



GEOLYSE

**POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN
BLAYNEY SEWAGE TREATMENT SYSTEM**

**PREPARED FOR
BLAYNEY SHIRE COUNCIL**

AUGUST 2012

**POLLUTION INCIDENT RESPONSE
MANAGEMENT PLAN**
BLAYNEY SEWAGE TREATMENT SYSTEM

PREPARED FOR:

BLAYNEY SHIRE COUNCIL

AUGUST 2012



POSTAL ADDRESS PO Box 1963
LOCATION 154 PEISLEY STREET
TELEPHONE 02 6393 5000
EMAILORANGE@GEOLYSE.COM

ORANGE NSW 2800
ORANGE NSW 2800
FACSIMILE 02 6393 5050
WEB SITEWWW.GEOLYSE.COM

Report Title:	<i>Pollution Incident Response Management Plan</i>
Project:	<i>Blayney Sewage Treatment System</i>
Client:	<i>Blayney Shire Council</i>
Report Ref.:	<i>212247_PIRMP_002_Blayney_STP.docx</i>
Status:	<i>Final</i>
Issued:	<i>31 August 2012</i>

Geolyse Pty Ltd and the authors responsible for the preparation and compilation of this report declare that we do not have, nor expect to have a beneficial interest in the study area of this project and will not benefit from any of the recommendations outlined in this report.

The preparation of this report has been in accordance with the project brief provided by the client and has relied upon the information, data and results provided or collected from the sources and under the conditions outlined in the report.

All information contained within this report is prepared for the exclusive use of Blayney Shire Council to accompany this report for the land described herein and is not to be used for any other purpose or by any other person or entity. No reliance should be placed on the information contained in this report for any purposes apart from those stated therein.

Geolyse Pty Ltd accepts no responsibility for any loss, damage suffered or inconveniences arising from any person or entity using the plans or information in this study for purposes other than those stated above.

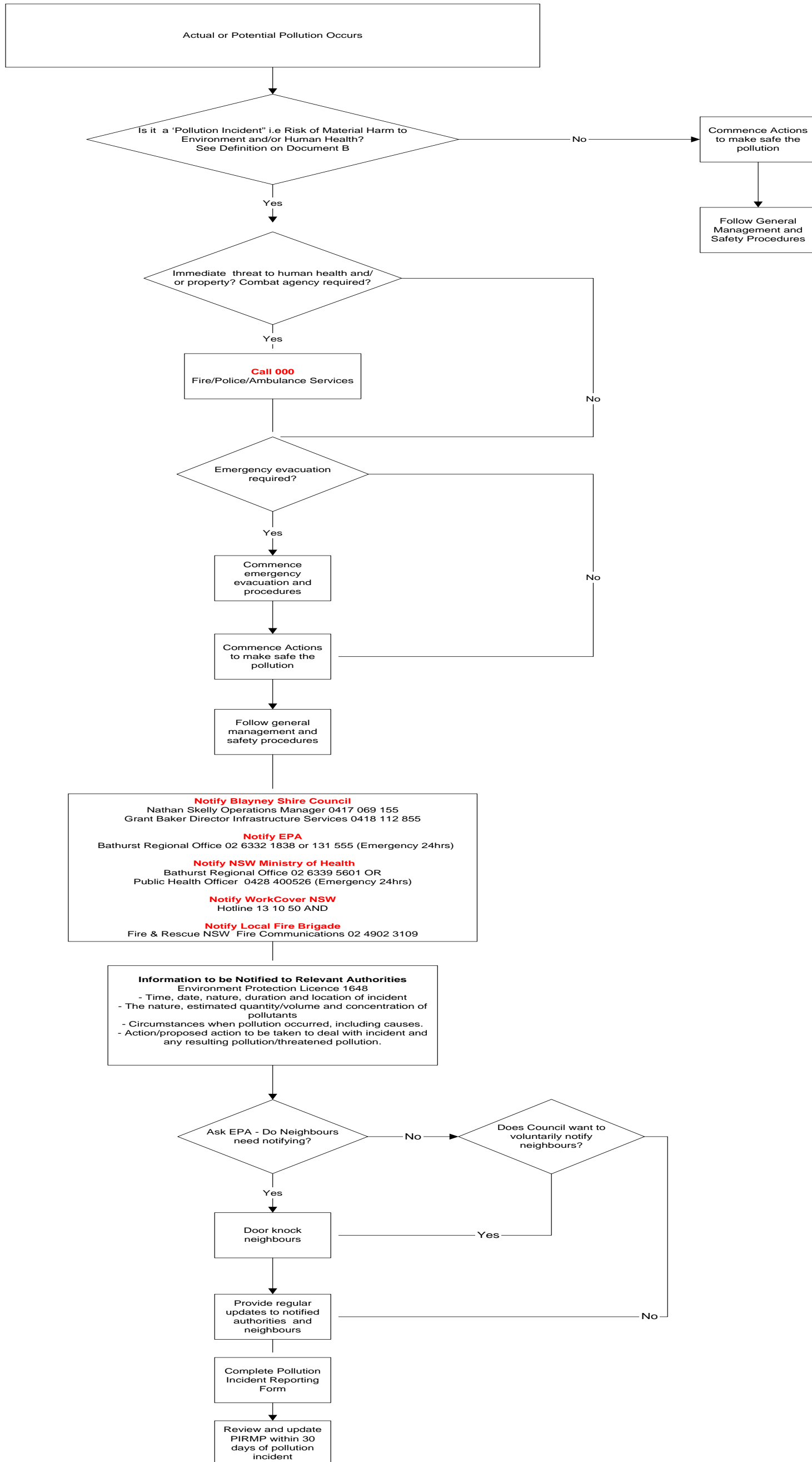
TABLE OF CONTENTS

1.0 POLLUTION INCIDENT CLASSIFICATION, RISK ASSESSMENT AND CONTRIBUTING FACTORS	3
2.0 DOCUMENT A - POLLUTION INCIDENT DECISION FLOW CHART	4
3.0 DOCUMENT B – POLLUTION INCIDENT EMERGENCY CONTACT DETAILS	5
3.1 DEFINITION OF POLLUTION INCIDENT	5
3.2 NOTIFICATION OF POLLUTION INCIDENT	5
3.2.1 NOTIFICATION SPEED OF RESPONSE	5
3.2.2 NOTIFICATION OF RELEVANT AUTHORITIES.....	5
3.2.3 INFORMATION TO BE NOTIFIED.....	6
3.2.4 EPA POWERS OF DIRECTION & NOTIFICATION OF NEIGHBOURS	6
4.0 POLLUTION INCIDENT REPORTING FORM.....	7
5.0 PIRMP TESTING & UPDATE REGISTER.....	8
6.0 STAFF TRAINING REGISTER.....	9
TABLES	
Table 1.1 – Pollution Incident Classification, Risk Assessment and Contributing Factors	3

1.0 POLLUTION INCIDENT CLASSIFICATION, RISK ASSESSMENT AND CONTRIBUTING FACTORS

Table 1.1 – Pollution Incident Classification, Risk Assessment and Contributing Factors

Description of Pollution Incident	Likelihood	Impact	Contributing Factors
Wet Weather Overflow from the reticulation system during wet weather.	Low Refer to Blayney Sewerage Scheme Sewer Overflow Investigations Report (Section 3)	Low Refer to Blayney Sewerage Scheme Sewer Overflow Investigations Report (Section 4)	Refer to Blayney Sewerage Scheme Sewer Overflow Investigations Report (Section 3.1)
Dry Weather Overflow from the reticulation system during dry weather.	Low Refer to Blayney Sewerage Scheme Sewer Overflow Investigations Report (Section 3)	Low Refer to Blayney Sewerage Scheme Sewer Overflow Investigations Report (Section 4)	Refer to Blayney Sewerage Scheme Sewer Overflow Investigations Report (Section 3.1)
Wet Weather Bypass at the sewage treatment plant (STP) and is when untreated sewage bypasses the sewage treatment process and discharges to the Belubula River during wet weather.	Low	High	Prolonged periods of heavy rain, lack of pond and site maintenance and/or a mechanical failure of plant and equipment.
Dry Weather Bypass at the STP and is when untreated sewage bypasses the sewage treatment process and discharges to the Belubula River during dry weather.	Low	High	Lack of pond and site maintenance and/or a mechanical failure of plant and equipment.
Pond failure at the STP.	Low	Low	Prolonged periods of heavy rain, lack of pond and site maintenance and/or a mechanical failure of plant and equipment.
Mechanical failure at the STP results in discharge of untreated sewage.	Low	High	Fire damage or poor maintenance of plant and equipment. Prolonged periods of heavy rain.
Mechanical failure at the STP results in offensive odour from the premises.	Low	Low	Fire damage or poor maintenance of plant and equipment.
Inadequate chemical storage.	Low	Medium	Human error. Chemical fire accelerated by high winds, dry weather, prolonged periods of high temperatures and low humidity.
Acts of vandalism or target of terrorist activity at the STP.	Low	Medium	Increased risk during hours of closure
Treated effluent transfer pipeline breakage.	Low	Low	Poor maintenance of plant and equipment. Flows exceeding pipe and pump capacity
Exceed Environment Protection Licence (EPL) discharge limits to the Belubula River.	Low	Low	Prolonged periods of heavy rain and mechanical failure of plant and equipment

2.0 DOCUMENT A - POLLUTION INCIDENT DECISION FLOW CHART


3.0 DOCUMENT B – POLLUTION INCIDENT EMERGENCY CONTACT DETAILS

3.1 DEFINITION OF POLLUTION INCIDENT

A pollution incident is required to be notified if there is a risk of 'material harm to the environment', which is defined in section 147 of the *POEO Act 1997*:

- “(a) *harm to the environment is material if:*
- i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or*
 - ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, and*
- (b) *loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.”*

3.2 NOTIFICATION OF POLLUTION INCIDENT

3.2.1 Notification Speed of Response

The requirement for notification of a pollution incident has changed from 'as soon as practicable' to 'immediately'. In short, 'immediately' means 'promptly without delay', but it does not mean undertaking notification ahead of doing what is necessary to make safe.

3.2.2 Notification of Relevant Authorities

Where the pollution incident causes or threatens material harm to the environment or human health, all the following authorities must be notified by the Site Supervisor:

Notification of Relevant Authorities

1. Emergency Call Services

- **Emergency Hotline Number (24 hours)** **000***

*The Site Supervisor should call 000 if the incident presents an immediate threat to human health and/or property and a combat agency is required (i.e. NSW Fire and Rescue, NSW Ambulance Service, NSW Police Force) and then notify all other parties below including NSW Fire and Rescue via a local telephone number.

2. Blayney Shire Council

- Nathan Skelly, Operations Manager, Blayney Shire Council 0417 069 155
- Grant Baker, Director Infrastructure Services, Blayney Shire Council 0418 112 855

3. The Environment Protection Authority (EPA)

- Bathurst Regional Office 02 6332 1838
- Emergency Hotline Number (24 hours) 131 555

4. NSW Ministry of Health (via Public Health Units)

- Bathurst Regional Office 02 6339 5601
- Public Health Officer on Call (24 hours) 0428 400 526

5. WorkCover NSW

- Hotline Number 13 10 50

6. Fire and Rescue NSW

- Fire Communications 02 4902 3109**

**If there is no immediate threat to human health and/or property i.e. a combat agency is not required, then the Site Supervisor is still required to follow that outlined above except for dialling 000.

3.2.3 Information to be Notified

Under section 150 of the *POEO Act 1997*, the information about a pollution incident that must be notified to relevant authorities is:

- The time, date, nature, duration and location of the incident;
- The location of the place where pollution is occurring or is likely to occur;
- The nature, the estimated quantity or volume and the concentration of any pollutants involved, if known;
- The circumstances in which the incident occurred, including the cause of the incident, if known;
- The action taken or proposed to be taken to deal with the incident and any resulting pollution or threatened pollution, if known; and
- Other information prescribed by the regulations.

Notification is required by the Site Supervisor immediately after a pollution incident becomes known. Any information required that is not known at the time the incident is notified must be provided when it becomes known.

3.2.4 EPA Powers of Direction & Notification of Neighbours

Where the pollution incident causes or threatens material harm to the environment or human health, the EPA is notified in accordance with **Section 3.2.2**.

Once the EPA is notified, it is then for the EPA to determine whether commercial, industrial and residential neighbours of the site need to be contacted by Council and informed of the circumstances of the incident and what action is being taken in response to it. If deemed necessary, the EPA then has powers to formally direct Council to notify the neighbours of the site.

Irrespective of whether the EPA directs Council to notify neighbours and depending on the circumstances of the particular pollution incident, Council may at their own discretion voluntarily choose to notify neighbours.

4.0 POLLUTION INCIDENT REPORTING FORM

INCIDENT NO:

TIME:

DATE:

DURATION OF INCIDENT:

NATURE OF INCIDENT:

WEATHER CONDITIONS:

THE LOCATION OF THE PLACE WHERE POLLUTION IS OCCURRING OR IS LIKELY TO OCCUR:

THE NATURE, THE ESTIMATED QUANTITY OR VOLUME AND THE CONCENTRATION OF ANY POLLUTANTS INVOLVED (IF KNOWN):

THE CIRCUMSTANCES IN WHICH THE INCIDENT OCCURRED, INCLUDING THE CAUSE OF THE INCIDENT (IF KNOWN):

THE CORRECTIVE ACTION TAKEN OR PROPOSED TO BE TAKEN TO DEAL WITH THE INCIDENT AND ANY RESULTING POLLUTION OR THREATENED POLLUTION (IF KNOWN):

HAS COUNCIL BEEN NOTIFIED?	YES	NO
HAS ENVIRONMENT PROTECTION AUTHORITY (EPA) BEEN NOTIFIED?	YES	NO
HAS NSW MINISTRY OF HEALTH (VIA PUBLIC HEALTH UNITS) BEEN NOTIFIED?	YES	NO
HAS WORKCOVER NSW BEEN NOTIFIED?	YES	NO
HAS LOCAL FIRE AND RESCUE NSW BEEN NOTIFIED?	YES	NO

HAS EPA DIRECTED COUNCIL TO NOTIFY NEIGHBOURS?	YES	NO
IF NOT, HAS COUNCIL VOLUNTARILY NOTIFIED NEIGHBOURS?	YES	NO

Signature:	Date:
Site Supervisor, Blayney Shire Council	
Signature:	Date:
Director Infrastructure Services, Blayney Shire Council	

5.0 PIRMP TESTING & UPDATE REGISTER

Date	Routine Testing	Routine Update	Post Incident Updates	5 New Copies Distributed?

6.0 STAFF TRAINING REGISTER

Date	Staff Member	Brief Description of Training Task