return the rising main or gravity main to full service, if practical. - Possible environmental concerns e.g. effluent overflows to the environment. - Extent of work to be carried out and if any hazards exist e.g. phone/power cables, gas &/or water, storm water drains etc. - If additional resources/materials are required e.g. personnel, suitable barricades, sandbags, sludge pump, vacuum truck etc. - Conduct WHS risk assessment. - Personal Protective Equipment & Clothing (PPEC). - Manual handling issues. - Traffic control methods/issues (where necessary). - Note prevailing weather conditions and obtain a 5 day forecast. - Complete appropriate forms e.g. Confined Space Permit, Traffic Control Plan (TCP), Work Method Statement (WMS) and Environmental Control Plans. -	Site Specific Risk Assessment 250.2017.414.1 Record of Toolbox Meeting 250.2017.334.1
Water & Wastewater Supervisor	- Carry out site induction and/or toolbox meeting for all workers involved with the incident on the site (both council employees and contractors) so everyone is aware of their responsibilities and what work is to be carried out.	

Water & Wastewater Supervisor	Notify the Manager Water & Wastewater that the system failure / spill could have major environmental consequences. - Provide an estimate of time to return the rising main or gravity main to full service, if practical. - Confirm **minor incident** that can be managed by SMRC staff and / or local contractors. - Confirm **major incident** requiring the services of an accredited emergency pollution incident management company.	Contact Manager Water & Wastewater 0409 440 733
Manager Water & Wastewater	In the event of a **major incident** notify Director Operations & Infrastructure who will authorise and activate the PIRMP - Notify The Environment Protection Authority (EPA), NSW - Commence SMRC Water & Wastewater Emergency Response and Crises Management Plan, and the SMRC Water & Wastewater Business Continuity Management Strategy Plan. - If required, contact an accredited emergency pollution incident management company. e.g. Transpacific Industries Group (Canberra & Bega).	Director Operations & Infrastructure 0427 018 846 EPA 13 15 55 24 hour emergency spills response 1800 774 557
Water & Wastewater Supervisor	- Implement traffic control plan and pedestrian management plan as required for the incident location and any other part of the drainage system impacted upon by the incident response measures. - Implement1 environmental controls by placing absorption /containment barriers, sandbags, earth bunds, between the incident site and any water course or stormwater drainage system. Install plugs to stormwater pipelines as necessary - Implement a water sampling and testing plan for any water course impacted upon by the spill, if required.	

Water & Wastewater Supervisor / Manager Water & Wastewater	**General Procedure** **Minor Incident** - Clear any blockage in the pipe by rodding or high pressure water jetting as appropriate. - Excavate pipeline / main and remove blockage. - Repair burst rising main or collapsed gravity main as appropriate. - Engage a local contractor if required from the list of external resources with a vacuum pump to commence pumping procedures from the incident site for transportation and transfer to another part of the drainage system. All liquid and disinfectant used in the clean-up procedures must be captured vacuumed up and returned to the drainage system. Continue the process until such times as the surcharge ceases and or the failure is corrected. Then undertake clean-up, disinfection and incident reporting procedures.. **Major Incident** - In the event that local resources are unable to contain and manage the spill, maintain all reasonable attempts to use available vacuum pumps to remove wastewater from the pump well and drainage system and continue with spill containment and clean up measures until such time as an external resource with the capacity to manage a major pollution incident is engaged and arrives on site. - If necessary engage external resources to project manage and implement the emergency response, waste removal and remediation works until such time as the surcharge ceases and or the failure is corrected including clean-up, disinfection and incident reporting procedures. **Minor & Major incident** - At the completion of the clean-up and remediation works undertake a site inspection to confirm that the site has been successfully decontaminated. - Remove all temporary works and traffic control signs. Undertake a debriefing with all staff and contractors and provide Council with an incident report for approval and forwarding to the EPA as required.	

IT IS INTENDED THAT ONLY COUNCIL OFFICERS ARE TO INITIATE EXTERNAL CONTACTS

Initial reporting of all pollution incidents by the Public and Snowy Monaro Regional Council staff must be to the Council Offices.

Contact: Business hours 02 6455 1777
After hours 1300 345 345, & 0427 406 668 or 0419 251 378

External Contacts for Nimmitabel Wastewater Treatment Scheme, Pollution Incident Response Managemet Plan

Current EPA mandatory requirement, is that the first four (4) agencies listed must be notified of any significant spill

Name	Contact	Business Contact
The Environment Protection Authority (EPA), NSW	131 555	131 555
Cooma Fire Brigade	000	6452 2037 0407299 008
NSW Health – Emergency Number – Senior EHO	0418 464 916	02 6080 8900
WorkCover	13 10 50	
Police, Fire, Ambulance Emergency	000	000
Police – Local Command	000	6452 0099
Rural Fire Service – Emergency Management Centre	000	6455 0455
SES	13 25 00	6455 4801
Essential Energy – Electricity Utility Control Centre	13 20 80	
NSW Health – Division of Analytical Laboratories (DAL)	02 9646 0222	
NSW Food Authority	1300 552 406	
Catchment Management Authority – Environment & Heritage	6452 1455	
Department of Primary Industries – Office of Water District Office Agriculture	6452 1455 6455 7200	

NIMMITABEL WASTEWATER TREATMENT SYSTEM - LOCATION PLAN
POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

Procedure

Name of Procedure	**Clearing Blockages in Wastewater Drainage Main Pipelines**		
Document Register ID	250.2017.363.1	**Date Approved**	05/12/2017
Document Author	Water & Wastewater Technical Officer		
Authorised by	Director Operations & Infrastructure		
Applicable to	Wastewater Staff		
Purpose	To clear wastewater drainage main pipeline blockages in a safe and efficient manner.		
Frequency	This procedure will be followed as required.		
Hazard Identification	Various hazards may be identified in the undertaking of this procedure. All hazards associated with each circumstance should be recorded, assessed and controlled in accordance with Councils enterprise risk management system.		
Level of risk	Various levels of risk may be determined in the analysis of identified hazards. Levels of risk identified in each circumstance should be managed in accordance with Councils enterprise risk management system.		
PPE required for procedure	Various PPE may be required and should be considered on an individual assessment when undertaking this procedure. The following is required to undertake this procedure: (delete those that are not necessary)		

DRAFT

1. Carry out Site Specific Risk Assessment & Toolbox Meeting to identify:

   1.1 Possible environmental concerns e.g. effluent overflows;
   1.2 Extent of work to be carried out and if any hazards exist e.g. phone/power cables, gas &/or water, storm water drains etc.;
   1.3 If additional resources/materials are required e.g. suitable barricades, sandbags, sludge pump, extra persons etc.;
   1.4 Personal Protective Equipment & Clothing;
   1.5 Manual handling issues;
   1.6 Traffic control methods/issues (where necessary);
   1.7 Complete appropriate forms e.g. Worksite Specific Risk Assessment Checklist, Toolbox Meeting form, Traffic Control Plan.

2. Carry out site induction and/or toolbox meeting for all workers involved with on the site (both council employees and contractors) so everyone is aware of their responsibilities and what work is to be carried out.

3. Implement traffic control plan and pedestrian management plan if required;

4. Implement environmental controls if required.

5. General Procedure:

   5.1 Locate the upstream and downstream manholes of the blockage;
   5.2 Remove the cover of the downstream manhole (if possible);
   5.3 If access can't be obtained from a downstream manhole, gain access at the first upstream manhole. Also, record the inaccessibility of any manhole for future investigation or repairs;
   5.4 Where manholes/pits are to be open for a period of time, they shall have a barricade erected around them. Hazard lights are to be used with the barricades where they are required between dusk and dawn;
   5.5 Ensure adequate ventilation is provided and the confined space guidelines are followed should any person(s) be required to enter manholes;
   5.6 Clear the blockage as per point "7" or "8" below of this procedure;

5.7 Once clear flow has been re-established, hose down any manholes affected by the blockage to remove any wastes that may have been left;
5.8 Replace all covers that had been removed during the course of the work;
5.9 If an overflow has occurred, any pooled effluent should be pumped into the nearest manhole;
5.10 Wash down and disinfect any polluted areas;
5.11 All reasonable measures should be taken to contain and prevent overflows (and wash down water) from entering waterways and stormwater drains;
5.12 Solid wastes should be placed in a waste drum and dispose of at the Glen Wastewater Treatment Facility (most cases) or Cooma Landfill (when it cannot be handled by the Glen).

6. Clearing by Rodding:

6.1 Insert the rod and attach the appropriate cutting head or augers;
6.2 Place the pipe guide & auger into the pipeline;
6.3 Place channel rakes in channel of downstream manhole to catch debris;
6.4 Push the rods up the pipeline until the blockage is encountered;
6.5 Remove from back of truck and attach the rod handle and screw the auger into the blockage;
6.6 Move the rod back and forward to dislodge the blockage;
6.7 Retrieve the blockage and dispose of as in “5” above.

7. Clearing by High Pressure Water Jetting:

7.1 Locate an appropriate water supply for the Restorer e.g. a hydrant, water tank, etc.;

7.2 Operate the Restorer in accordance with the operator’s manual to remove the blockage;
7.3 Use a channel rake to collect any solid waste that was dislodged and dispose of as in “6” above
7.4 Undertake a CCTV inspection of the affected Choked asset as per the CCTV Inspection Procedure.

8. Final inspection of work site:

8.1 Ensure site is clean, disinfect if necessary and safe;

8.2 Where overflows have occurred further inspections at a later date may be required to ensure that the area has been successfully decontaminated.

9. Remove traffic control signs if used.

10. Complete Work Order details.
11. This procedure should be read in conjunction with the following documents:

Documentation

List the name and document reference number of any other document referred to in this document, including any related policies and procedures

250.2016.63.1 Work Wear Clothing & Personal Protective Equipment Procedure

250.2016.61.1 SMRC 61 – Health & Safety Policy

250.2016.228.1 Traffic control Plan – Implement Procedure

250.2017.334.1 Record of Toolbox Meeting Form

250.2017.333.1 Work Method Statement

250.2017.414.1 Site Specific Risk Assessment