



Cowra
Council

Pollution
Incident
Response
Management
Plan

August

2022

This is the Supporting Statement for the Pollution Incident Response Management Plan (PIRMP). The PIRMP is a functional document. It is designed to assist personnel at Councils Gravel Quarries to correctly identify pollution incidents and detail the procedures for the response and reporting of a pollution incident.

Gospel Oak
Quarry

EPL 20809

Table of Contents

FOREWORD 3

INTRODUCTION..... 4

1.1 Purpose..... 4

1.2 Definition of Pollution Incident..... 4

1.3 Identified Pollution Incident Risks 4

SITE OVERVIEW 5

2.1 Site Overview..... 5

2.2 Site Characteristics 5

2.3 Site Supervision and Control 6

2.4 Site Safety Equipment..... 6

RISK MANAGEMENT AND PRE-EMPTIVE ACTIONS..... 7

3.1 Introduction..... 7

3.2 Pre-Emptive Actions..... 7

3.2.1 Surface Fires..... 7

3.3 Potential Pollution Incidents 7

3.4 Likelihood, Impact and Contributing Factors to Pollution Incidents Occurring..... 8

3.4.1 Surface Fires..... 8

3.4.2 Any Other Incident or Observation that Could Potentially Pose an Immediate Environmental Hazard Outside Normal Operating Conditions..... 8

PIRMP 9

4.1 Definition of Pollution Incident..... 9

4.2 Notification of Pollution Incident..... 9

4.2.1 Notification Speed of Response 9

4.2.2 Notification of Relevant Authorities..... 10

4.2.3 Information to be Notified 11

4.3 Actions to be Taken During or Immediately After a Pollution Incident 11

4.4 EPA Powers of Direction and Notification of Neighbours..... 11

4.5 Identification of Neighbours 12

IMPLEMENTATION 13

5.1 Staff Training..... 13

5.2 Review and Update Pirmp 13

DRAWINGS..... 14

Gospel Oak Locality Plan..... 15

Gospel Oak Evacuation and Aerial Plan 16

Gospel Oak Neighbour Details..... 17

APPENDIX A 18

Document Control Summary..... 19

Desktop Exercise Test Summary..... 19

Document A - Pollution Incident Decision Flow Chart..... 20

Pollution Incident Response Reporting Form 21

Memorandum of Changes..... 23

Map of Pollution Monitoring Site for EPA License Condition..... 24

APPENDIX B 25

Council’s Environmental Risk Assessment 25

Foreword

This is the Supporting Statement for the Pollution Incident Response Management Plan (PIRMP). The PIRMP is a functional document. It is designed to assist personnel at Councils Gravel Quarries to correctly identify pollution incidents and detail the procedures for the response and reporting of a pollution incident.

The structure and scope of this Supporting Statement and PIRMP reflects the requirements of the Environmental Protection Authority's *Guidelines: Preparation of pollution incident response management plans, March 2012* and in doing so embodies the principles of best practice environmental management.

Utilisation of this PIRMP aims to improve, monitor and demonstrate environmental performance. If you have any suggestions for amendments, additions or improvements, please discuss these with your supervisor.

E.M. Tedeschi

Cowra Shire Council
Manager Cowra Works

Introduction

1.1 PURPOSE

This Supporting Statement and PIRMP have been prepared in accordance with the *Protection of the Environment Legislation Amendment Act 2011 (POELA Act)* and reflect the requirements specified in the Environment Protection Authority's (EPA's) *Guidelines: Preparation of pollution incident response management plans, March 2012*.

The PIRMP details:

Procedures for notifying a pollution incident to relevant persons;
Actions to be taken to reduce and/or control pollution; and
Procedures for co-ordinating those notified and any action taken in combating the pollution.

1.2 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*:

Harm to the environment is material if:

- “(a) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or
it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and
- (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.”

1.3 IDENTIFIED POLLUTION INCIDENT RISKS

The primary potential hazards to human health or the environment associated with the activity undertaken at this site – i.e. 'Pollution Incidents' - include the following:

Any incident or observation that could potentially pose an immediate environmental hazard outside normal operating conditions. Identification of any failure of an environmental protection system;
Acts of vandalism or target of terrorist activity; or
Any other incident or observation that could potentially pose an immediate environmental hazard outside normal operating conditions.

Site Overview

2.1 SITE OVERVIEW

Gospel Oak Quarry is owned by Cowra Shire Council. It is estimated that the site has 100 year lifespan. Gospel Oak Quarry currently operates under the Council of the Shire of Cowra approval, issued 25 October 2011.

The Environment Protection Authority (EPA) has not yet issued an Environment Protection License For this quarry.

2.2 SITE CHARACTERISTICS

Gospel Oak Quarry is located approximately 24km north-north-east of Cowra. It comprises DP 750368 (Lot 173) – approx 22.3 Hectares.

| | | |
|-----------------|------------|-----------|
| GPS Coordinates | 148.714555 | Longitude |
| | -33.602278 | Latitude |

The area surrounding the facility to the north, south, east and west is predominantly rural pasture land. The nearest residential property to the facility is located approximately 1.2km north west of the quarry.

Access to Gospel Oak Quarry is via George Russell Drive. George Russell Drive is a two lane sealed road. From George Russell Drive the quarry is accessible via a primary sealed road to the amenity building. Within the quarry, access to the quarry face and top of the gravel deposit is via formed gravel access roads. More recently a storm water storage area has been formed on the northern most point of the quarry floor.

Gospel Oak quarry is fenced along all boundaries with a standard rural fence with a locked gate at the entrance. All visitors are required to be inducted and must sign the attendance register located in the microwave adjacent to the amenity building.

The storage will then be monitored for TSS, pH and oil and grease and a record kept. The aim being to discharge regularly, once all parameters are proven within limits, to maintain capacity for larger storm events.

The quarry floor has been engineered to direct runoff to the northern most edge. A runoff interception dam of 500m³ has been constructed to catch and allow treatment of runoff prior to discharge offsite. The neighbour to the NW has a dam that they have asked be maintained with runoff from the site as was previous before occupation.

There is limited remnant natural vegetation over the site. Longer term plans are in place to improve overall amenity as outlined in the EIS.

2.3 SITE SUPERVISION AND CONTROL

Gospel Oak quarry is only open for business between 7:00am and 4:00pm weekdays and as required on Saturdays. The quarry is closed on Sundays, Good Friday and Christmas Day. Access to the site outside these hours is not permitted.

Gospel Oak quarry is visited by Councils production Manager daily during hours of operation to ensure compliance and safety requirements are met.

The front gate is locked when the quarry is not in use, and when crushing contractors are onsite producing gravel.

Entry is by mutual invitation and all new visitors are inducted.

Entry to and exit from the quarry are recorded in the visitors book. Lone workers must report to their employer regularly as outlined in the SWMS for same.

2.4 SITE SAFETY EQUIPMENT

Gospel Oak Quarry and working area is devoid of any combustible material.

All work vehicles are filled from a mobile tanker and other consumables are bought in as necessary on same vehicle for regular servicing.

To manage leaks, Spill Sorb (spill kit) and Oilgone are available onsite. Where Spill Sorb is used, the used material is collected and then deposited in Council's landfill. In the case of Oilgone, no further treatment or removal is required provided the product is applied liter for liter. In the event of a chemical spill, PPE is provided for onsite staff which consists of safety goggles, respirator face masks and protective gloves.

Risk Management and Pre-emptive Actions

3.1 INTRODUCTION

The following section outlines current operational procedures and design intended to minimise and manage risk. Members of staff working on site are responsible for being aware and notifying the Production Manager of any potential pollution incidents on the premises. All management procedures detailed within the Local Environmental Management Plan (LEMP) must be adhered to.

3.2 PRE-EMPTIVE ACTIONS

3.2.1 Surface fires

The potential for fires to occur at the site are controlled by:

- A fence to prevent unauthorised access and acts of vandalism;
- Maintaining machinery in good working order to minimise risk of sparks;
- Smothering immediately with soil;
- Access to on-site firefighting equipment (mobile tanker when available);

3.3 POTENTIAL POLLUTION INCIDENTS

The potential main hazards to human health or the environment – i.e. ‘*Pollution Incidents*’ - associated with the activity undertaken at this site include the following:

- Surface fires;
- Mixing of quarry products and storm water;
- Identification of any failure of an environmental protection system;
- Acts of vandalism; or
- Any other incident or observation that could potentially pose an immediate environmental hazard outside normal operating conditions.

3.4 LIKELIHOOD, IMPACT AND CONTRIBUTING FACTORS TO POLLUTION INCIDENTS OCCURRING

Incidents can be classified as being of low, medium or high risk of occurring (likelihood) based on the past history of the facility, an assessment of management procedures, staff training and site layout.

The impact of an incident can be classed as low, medium or high based on the potential extent of off- site harm to humans and/or the environment.

Appendix B includes Council's Mine Safety Management System Risk assessments

3.4.1 Surface fires

Medium Likelihood – The likelihood of a fire within the area is relatively high, due to the surrounding rural area.

Medium Impact – It is probable that a fire of this nature should be able to be contained due to the procedures and equipment in place. Therefore, the impact is classed as medium.

Contributing Factors – Factors which may increase fire risk include high winds, dry weather, prolonged periods of high temperatures and low humidity. Human errors made during operation at the quarry and the poor maintenance of plant and equipment may spark a fire.

3.4.2 Any other incident or observation that could potentially pose an immediate environmental hazard outside normal operating conditions

Low Likelihood – The site has significant environmental protection measures and inspection schedule.

Low Impact – The site has significant environmental protection measures and inspection schedule which are likely to contain and prevent the immediate spread of environmental hazards outside the premises even outside of normal operating conditions.

Contributing Factors – e.g.;

- Overturned vehicle / fuel spill
- Hose failure
- Tank failure
- Human error
- Illegal dumping

4.1 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:

Harm to the environment is material if:

- “(a) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or
it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and
- (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.”

4.2 NOTIFICATION OF POLLUTION INCIDENT

4.2.1 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.

4.2.2 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:

1. Emergency Call Services

- Emergency Hotline Number (24 hours) 000*

2. Cowra Shire Council

6340 2000

- Manager Cowra Works (Mick Tedeschi) 0427 436 730
- Production Manager (Kris Beaumont) 0427 277 049

3. The Environment Protection Authority (EPA)

131 555

4. SafeWork NSW

- Hotline Number 13 10 50

5. Fire and Rescue NSW

- Cowra Rural Fire Service 02 6363 6666**

* The Production Manager/operator present in quarry at the time 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.

** 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 dialing 000.

A summary of the above pollution incident notification procedure is provided in **Document A** – Pollution Incident Decision Flow Chart in **Appendix A**

4.2.3 Information to be notified

Under section 150 of the *POEO Act 1997*, the information about a pollution incident that must be notified 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.

A Pollution Incident Reporting Form is produced in **Appendix A** to assist the Production Manager in correctly recording and notifying the relevant authorities as detailed in **Section 4.2.2** above.

4.3 ACTIONS TO BE TAKEN DURING OR IMMEDIATELY AFTER A POLLUTION INCIDENT

All site personnel with relevant training must make every effort to contain the pollution incident on site, without putting themselves at risk of harm.

In the case of a fire and where safe, attempts must be made to extinguish or contain the fire immediately. This could be through the use of a fire extinguisher, or smothering with cover material.

In the event of a fuel spill that is not contained by bunding, Spill Sorb (or similar) must be used to restrict the spread of the chemical.

4.4 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.

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.

Council would notify neighbours by 'door knocking' every neighbouring property. A summary of the neighbour notification procedure is provided in Document A – Pollution Incident Decision Flow Chart in **Appendix A**.

4.5 IDENTIFICATION OF NEIGHBOURS

To assist the EPA in its decision as to whether it needs to direct Council to notify neighbours and to assist Council in visiting all the local neighbours, enclosed is aerial plan **01A_EV02** which identifies the commercial, industrial and residential properties within 500m of the site boundary.

Implementation

5.1 STAFF TRAINING

New members of staff at the facility will be inducted. This induction will cover the purpose, requirements and responsibilities detailed in this PIRMP.

All staff should receive sufficient training to enable them to carry out their assigned duties in a competent and safe manner. In particular:

- Staff must be capable of using the fire-fighting equipment;
- Staff must be capable of indentifying potential pollution incidents; and
- Staff must be familiar with the requirements and procedures contained within this PIRMP.
- Staff competency will be monitored through audits, public complaints and pollution incident reports.

Each year in June, staff will undertake a simulated pollution incident response desk top exercise, to familiarise site personnel with the requirements of this management plan.

Regular site briefings and toolbox meetings will be held when considered appropriate to draw attention to potential pollution incidents and identify improvements to on-site safety procedures.

5.2 REVIEW AND UPDATE PIRMP

The PIRMP is a living document required to be reviewed and updated at least once every 12 months to ensure accuracy and effectiveness. A review must also be undertaken within one month of any pollution incident occurring.

For these reasons, document control is an important part of the environmental management system. It is critical that PIRMP storage locations are made known to all relevant staff members and that only the latest version is in use. Details of the version and date of issue are recorded on each page of the PIRMP in the bottom left hand corner.

Revised and updated versions of the PIRMP will always be issued with a covering memo summarising the changes. When a new PIRMP is received the old version is replaced in its entirety. A register for updating and testing the PIRMP can be found in **Appendix A** and must be kept on site and updated regular

- 1. Gospel Oak Locality Plan**
- 2. Gospel Oak Evacuation and Aerial Plan**
- 3. Gospel Oak Neighbour Details**

Gospel Oak Locality Plan



| | | | | | | | |
|-----------------------------|--|-------------------------------|--|--|---|--|----------------------------------|
| NOTES/ AMENDMENTS : | SCALES : DATUM : AHD/ LOCAL AZIMUTH : MGA/ ASSUMED | SURVEY REF : CAD REF : | SURVEYED : - DATE : - DESIGNED : - DATE : - DRAWN : jashraf DATE : 31/01/13 | CHECKED AND RECOMMENDED DESIGN ENGINEER DATE : APPROVEDDATE : |  | Gospel Oak Quarry COWRA SHIRE COUNCIL | A3 SHEET No. OF SHEETS 4 7 |
|-----------------------------|--|-------------------------------|--|--|---|--|----------------------------------|



GOSPEL OAK QUARRY FIRE & EMERGENCY EVACUATION PLAN

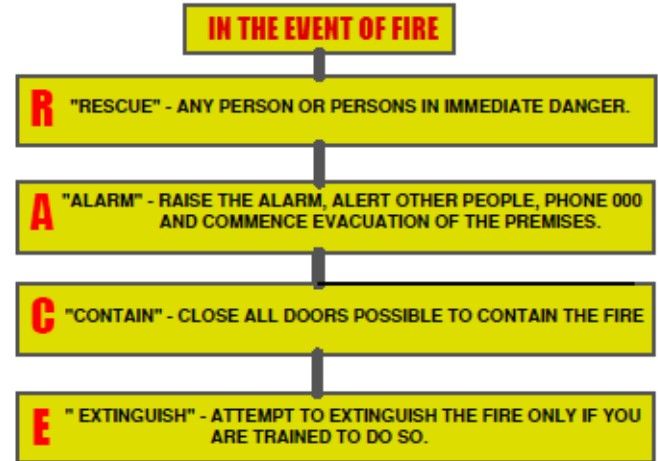
This protective equipment
MUST BE WORN
on this site

For all
EMERGENCY
SERVICES
dial **000**

P POLICE

FIRE

+ AMBULANCE



FIRE SERVICES

- DRY CHEMICAL FIRE EXTINGUISHER
- CARBON DIOXIDE FIRE EXTINGUISHER
- FOAM FIRE EXTINGUISHER
- ASSEMBLY AREA

For other enquires call

Manager Cowra Works - **0427 436 730**

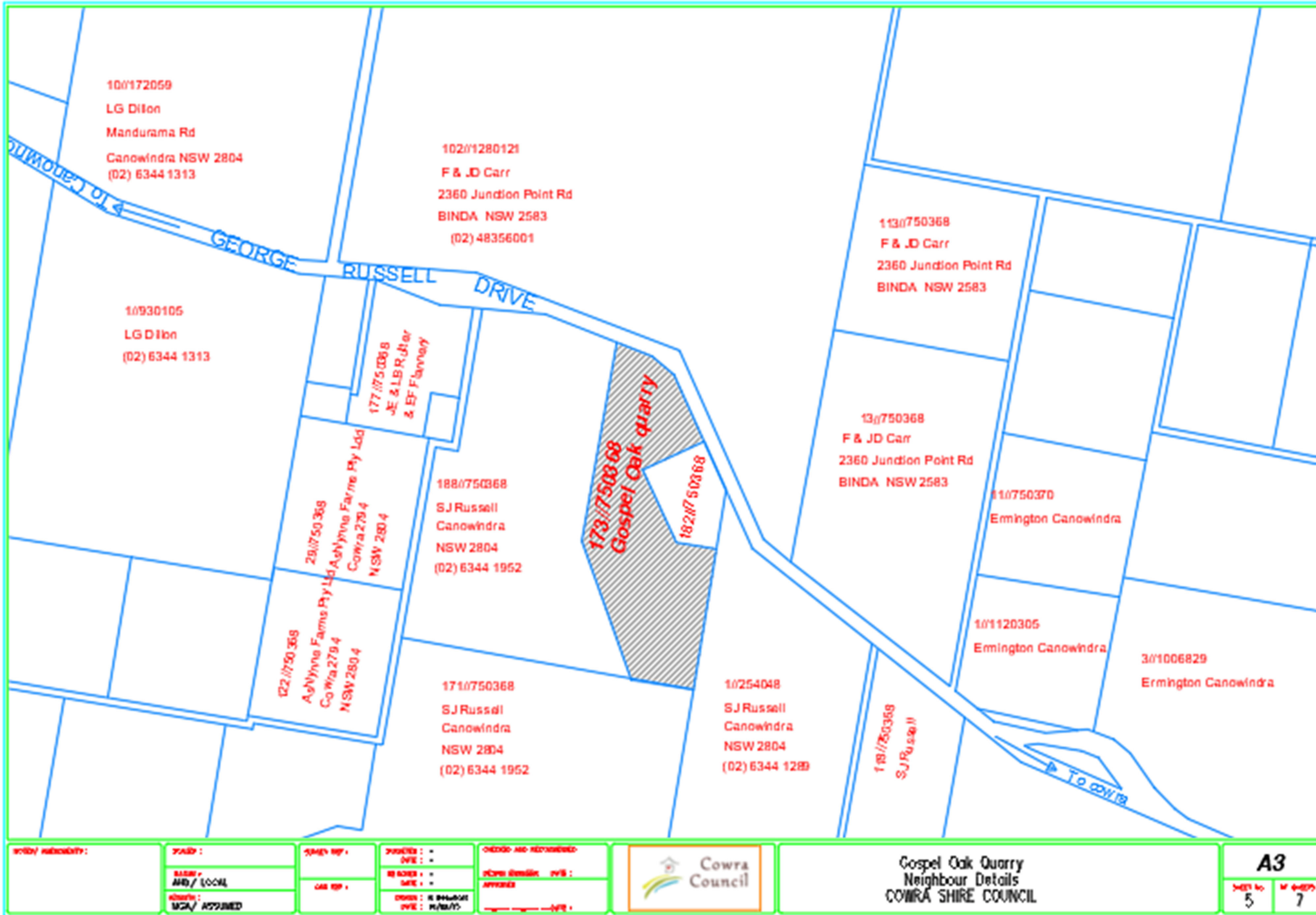
The Environmental Protection Authority (EPA) - **131 555**

WorkCover NSW - **131 050**

Cowra Council complaints **63402000**



Gospel Oak Neighbour Details



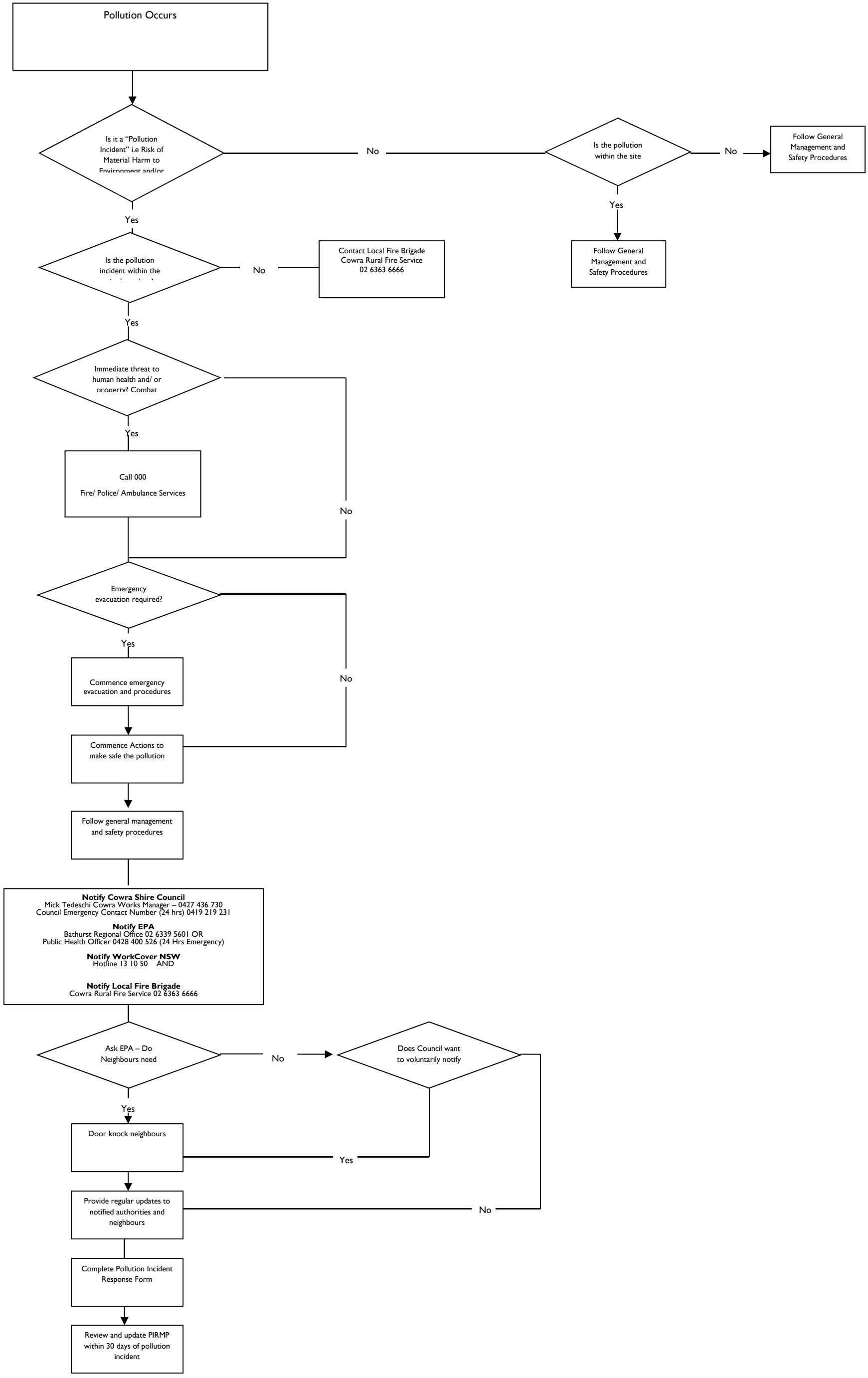
Appendix A

- 1. Document Control Summary**
- 2. Pollution Incident Decision Flow Chart**
- 3. Pollution Incident Reporting Form**
- 4. Memorandum**

| DOCUMENT CONTROL SUMMARY | | |
|---------------------------------|-------------|---|
| Version 1 | July 2012 | Initial Document |
| Version 2 | July 2013 | Mods from desktop exercise |
| Version 3 | July 2015 | Minor changes |
| Version 4 | June 2016 | Minor changes |
| Version 5 | June 2017 | Mod's from desktop exercise |
| Version 6 | August 2018 | Mod's from desktop exercise |
| Version 7 | August 2019 | Minor changes |
| Version 8 | August 2021 | Minor changes / Contact details |
| Version 9 | August 2022 | Minor Changes, Contact details & Aerial photo |

| DESKTOP EXERCISE TEST SUMMARY | | |
|--------------------------------------|----------------|------------------|
| Version 1 | 25 June 2013 | Initial Document |
| Version 2 | 1 June 2016 | Test Completed |
| Version 3 | 8 June 2017 | Test Completed |
| Version 4 | 6 June 2018 | Test Completed |
| Version 5 | 13 June 2019 | Test Completed |
| Version 6 | 10 August 2021 | Test completed |
| Version 7 | 30 May 2022 | Test Completed |

DOCUMENT A - POLLUTION INCIDENT DECISION FLOW CHART



POLLUTION INCIDENT RESPONSE REPORTING FORM



Pollution Incident Management Plan
Incident Reporting Form / Test Form

PIRMP – POLLUTION INCIDENT REPORTING FORM / TEST FORM

| | | | |
|--|--|------------------------------------|--|
| Incident/Test No.: | | Location: | |
| Date: | | Time: | |
| Duration of Incident: | | | |
| Nature of Incident: | | | |
| | | | |
| Temperature: | | Wind Direction & Speed: | |
| Relative Humidity: | | Rainfall Since 9am: | |
| Fire Danger Rating: | | | |
| The location of the place where pollutions' 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): | | | |
| | | | |
| Have Council been notified? | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Has Environment Protection Authority (EPA) been notified? | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |

| | |
|---|--|
| Has the NSW Resources Regulator been notified? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Has NSW Ministry of Health (Via Public Health Units) been notified? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Has Work Cover NSW been notified? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Has Local Fire & Rescue NSW been notified? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Has EPA directed Council to notify neighbours? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| If not, has Council voluntarily notified neighbours? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

Authorised Persons Signatures:

| | | | |
|------------|--|-----------|--|
| Name: | | Position: | |
| Signature: | | Date: | |
| Name: | | Position: | |
| Signature: | | Date: | |

MEMORANDUM OF CHANGES



Cowra Shire Council
Private Bag 342
Cowra NSW 2794

Phone: 02 6340 2000
Fax: 02 6340 2011
council@cowra.nsw.gov.au
www.cowraregion.com.au

Memorandum

From: Department: Operations and Infrastructure
Date:
Re: Summary of changes made to PIRMP – Gospel Oak

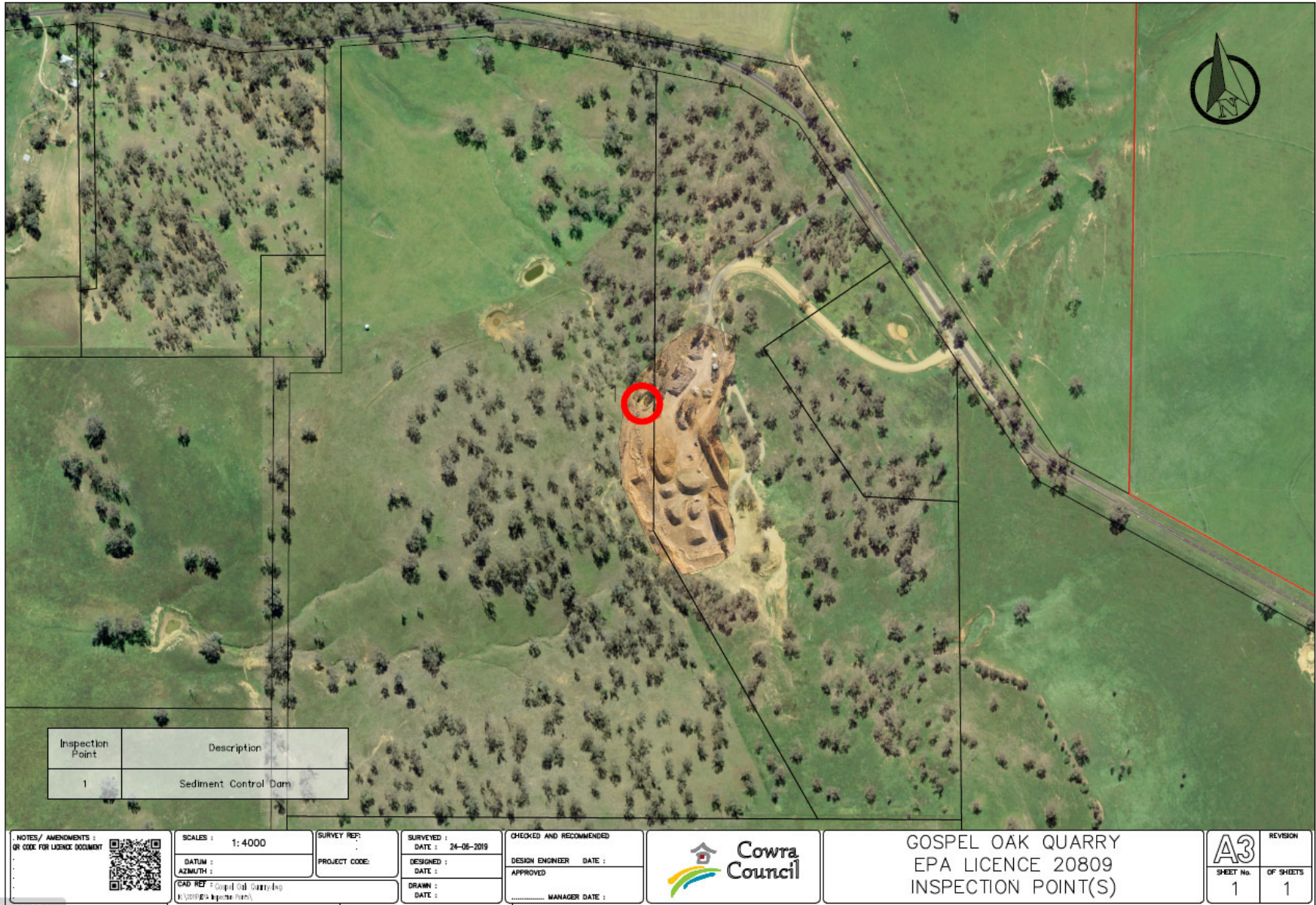
| | | | | |
|---------------------------------|-------------------------------------|---|---|---|
| <input type="checkbox"/> Urgent | <input type="checkbox"/> For Review | <input type="checkbox"/> Please Comment | <input checked="" type="checkbox"/> For Information | <input type="checkbox"/> Please Recycle |
|---------------------------------|-------------------------------------|---|---|---|

With regards to the changes made to this PIRMP document to meet the EPA compliance requirements for EPL 20809 changes as follows:-

- Page 16 Contact details and Aerial Photo amendments
- Pages 21-22 Updated Pollution Incident Response Reporting Form
- Page 25 Appendix B Council's Environmental Risk Assessment
2022 Version 9 / August 2022 Update

Works Engineer - Construction

Map of Pollution Monitoring Site for EPA License Condition



Council’s Environmental Risk Assessment

ASSESS THE RISKS

ESTABLISH THE CONSEQUENCE OR SEVERITY & ASSIGN A RATING OF LEVEL 1 TO 5

| Consequence | Environmental Impact |
|-------------|---|
| Level 1 | Limited damage to minimal area of low significance |
| Level 2 | Minor effects on biological or physical environment |
| Level 3 | Moderate short term effects but not affecting eco-system |
| Level 4 | Serious medium term environmental effects |
| Level 5 | Very serious long term environmental impairment of eco-system |

ESTABLISH THE PROBABILITY FACTOR OF THE EVENT

| Description | Frequency Examples |
|---|--|
| Happens often | More than 1 event per month |
| Could easily happen | More than 1 event per year |
| Could happen and has occurred here or elsewhere | 1 event per 1 to 10 years |
| Hasn't happened yet but could | 1 event per 10 to 100 years (e.g. within a single mine life) |
| Conceivable, but only in extreme circumstances | Less than 1 event per 100 years (e.g. within life of BMA) |

USING THE MATRIX BELOW DETERMINE THE RISK CATEGORY

| | | CONSEQUENCE SEVERITY | | | | |
|--------------------|---|----------------------|----------|----------|---------|---------|
| | | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
| PROBABILITY FACTOR | Happens | High | High | Extreme | Extreme | Extreme |
| | Could easily happen | Moderate | High | High | Extreme | Extreme |
| | Could happen and has occurred here or | Low | Moderate | High | Extreme | Extreme |
| | Hasn't happened yet but could | Low | Low | Moderate | High | Extreme |
| | Conceivable, but only in extreme circumstance | Low | Low | Moderate | High | High |

| ENVIRONMENTAL ASPECT | HAZARD | RISK RATING | ENVIRONMENTAL OBJECTIVE | RISK MANAGEMENT | RISIDUAL RISK RATING | PIRMP ACTION | COMMENTS |
|----------------------|----------------|-------------|--|--|----------------------|--|---|
| Air | Dust | Moderate | The activity will be operated in a way that protects the Environmental Value of air. | <p>(a) Fugitive emissions of contaminants from storage, handling and processing of materials and transporting materials within the site are prevented or minimised.</p> <p>(b) Contingency measures will prevent or minimise adverse effects on the environment from unplanned emissions and shut down and start up emissions of contaminants to air.</p> <p>(c) Releases of contaminants to the atmosphere for dispersion will be managed to prevent or minimise adverse effects on environmental values.</p> | Level 1 | Roads watered if necessary. Follow through on any complaints submitted. Roads sprayed with water during dusty periods. Vegetation grown on waste/ topsoil stockpile to assist with erosion and dust control | Council shall ensure exposure to dust, fumes, mists, gases and vapours is as low as reasonably achievable and in compliance with regulatory requirements. A preliminary risk assessment indicates that the greatest environment risk at Council's quarries relates to dust. |
| Water | Oil and Grease | Low | The activity will be operated in a way that protects the Environmental Value of water. | <p>All of the following—</p> <p>(a) the storage and handling of contaminants will include effective means of secondary containment to prevent or minimise releases to the environment from spillage or leaks;</p> <p>(b) contingency measures will prevent or minimise adverse effects on the environment due to unplanned releases or discharges of contaminants to water;</p> <p>(c) the activity will be managed so that stormwater contaminated by the activity that may cause an adverse effect on an environmental value will not leave the site without prior treatment;</p> <p>(d) any discharge to water or a watercourse or wetland will be managed so that there will be no adverse effects due to the altering of existing flow regimes for water or a watercourse or wetland;</p> <p>(e) the activity will be managed so that adverse effects on environmental values are prevented or minimised.</p> | Level 1 | <p>Large rain event (>25mm in 24 hour period): No work in the pit at any of the quarries.</p> <p>A Ground Control Workplace inspection must be carried out before operations can resume in the pit.</p> <p>Large rain event elsewhere creating creeks to flood downstream: Unlikely to impact any of the Cowra Council quarries, but site inspections of surrounding waterways, creeks, diversion ponds is to be carried out.</p> <p>Drill and Blast contractors to be made aware of any geological variation that may indicate potential aquifers in the drilling area.</p> <ul style="list-style-type: none"> • Drill and blast contractors must immediately report any water coming from the drill holes observed because of drilling. • Drill and blast contractors must immediately report any water observed following a blast. | |

| | | | | | | | |
|--------------------|-----------------|----------|---|---|---------|--|--|
| Noise | Plant Operation | Moderate | The activity will be operated in a way that is mindful of the Community | All vehicles and mobile plant shall be inspected prior to the beginning of work, with any safety critical faults reported immediately and repaired prior to use by operators, sites must include criteria for pre-operational checks as set out in Pre-Start Check List | Level 1 | The drill and blast contractors consult with Cowra Council prior to the commencement of drilling work programs, and drill patterns are approved by Cowra Council prior to drilling and blasting. It is during this period where discussions are had regarding the geology and potential of any water aquifers located in the drill and blast area. Nearest resident located 250m from the quarry and is notified of blasting. | Prior to the commencement of work in any of the three Cowra Council quarries, the Quarry Manager, as part of his Pre-Start Checks must record his findings on the Ground Control Workplace Inspection Checklist. This will include inspection of the access road to the pit, the condition of the pit including dust, water pooling and inspection of the highwalls |
| Fire and Explosion | Fuel | High | The activity will be operated in a way that protects the Environmental Value of land. | The requirements and processes for fire or explosion prevention include fire control and maintenance of firefighting equipment . The Fire and Explosion Principal Mining Hazard Management Plan is yet to be developed. | Level 2 | Fire - Each machine at the quarry and the amenities hut are equipped with appropriate fire extinguishers. Persons using fire extinguishers must advise the Production Manager so that recharging or replacement can be arranged. Fire extinguishers must be checked annually. Fuel – Contractor’s fuel storage will be kept in a suitable bunded area so as to contain any fuel spills or leakages. No fuel or hydrocarbons are to be stored in the amenities hut. Cowra Council will modify a suitable mobile road watering unit that can be used for the control of small grass or bushfires | Diesel will be stored and distributed from a suitably constructed storage unit. This unit will be a mobile fuel cart and will be towed by a suitable vehicle. • There will be no chemicals, combustibles or flammables stored on any of the three Cowra Council quarries. • Apart from small quantities of diesel, oils, lubricants or welding gases, there will be no other chemicals or products brought to site when the quarries are in operation. |
| Vibration | Plant operation | Moderate | The activity will be operated in a way that protects the Environmental Value of land. | Stockpiling, materials processing, concrete batching and other activities associated with the operation. | Level 3 | | |