



# **MOUNT PLEASANT OPERATION POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN**

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## TABLE OF CONTENTS

<b>1</b>	<b>INTRODUCTION .....</b>	<b>1</b>
1.1	PURPOSE AND SCOPE .....	3
1.2	OBJECTIVES .....	5
1.3	DEFINITIONS.....	5
1.4	STRUCTURE OF THE PIRMP .....	6
<b>2</b>	<b>HAZARD IDENTIFICATION .....</b>	<b>8</b>
2.1	GENERAL HAZARDS .....	8
2.2	HAZARDS OF INCREASED LIKELIHOOD.....	8
2.3	INVENTORY OF POTENTIAL POLLUTANTS.....	8
<b>3</b>	<b>PREVENTATIVE ACTIONS .....</b>	<b>9</b>
3.1	WATER MANAGEMENT .....	9
3.2	HAZARDOUS MATERIALS MANAGEMENT.....	9
3.2.1	Chemicals and Hydrocarbons .....	9
3.2.2	Potentially Acid Forming Material .....	10
3.3	BLAST MANAGEMENT.....	10
3.4	SAFETY EQUIPMENT .....	11
<b>4</b>	<b>CONTACT DETAILS .....</b>	<b>12</b>
<b>5</b>	<b>INCIDENT RESPONSE AND REPORTING PROCEDURE .....</b>	<b>13</b>
5.1	DURING A POLLUTION INCIDENT .....	13
5.2	NOTIFICATION OF A POLLUTION INCIDENT .....	13
5.2.1	Authorities.....	14
5.2.2	Community.....	14
5.3	FOLLOWING A POLLUTION INCIDENT .....	16
5.4	CRISIS MANAGEMENT .....	16
<b>6</b>	<b>TRAINING .....</b>	<b>17</b>
<b>7</b>	<b>PLAN AVAILABILITY .....</b>	<b>18</b>
<b>8</b>	<b>REVIEW AND TESTING.....</b>	<b>19</b>
<b>9</b>	<b>RESPONSIBILITIES.....</b>	<b>20</b>
<b>10</b>	<b>REFERENCES .....</b>	<b>21</b>

## LIST OF FIGURES

- Figure 1 Project Location  
Figure 2 Environmental Management System Structure Summary  
Figure 3 Pollution Incident Response Flowchart

## LIST OF TABLES

- Table 1 Pollution Incident Response Management Plan *Protection of the Environment Operations Act 1997* Information Requirements  
Table 2 Pollution Incident Response Management Plan *Protection of the Environment Operations (General) Regulation 2009* Information Requirements  
Table 3 Contact Details for Personnel Authorised to Notify External Parties  
Table 4 Authority Contact Details  
Table 5 Record of Testing  
Table 6 Pollution Incident Response Management Plan Responsibilities

## LIST OF APPENDICES

- Appendix 1 Environment Protection Licence Premises Map  
Appendix 2 Dangerous Goods Storage Locations  
Appendix 3 Dangerous Goods Inventory

## 1 INTRODUCTION

The Mount Pleasant Operation (MPO) is located in the Upper Hunter Valley of New South Wales (NSW), approximately 3 kilometres (km) north-west of Muswellbrook and approximately 50 km north-west of Singleton (Figure 1). The village of Aberdeen and locality of Kayuga are also located approximately 5 km north-northeast and 1 km north of the MPO boundary, respectively (Figure 1). The proponent of the MPO is MACH Energy Australia Pty Ltd (MACH Energy), which purchased the MPO from Coal & Allied Operations Pty Ltd (Coal & Allied) in 2016.

The initial development application for the MPO was made in 1997. This was supported by an Environmental Impact Statement (EIS) prepared by Environmental Resources Management (ERM) Mitchell McCotter (ERM Mitchell McCotter, 1997). On 22 December 1999, the then Minister for Urban Affairs and Planning granted Development Consent DA 92/97 to Coal & Allied. This allowed for the “Construction and operation of an open cut coal mine, coal preparation plant, transport and rail load-out facility and associated facilities” at the MPO. The consent allowed for operations 24 hours per day seven days per week and the extraction of 197 million tonnes (Mt) of run-of-mine (ROM) coal over a 21 year period, at a rate of up to 10.5 Mt of ROM coal per year.

The Mount Pleasant Operation Modification (MOD 1) was submitted on 19 May 2010 with a supporting Environmental Assessment (EA) prepared by EMGA Mitchell McLennan (EMGA Mitchell McLennan, 2010). MOD 1 included the provision of an infrastructure envelope for siting the mine infrastructure, the provision of an optional conveyor/service corridor linking the MPO facilities with the Muswellbrook-Ulan Rail Line and modification of the existing Development Consent DA 92/97 boundaries to accommodate the optional conveyor/service corridor and minor administrative changes. MOD 1 was approved on 19 September 2011.

The MPO South Pit Haul Road Modification (MOD 2) was submitted on 30 January 2017 with a supporting EA prepared by MACH Energy (MACH Energy, 2017a). MOD 2 proposed to realign an internal haul road to enable more efficient access to the South Pit open cut, with no other material changes to the approved MPO. MOD 2 was approved on 29 March 2017.

The MPO Mine Optimisation Modification (MOD 3) was submitted on 31 May 2017 with a supporting EA prepared by MACH Energy (MACH Energy, 2017b). MOD 3 comprised an extension to the time limit on mining operations (to 22 December 2026) and extensions to the South Pit Eastern Out of Pit Emplacement to facilitate development of an improved final landform. MOD 3 was approved on 24 August 2018.

The MPO Rail Modification (MOD 4) was submitted on 18 December 2017 with a supporting EA prepared by MACH Energy (MACH Energy, 2017c). MOD 4 proposed the following changes:

- duplication of the approved rail spur, rail loop, conveyor and rail load-out facility and associated services;
- duplication of the Hunter River water supply pump station, water pipeline and associated electricity supply that followed the original rail spur alignment; and
- demolition and removal of the redundant approved infrastructure within the extent of the Bengalla Mine, once the new rail, product loading and water supply infrastructure has been commissioned and is fully operational.

MOD 4 was approved on 16 November 2018 by the Secretary of the Department of Planning and Environment (DPE) (under Delegation). Appendix 2 of the modified Development Consent DA 92/97 illustrates the Conceptual Project Layout Plan of the approved MPO at 2021 and 2025, Approved Surface Disturbance Plan and Conceptual Final Landform (Attachment 1) incorporating the MOD 4 infrastructure relocations.



AMC-16-01-MP2019\_Figure 1\_Rev A

Figure 1



## 1.1 PURPOSE AND SCOPE

This Pollution Incident Response Management Plan (PIRMP) has been prepared by MACH Energy to satisfy the requirements under Condition O4.1 of Environment Protection Licence (EPL) 20850. As the holder of EPL 20850, MACH Energy is required to prepare this PIRMP in relation to the following activities undertaken at the MPO:

- coal works; and
- mining for coal.

This PIRMP has been prepared to manage pollution incidents associated with development works, open cut mining, operation of the coal handling and preparation plant, rail spur/loop and fines emplacement area, and the supply of water to the MPO operations.

The PIRMP applies to all employees and contractors at the MPO, and covers all areas within the MPO boundary (defined in EPL 20850 and provided in Appendix 1).

Condition O4.1 requires that the PIRMP include information detailed in section 153 of the *Protection of the Environment Operations Act 1997* (POEO Act). Table 1 below lists the information requirements in section 153 and the corresponding section of this PIRMP where the requirement is addressed.

**Table 1**  
**Pollution Incident Response Management Plan *Protection of the Environment Operations Act 1997* Information Requirements**

Protection of the Environment Operations Act 1997 section 153 (c)	Section where addressed in this PIRMP document
<i>A pollution incident response management plan must be in the form required by the regulations and must include the following:</i>	
<i>(a) the procedures to be followed by the holder of the relevant environment protection licence, or the occupier of the relevant premises, in notifying a pollution incident to:</i>	
<i>(i) the owners or occupiers of premises in the vicinity of the premises to which the environment protection licence or the direction under section 153B relates, and</i>	Section 5.2.2
<i>(ii) the local authority for the area in which the premises to which the environment protection licence or the direction under section 153B relates are located and any area affected, or potentially affected, by the pollution, and</i>	Section 5.2.1
<i>(iii) any persons or authorities required to be notified by Part 5.7,</i>	Section 5.2
<i>(b) a detailed description of the action to be taken, immediately after a pollution incident, by the holder of the relevant environment protection licence, or the occupier of the relevant premises, to reduce or control any pollution,</i>	Section 5.3
<i>(c) the procedures to be followed for co-ordinating, with the authorities or persons that have been notified, any action taken in combating the pollution caused by the incident and, in particular, the persons through whom all communications are to be made,</i>	Section 5
<i>(d) any other matter required by the regulations.</i>	See Table 2 below

Under clause 98C of the *Protection of the Environment Operations (General) Regulation 2009*, the PIRMP is required to include the additional matters listed in Table 2 below.

**Table 2**  
**Pollution Incident Response Management Plan *Protection of the Environment Operations***  
***(General) Regulation 2009 Information Requirements***

<b>Protection of the Environment Operations (General) Regulation 2009 clause 98 (c)</b>	<b>Section where addressed in this PIRMP document</b>
<i>(1) <u>General</u> The matters required under section 153C (d) of the Act to be included in a plan are as follows:</i>	
<i>(a) a description of the hazards to human health or the environment associated with the activity to which the licence relates (the relevant activity),</i>	Section 2
<i>(b) the likelihood of any such hazards occurring, including details of any conditions or events that could, or would, increase that likelihood,</i>	Section 2.2
<i>(c) details of the pre-emptive action to be taken to minimise or prevent any risk of harm to human health or the environment arising out of the relevant activity,</i>	Section 3
<i>(d) an inventory of potential pollutants on the premises or used in carrying out the relevant activity,</i>	Appendix 3
<i>(e) the maximum quantity of any pollutant that is likely to be stored or held at particular locations (including underground tanks) at or on the premises to which the licence relates,</i>	Appendix 3
<i>(f) a description of the safety equipment or other devices that are used to minimise the risks to human health or the environment and to contain or control a pollution incident,</i>	Section 3.4
<i>(g) the names, positions and 24-hour contact details of those key individuals who:</i> <i>i) are responsible for activating the plan, and</i> <i>ii) are authorised to notify relevant authorities under section 148 of the Act, and</i> <i>iii) are responsible for managing the response to a pollution incident,</i>	Section 4
<i>(h) the contact details of each relevant authority referred to in section 148 of the Act,</i>	Section 5.2.1
<i>(i) details of the mechanisms for providing early warnings and regular updates to the owners and occupiers of premises in the vicinity of the premises to which the licence relates or where the scheduled activity is carried on,</i>	Section 5.2.2
<i>(j) the arrangements for minimising the risk of harm to any persons who are on the premises or who are present where the scheduled activity is being carried on,</i>	Section 3
<i>(k) a detailed map (or set of maps) showing the location of the premises to which the licence relates, the surrounding area that is likely to be affected by a pollution incident, the location of potential pollutants on the premises and the location of any stormwater drains on the premises,</i>	Appendix 1 and Appendix 2
<i>(l) a detailed description of how any identified risk of harm to human health will be reduced, including (as a minimum) by means of early warnings, updates and the action to be taken during or immediately after a pollution incident to reduce that risk,</i>	Sections 3 and 5
<i>(m) the nature and objectives of any staff training program in relation to the plan,</i>	Section 6
<i>(n) the dates on which the plan has been tested and the name of the person who carried out the test,</i>	Section 8
<i>(o) the dates on which the plan is updated,</i>	Cover Page
<i>(p) the manner in which the plan is to be tested and maintained.</i>	Section 8

## 1.2 OBJECTIVES

This PIRMP will be implemented by MACH Energy in the event of a pollution incident. Specifically, the objectives of the PIRMP are to provide a framework to:

- provide comprehensive and timely communication about a pollution incident to staff at the premises, the Environment Protection Authority (EPA), Muswellbrook Shire Council, NSW Ministry of Health, Department of Planning, Infrastructure and Environment (DPIE), SafeWork NSW, Fire and Rescue NSW, and anyone outside the facility who may be affected by the impacts of the pollution incident;
- minimise and control the risk of a pollution incident at the facility by identifying risks and developing actions to minimise and manage those risks; and
- adequately implement the plan by training staff, identifying persons responsible for implementing the plan, and regularly testing the plan for accuracy, currency and suitability.

A written copy of the PIRMP will be made available to any authorised EPA officer and to any person who is responsible for implementing the plan.

## 1.3 DEFINITIONS

The following definitions are taken from the *Environmental Guidelines: Preparation of Pollution Incident Response Management Plans* (NSW EPA, 2012). The definition of a pollution incident is:

- *An incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise.*

A pollution incident is required to be reported if there is a risk of ‘material harm to the environment’, which is defined in section 147 of the *POEO Act* as:

- *harm to the environment is material if:*
  - *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*
- *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.*

Under section 148 of the *POEO Act*, MACH Energy is required to report pollution incidents immediately to the EPA, NSW Health, the DPIE, Fire and Rescue NSW, SafeWork NSW and the Muswellbrook Shire Council.



## **1.4 STRUCTURE OF THE PIRMP**

This PIRMP will form part of the Environmental Management System Structure for the MPO (Figure 2).

The remainder of the PIRMP is structured as follows:

Section 2: Describes the hazards identified at the MPO.

Section 3: Outlines the preventative actions proposed to minimise any risks associated with pollution incidents.

Section 4: Provides contact details of personnel authorised to initiate the PIRMP.

Section 5: Outlines the pollution incident response and reporting procedure.

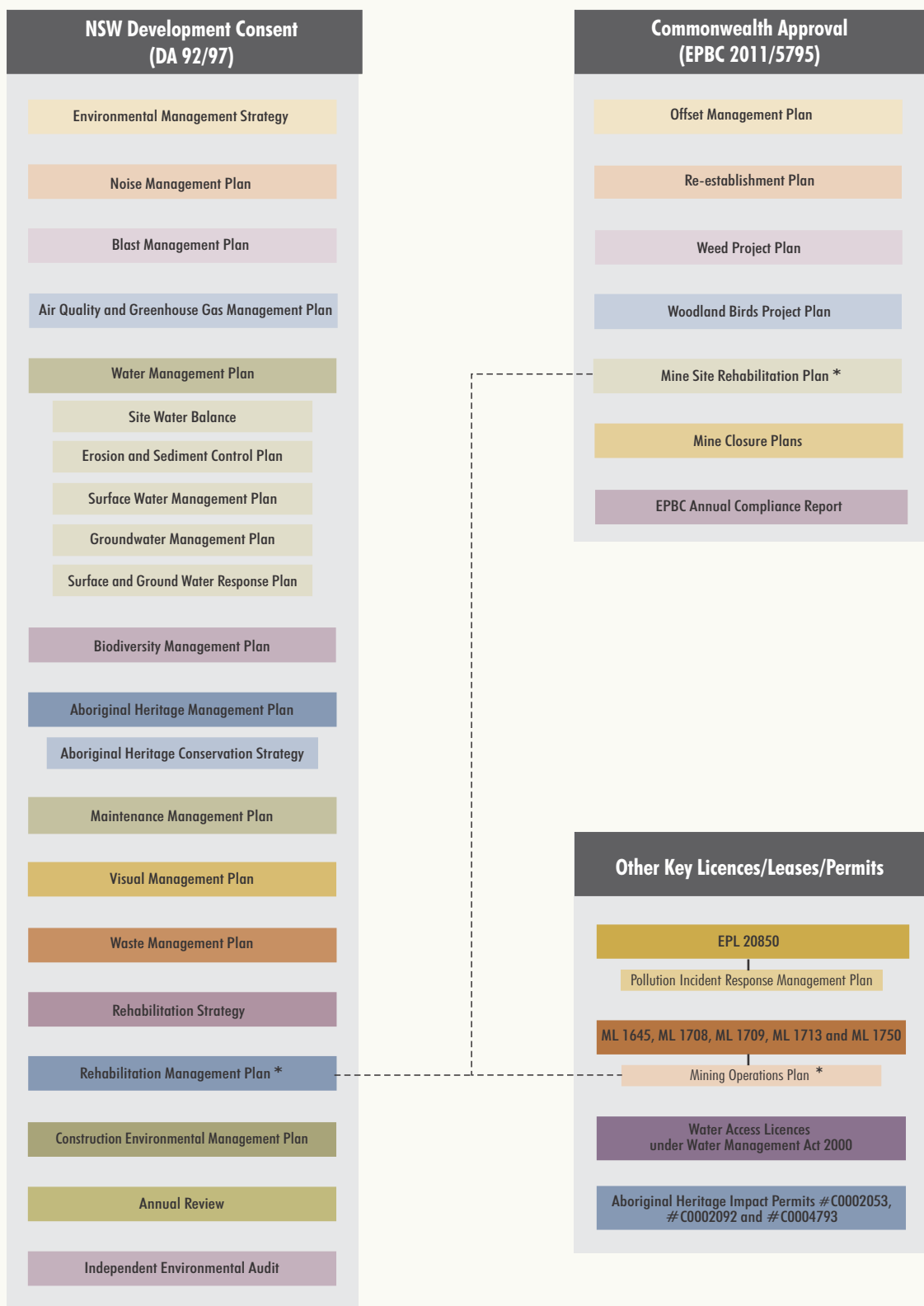
Section 6: Details the training proposed to be undertaken at the MPO, relevant to this PIRMP.

Section 7: Describes how this PIRMP will be made available.

Section 8: Describes the review and testing process of this PIRMP.

Section 9: Outlines the responsibilities which have been delegated as part of this PIRMP.

Section 10: Lists the references cited in this report.



**Notes:**

- \* The Mining Operations Plan has been developed to meet the requirements for a Rehabilitation Management Plan (Condition 56, Schedule 3 of Development Consent [DA 92/97]). Following approval of the Mine Site Rehabilitation Plan (Conditions 19 and 20 of EPBC 2011/5795), the Mining Operations Plan and Rehabilitation Management Plan would be reviewed and revised if necessary.

**Figure 2**

## **2 HAZARD IDENTIFICATION**

The following section lists the hazards identified at the MPO which are relevant to this PIRMP.

### **2.1 GENERAL HAZARDS**

The following potential hazards to human health and the environment are generally associated with an open cut coal mining operation:

- pollution of waters as a result of unauthorised discharge of water (sediment laden and/or contaminated) from site;
- pollution of air arising from activities generating blasting, dust and fume impacts;
- pollution of land and/or site water as a result of uncontrolled runoff from disturbed areas, spills and leaks of chemicals (including diesel) as a result of a failure of diversion or containment structures; and
- pollution of land and/or waters from waste materials as a result of a failure to adequately capture and dispose of waste.

### **2.2 HAZARDS OF INCREASED LIKELIHOOD**

The following are considered to have an increased likelihood at the MPO:

- unauthorised discharge of contaminated water as a result of failure of water management structures;
- discharge of hydrocarbons from site; and
- dust and fume impacts generated by the handling of waste rock material, clearing vegetation to leave exposed surfaces, and blasting undertaken on-site.

### **2.3 INVENTORY OF POTENTIAL POLLUTANTS**

All chemicals stored on site will be accompanied by the relevant Safety Data Sheet (SDS) as required by Work Health and Safety regulations.

The locations of all potential pollutants stored on-site are shown in Appendix 2. Additionally, a full inventory of potential pollutants, including maximum quantities, is provided in Appendix 3. The inventory within Appendix 3 will be updated progressively if additional pollutants are stored on-site.

### **3 PREVENTATIVE ACTIONS**

MACH Energy has implemented a number of management measures including standard work practices, hazard reporting, MACH 5's (take 5s) and site specific management plans (Figure 2) to minimise potential impacts and reduce the likelihood of a pollution incident occurring on site. The specific measures used to reduce the likelihood of the high risk potential pollution incidents, as outlined in Section 2, are described below.

A description of the safety equipment and other devices that are used to minimise the risks to human health, and to contain or control a pollution incident, are also detailed below.

#### **3.1 WATER MANAGEMENT**

A Water Management Plan (WMP) has been prepared by MACH Energy to satisfy the requirements under Development Consent DA 92/97. The WMP describes the water management measures to be implemented at the site to minimise the risk of contaminated discharges. These include, but are not limited to:

- Separation of runoff from disturbed and undisturbed areas, where practicable.
- Progressive rehabilitation/stabilisation of infrastructure and mining areas.
- Management of runoff from mining and infrastructure areas through the MPO water management system.
- Construction of suitable erosion and sediment controls such as drains, diversion banks and sediment dams to contain and manage sediment laden surface runoff.
- Rehabilitation and management of Final Voids.
- Controlling all discharges from the site and ensuring they are licensed and meet all relevant water quality discharge requirements.
- Implementing a procedure for the management and reporting of incidents, complaints and non-compliances related to surface and ground water.

Personnel at the MPO will be trained to put their safety first by identifying hazards and the risks associated with water management.

#### **3.2 HAZARDOUS MATERIALS MANAGEMENT**

##### **3.2.1 Chemicals and Hydrocarbons**

Chemicals and hydrocarbons will be managed through the procedures for site contamination prevention and control described below. These procedures will minimise the potential for land and water contamination from the handling, storage and disposal of these substances.

Chemicals and hydrocarbons will be transported and stored on-site in accordance with the NSW *Work Health and Safety Act 2011* and *Work Health and Safety (Mines and Petroleum Sites) Act 2013*.

On-site controls will include storage within properly sealed containers and controlled areas, banded for medium to long-term storage requirements. These storage and waste receipt areas will be isolated from clean water catchments to minimise the risk of land or water pollution should an unplanned spill occur.

The response to any accidental spills or ground contamination will be assessed on a case-by-case basis and remediated using biodegradable spill absorbent (Section 3.4). Emergency response procedures will also be enacted as required, in accordance with the relevant environmental procedures. An Emergency Response Team (ERT) in consultation with MACH Energy will be formed and maintained by Principal Contractors at the MPO, which will assist in the control and clean up in the event of a chemical/hydrocarbon spill. Hydrocarbon or chemical spills will be reported in the mine site incident reporting and management system with corrective and preventative measures taken as appropriate.

### **3.2.2 Potentially Acid Forming Material**

As outlined in the MPO Mining Operations Plan, due to the low acid forming potential of the mine leachate at the site, dilution and neutralisation is anticipated to negate any acid forming effects. Notwithstanding, MACH Energy will exclude the material identified as potentially being acid forming (i.e. non-economic coal and identified coal seam roof and floor rock from the Wynn Seam) from the final face of the overburden emplacement to reduce any residual risk.

## **3.3 BLAST MANAGEMENT**

Blasting activities are undertaken in accordance with the Blast Management Plan (BMP) which has been prepared in accordance with Condition 17, Schedule 3 of the Development Consent DA 92/97. The BMP outlines management measures to control blasting risks associated with the MPO, including management of overpressure, vibration, flyrock and fume risks.

Blast management procedures outlined in the BMP include, but are not limited to:

- training all relevant personnel on blast-related obligations and explosives management;
- use of appropriate initiation and detonation systems and adherence to blast loading and initiation designs;
- use of adequate burden, stemming lengths and stemming material to confine explosives;
- designing all blasts to comply with airblast overpressure and ground vibration limits;
- monitoring of blasts at all prescribed locations;
- implementation of procedures to mitigate fumes for all blast events;
- calibration of site-specific blast models over time, using monitored data from previous blasting, to enable refinement and assessment for future blast events;
- development of a blast records system which captures sufficient information to allow appropriate characterisation and comparison of blasts and meteorological conditions;
- periodic review of blasting procedures to evaluate performance; and
- evaluation of new technology and alternative blasting methodologies.

Blast monitoring results will be incorporated in the Annual Review.



### **3.4 SAFETY EQUIPMENT**

Personal Protective Equipment for the safe handling of all chemicals stored on-site is available at the MPO. In addition, spill kits will be available at various high risk locations at the site, and will include:

- bags of absorbent material;
- absorbent pads;
- gloves for handling contaminated substances; and
- absorbent booms.

## 4 CONTACT DETAILS

The following personnel (listed in Table 3 below) have the authority to activate this PIRMP and notify the relevant authorities (listed in Table 4) and communicate with external stakeholders regarding pollution incidents at the MPO.

**Table 3**  
**Contact Details for Personnel Authorised to Notify External Parties**

Position	Contact	Phone Number
General Manager Operations	Richard Bailey	0417 412 962
Project Director Construction	Brad Fackender	0417 793 618
Environmental Superintendent	Andrew Reid	0411 440 912
External Relations Manager	Ngairé Baker	0400 214 885

## **5 INCIDENT RESPONSE AND REPORTING PROCEDURE**

Sections 5.1 to 5.3 below detail the incident response and notification procedure. The overall pollution incident response procedure is outlined in Figure 3.

If a pollution incident is classified as a 'Crisis' (i.e. with potential to result in significant environmental degradation and/or community disruption, particularly when it may be life threatening), the procedures outlined in Section 5.4 will also be undertaken.

### **5.1 DURING A POLLUTION INCIDENT**

The PIRMP will be activated when:

- an MPO employee, contractor or supplier becomes aware of a pollution incident or potential pollution incident that has caused, or threatens to cause, material harm to the environment; or
- a notification from an external party provides evidence that a pollution incident or potential pollution incident may have occurred at the MPO.

Upon activation of the PIRMP the following internal and external notification process is to be followed:

1. Report potential pollution incident to supervisor immediately.
2. If there is an immediate threat to life or property, declare an emergency situation and contact 000 immediately. Activate the ERT and refer to Emergency Response Plans.
3. Supervisor reports incident to Environmental Superintendent immediately. Where not available, contact authorised persons listed in Table 3 and provide the following details:
  - a. exact location of incident;
  - b. date, time and nature of incident;
  - c. extent of incident;
  - d. actions taken; and
  - e. whether emergency services are required, or have been contacted.
4. Authorised personnel (Table 3) will notify relevant authorities (Table 4) immediately upon becoming aware of the incident in accordance with Section 5.2 below. Relevant authorities will be provided with factual information.
5. Where other stakeholders may be impacted (e.g. community members) or where directed by the EPA, other stakeholders are to be contacted.

### **5.2 NOTIFICATION OF A POLLUTION INCIDENT**

Following containment of the incident, immediate action must be taken to determine if the incident could be classified as a 'material harm incident', i.e. considered to be causing or threatening material harm.

As defined by section 147 of the POEO Act, a material harm incident has occurred if the incident:

- involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial; or
- results in actual or potential loss (including all 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) or property damage of an amount, or amounts in aggregate, exceeding \$10,000.00 (or such other amount as is prescribed by the regulations). The determination of a material harm incident will be made by the General Manager Operations and/or Project Director in consultation with the Environmental Superintendent. It is possible for a material harm incident to occur on land that is within the boundary of the EPL.

### 5.2.1 Authorities

If a pollution incident on-site occurs where material harm to the environment is caused or threatened, MACH Energy must immediately implement this PIRMP. The authorities listed in Table 4 shall be notified immediately of the pollution incident by an authorised person. All pollution incidents causing or threatening material harm to the environment are to be reported immediately. As stated above, in the event of an emergency, 000 will be called prior to informing the authorities within Table 4.

**Table 4**  
**Authority Contact Details**

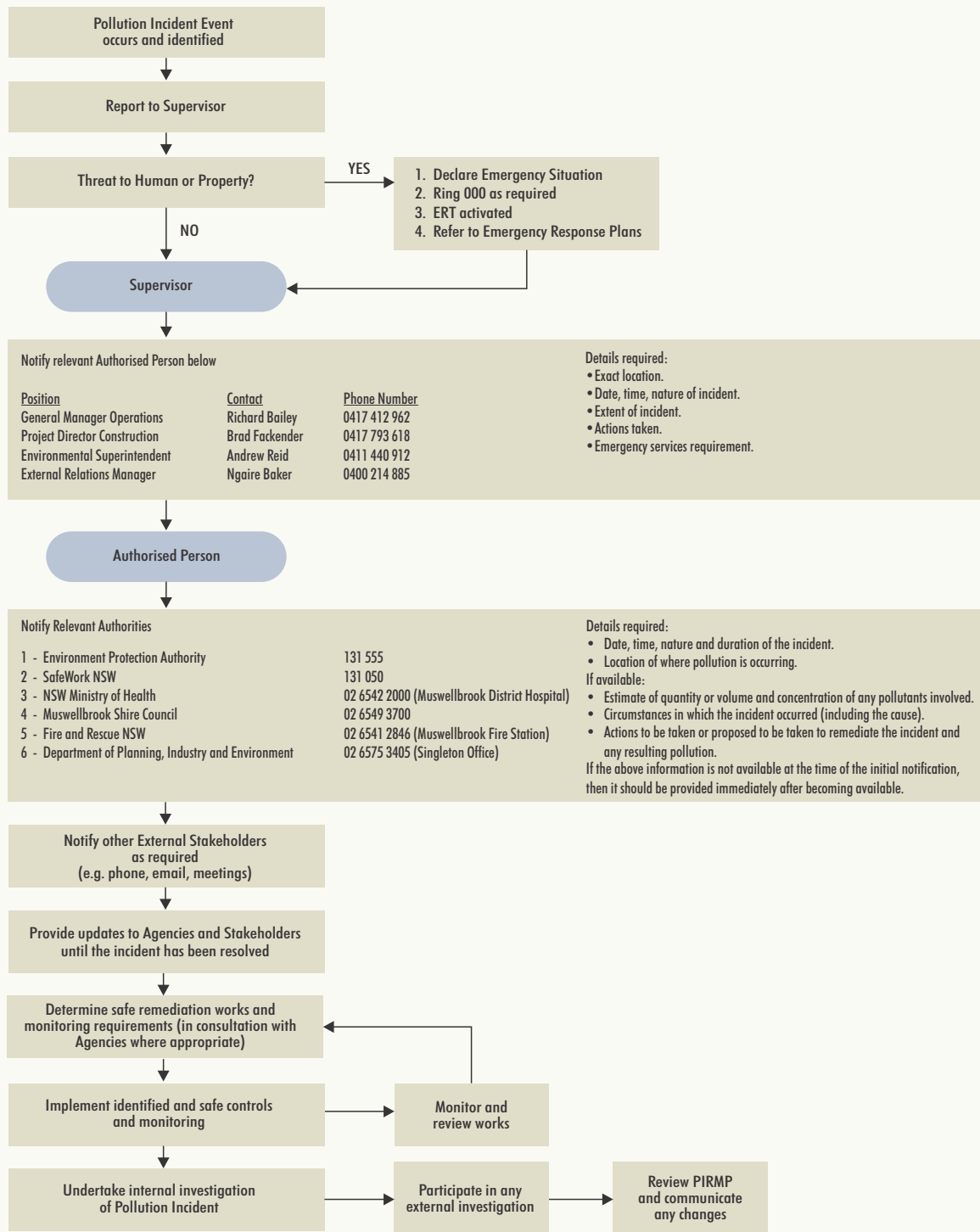
Authority	Phone Number
Environment Protection Authority	131 555
SafeWork NSW	131 050
NSW Ministry of Health via Local Public Health Unit	02 6542 2000 (Muswellbrook District Hospital)
Muswellbrook Shire Council	02 6549 3700
Fire and Rescue NSW	02 6541 2846 (Muswellbrook Fire Station)
Department of Planning, Industry and Environment	02 6575 3405 (Singleton Office)

### 5.2.2 Community

Any pollution incident causing or threatening material harm to the environment will be communicated to all potentially impacted stakeholders as soon as practicable by an authorised person (listed in Table 3). For water and hydrocarbon related pollution incidents, the closest private water user downstream of the operations will be notified of the incident. Ongoing communication will continue until the incident has been controlled and impacts as a result of the incident have been rectified.

MACH Energy will contact those affected by a pollution incident in conjunction with emergency services by either direct contact or telephone. Updates will be provided to the broader local community in affected areas via newsletters, information sheets, the MACH Energy website ([www.machenergyaustralia.com.au](http://www.machenergyaustralia.com.au)) or media statements. The method and content of communication will depend on the pollution incident and the actions required to protect human health.

For a fume related incident, if a blast fume of Level 3 or above is expected to leave the site, MACH Energy will notify the surrounding sensitive receivers (refer to BMP). Contact registers for MACH Energy's stakeholders are maintained on-site.



AMC-16-01 MP2019 PIRMP\_002A

Figure 3



### 5.3 FOLLOWING A POLLUTION INCIDENT

Following a pollution incident at the MPO the following actions will be undertaken:

- assessment of the incident to determine necessary controls and remedial works. Remediation works may include:
  - sampling and/or monitoring;
  - installation of controls;
  - engagement of specialist consultants and/or contractors;
  - procurement of additional/replacement supplies (e.g. spill kit material); and
  - consultation with agencies or stakeholders;
- updates of agencies and stakeholders;
- internal investigation of the pollution incident;
- a detailed report of the pollution incident to be provided to the DPIE and any relevant agencies within 7 days of the date of the incident in accordance with Condition 7, Schedule 5 of Development Consent DA 92/97, which outlines the following:
  - date, time and nature of the pollution incident;
  - identifying the cause (or likely cause) of the pollution incident;
  - describing what action has been taken to date; and
  - describing proposed measures to address the pollution incident;
- participation in any external investigation of the pollution incident;
- review of the PIRMP for effectiveness; and
- appropriate communication of any changes to the PIRMP.

### 5.4 CRISIS MANAGEMENT

If upon becoming aware of the pollution incident, the MACH Energy Crisis Management Team (CMT) Leader classifies the pollution incident as a 'Crisis', the following procedures (outlined in the MACH Energy Crisis Management Plan) will be undertaken:

1. The CMT Leader will mobilise the CMT at the Crisis Command Centre (the Primary Crisis Command Centre is located at the meeting room of Suite 1, Level 3, 426 King Street, Newcastle West, New South Wales).
2. The CMT will manage all external consequences which arise from the crisis, including those relating to the community, environment, finances, legalities and media. The CMT will report the details of the incident to all relevant internal stakeholders within related organisations.
3. An Incident Management Team (IMT) will be formed, whose purpose is to support the ERT and provide consistent updates to the CMT throughout the incident.
4. The IMT will provide regular updated information regarding the incident to the CMT, and work with the CMT to agree on appropriate responses to the incident as information becomes available. The IMT will coordinate the implementation of these responses.
5. The IMT will plan and implement all external communication with community and environmental stakeholders.

Once the crisis situation is being managed and is deemed under control (as outlined in the MACH Energy Crisis Management Plan), the CMT is responsible for closing-out the crisis as soon as possible. This team will also lead evaluation exercises conducted in relation to the crisis.

## **6 TRAINING**

A training program has been developed with the objective of informing personnel of the appropriate implementation of the PIRMP. As part of the training program, the following actions will be undertaken:

- communication with employees and contractors informing them about the existence and purpose of the PIRMP in inductions;
- informing personnel of the appropriate methods of notification of environmental incidents;
- communication with relevant personnel outlining their role and responsibilities under the PIRMP; and
- providing updates to personnel when the PIRMP is revised.

In addition to the above, the MPO ERT training schedule will contain hazardous materials training for ERT members. Records of training will be kept in accordance with the MPO training management system.

## **7 PLAN AVAILABILITY**

A copy of this plan will be maintained at the MPO site and will be readily available to MACH Energy personnel and to any authorised EPA officer on request.

In addition, a copy of the plan will be made publicly available on the MACH Energy website ([www.machenergyaustralia.com.au](http://www.machenergyaustralia.com.au)).

## 8 REVIEW AND TESTING

A copy of the PIRMP will be kept at the MPO at all times and implemented in the case of a pollution incident. The PIRMP will be reviewed:

- within 3 months of any changes to licence conditions relating to pollution incidents;
- following a pollution incident at the MPO;
- following an independent environmental audit which recommends changes to the PIRMP; and
- if there is a relevant change in technology or legislation.

The PIRMP will be tested regularly in such a manner as to ensure that the information included in the plan is accurate, up to date and is capable of being implemented in an effective manner. Testing will be undertaken by desktop simulation or using practical drills at the following intervals:

- at least once every 12 months (i.e. prior to November each year); and
- within one month of any pollution incident occurring.

A record of testing undertaken on the PIRMP is provided in Table 5 below. This table will be progressively updated over time.

**Table 5**  
**Record of Testing**

Testing Date	Personnel
24 March 2017 (Desktop)	Environmental Superintendent – Klay Marchant
20 November 2017 (Desktop)	Environmental Superintendent – Klay Marchant
2 June 2018 (Notification)	Environmental Superintendent – Klay Marchant
2 October 2019 (Practical Drill)	Environmental Superintendent – Andrew Reid

## 9 RESPONSIBILITIES

The responsibilities assumed under this PIRMP are listed in Table 6 below.

**Table 6**  
**Pollution Incident Response Management Plan Responsibilities**

Role	Responsibility
General Manager Operations / Project Director	<ul style="list-style-type: none"> <li>Provide adequate resources to implement the requirements of the PIRMP.</li> </ul>
Environmental Superintendent	<ul style="list-style-type: none"> <li>Coordinate the notification and reporting of pollution incidents.</li> <li>Coordinate the response to pollution incidents.</li> <li>Prepare reports relating to pollution incidents.</li> <li>Provide all employees and contractors adequate training in environmental awareness, legal responsibilities, and pollution incident response.</li> <li>Coordinate relevant reviews of the PIRMP.</li> <li>Maintain records of training relating to the PIRMP.</li> </ul>
External Relations Manager	<ul style="list-style-type: none"> <li>Assist with notification to relevant authorities and potentially affected external stakeholders of pollution incidents.</li> </ul>
Supervisors	<ul style="list-style-type: none"> <li>Notify the Environmental Superintendent and department manager of pollution incidents.</li> <li>Coordinate the response to pollution incidents.</li> <li>Undertake routine area inspections.</li> </ul>
All Employees and Contractors	<ul style="list-style-type: none"> <li>Report pollution incidents and potential pollution incidents to their immediate supervisor.</li> <li>Ensure all chemicals, hydrocarbons and hazardous substances are stored and handled appropriately.</li> </ul>



## 10 REFERENCES

EMGA Mitchell McLennan (2010) *Mount Pleasant Project Modification Environmental Assessment Report*. Prepared for Coal and Allied Operations Pty Limited.

Environmental Resources Management Mitchell McCotter (1997) *Mount Pleasant Operation Environmental Impact Statement*.

MACH Energy Australia Pty Ltd (2017) *Mount Pleasant Operation (DA 92/97) – South Pit Haul Road Modification*.

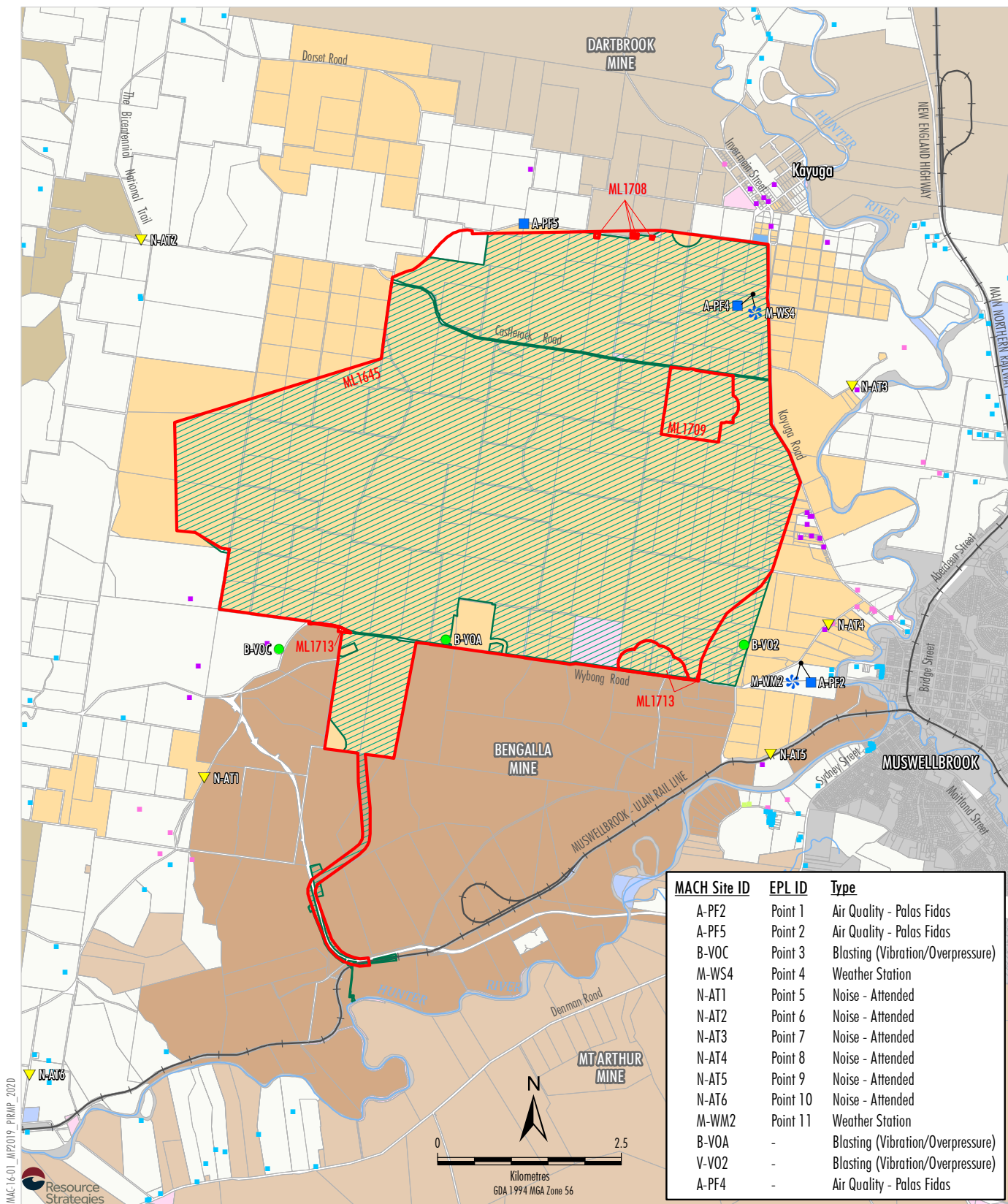
MACH Energy (2017b) *Mount Pleasant Operation – Mine Optimisation Modification Environmental Assessment*.

MACH Energy (2017c) *Mount Pleasant Operation – Rail Modification Environmental Assessment*.

New South Wales Environment Protection Authority (2012) *Environmental Guidelines: Preparation of Pollution Incident Response Management Plans*.

## **APPENDIX 1**

### **ENVIRONMENT PROTECTION LICENCE PREMISES MAP**



- LEGEND**
- Mining Lease Boundary
  - Environment Protection Licence Premises
  - Privately-owned Residence - MPO Acquisition on Request
  - Privately-owned Residence - MPO Mitigation/Acquisition on Request \*
  - Privately-owned Residence - MPO Mitigation on Request
  - Other Privately-owned Residence
  - Monitoring Sites
  - Air Quality - Palas Fidas
  - Blasting (Vibration/Overpressure)
  - ▼ Attended Noise
  - ★ Weather Station

- Mount Pleasant Controlled
- Bengalla Controlled
- Dartbrook Controlled
- Mt Arthur Controlled
- Other Mining/Resource Company Controlled
- Crown
- State of NSW
- Muswellbrook Shire Council
- Privately-owned Land
- Muswellbrook and Upper Hunter LEPs Zones B2, B5, IN1, SP2, R2, R5, RE1, RE2 and W1

\* MPO Mitigation on Request - rail noise. MPO is only required to acquire and/or install air quality mitigation measures at this property if acquisition and/or mitigation is not reasonably achievable under a separate approval for the Bengalla Mine.

Source: NSW Spatial Services (2019); MACH Energy (2019)

## MACHEnergy

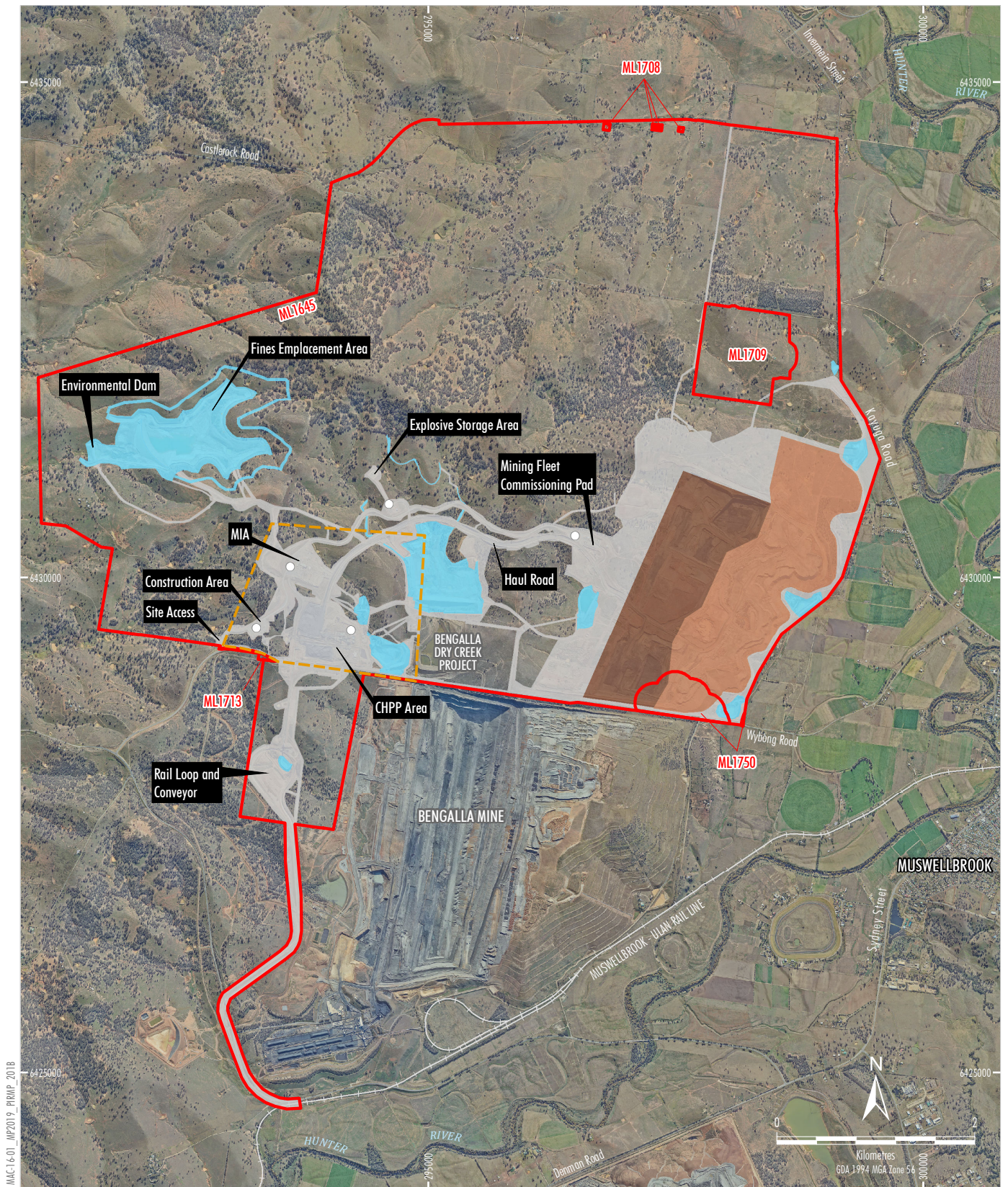
### MOUNT PLEASANT OPTIMISATION PROJECT

#### Environment Protection Licence Premises Map and Relevant Air Quality, Blast, Noise and Meteorological Monitoring Sites

## **APPENDIX 2**

### **DANGEROUS GOODS STORAGE LOCATIONS**





#### LEGEND

- Mining Lease Boundary
- Infrastructure Area Envelope
- Active Mining Area
- Active Overburden Emplacement Area
- Water Management
- Infrastructure Area and Access Roads
- Pollutant Storage Location

Source: MACH (2019); NSW Land & Property Information (2018);  
NSW Department Resources & Energy (2019);  
Orthophoto: MACH Energy (June 2019)

Note: General arrangement of the mine domains shown on this figure is consistent with the arrangement shown in the current Mining Operations Plan (approved on 1 July 2019).

**MACHEnergy**  
MOUNT PLEASANT OPERATIONS  
Dangerous Goods Storage Locations

**Figure A-1**



## **APPENDIX 3**

### **DANGEROUS GOODS INVENTORY**

**Table 3-1  
Pollutant Inventory**

Pollutant	Location <sup>1</sup>	Approximate Quantity
Diesel	Construction Area	68,000 L (1 tank)
Diesel	Mine Infrastructure Area	330,000 L (3 tanks)
Oil	Mine Infrastructure Area	24,000 L (2 tanks)
Coolant	Mine Infrastructure Area	5,000 L
Waste Oil	Mine Infrastructure Area	12,500 L
Waste Coolant	Mine Infrastructure Area	5,000 L
AN	Reload Pad	60 t
AN Emulsion	Reload Pad	90,000 t (tank)
Diesel	Reload Pad	110,000 l
Diesel	Go Line	110,000 l
Diesel	CHPP	15,000 L
Radiation Isotopes (CHPP Instruments)	CHPP	-
Oil	CHPP	12,000 L
Waste Oil	CHPP	10,000 L
Grease	CHPP	2,000 L
Oil	TLO	500 L
Waste Oil	TLO	1,000 L

Note: L = Litres.

<sup>1</sup> The pollution storage location is shown in Appendix 2.