

**Lot 3 DP 619374, and Lots 102, 103, 110, 120 DP 755418
Buckaroo Lane, Mudgee**

Document	Version	Effective	Review	Author	Approved
Pollution Incident Response Plan	1	Oct 2012	Oct 2013	Minespex	B Murdoch
	2	Feb 2014	Feb 2014	L. M. Updated	L. Mulholland
	3	21/09/2015	Oct 2016	L..Q. Updated	L. Quinn
	4 (contact details updated)	7/04/2016	Oct 2016	EY Updated	B Murdoch

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1.0 INTRODUCTION

Mudgee Dolomite and Lime Pty Limited (MDL) are located approximately 10km north east of Mudgee Township. The MDL processing plant is located off Buckaroo Lane and is contained within Lot 3 DP 619374. The Mine site is contained within Lots 102, 103, 110 and 120 DP 755418. The mine is accessed from the Ulan Road via Buckaroo Lane and a shared haul road that traverses several lots, including: Lot 3 DP 619374 (MDL office and processing plant), Lot 2 DP 1022470 (Mid-Western Regional Council quarry), Lot 1 DP1016310, and Lot 102 DP 755418 (Mine site). The haul road is also utilised by Mid-Western Regional Council to periodically access their quarry, however MDL are the regular road users.

The mine and processing site is zoned RU1 Primary Production pursuant to the Mid-Western Regional Local Environmental Plan 2012. The dolomite and limestone mine site is located down slope of E3 Environmental Protection zoned land encompassing Mount Buckaroo and Mount Knowles and surrounds.

The *Protection of the Environment Legislation Amendment Act 2011* (POELA Act) requires holders of environment protection licences to prepare and implement Pollution Incident Response Management Plans (PIRMP).

1.1 SCOPE

MDL operate under Environment Protection Licence – 2588 (EPL 2588) issued under Section 55 of the Protection of the Environment Operations Act 1997. The EPL is required for the Scheduled activities of ‘Crushing, grinding or separating’ and ‘Extractive activities’.

This PIRMP has been prepared to manage pollution incidents from MDL’s operations in areas covered by MDL’s EPL 2588 (refer to **Figure 1**).

1.2 OBJECTIVE

The objectives of the PIRMP are:

- To provide comprehensive and timely communication about a pollution incident to staff at the premises, the Environment Protection Authority (EPA), Mid-Western Regional Council, NSW Ministry of Health, WorkCover NSW, Fire and Rescue NSW and people outside MDL Buckaroo who may be affected by the impacts of the pollution incident;
- To minimise and control the risk of a pollution incident at MDL Buckaroo by identifying risks and developing action plans to minimise and manage those risks; and
- To properly implement the plan by training staff, identifying persons responsible for implementing the plan, and regularly testing the plan for accuracy, currency and suitability.

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1.3 DEFINITIONS

The following definitions are taken from a document produced by NSW Environment Protection Authority (EPA) titled *Environmental Guidelines: Preparation of Pollution Incident Response Management Plans*.

The definition of a pollution incident is:

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

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 *Protection of Environmental Operations (POEO) Act* as:

- (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 (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.

1.4 RELATIONSHIP TO OTHER DOCUMENTS

This PIRMP will form a key document in MDL’s emergency response planning. Other relevant documentation relating to MDL’s response to pollution incidents includes:

- Mining Operations Plan
- MDL Blast Management Plan
- *MDL Buckaroo Water Management System Independent Audit* Report prepared by Minespex (May 2011). This document provides guidance material for the ongoing implementation of recognised erosion and sediment control principles at the site.

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2.0 HAZARD IDENTIFICATION

MDL management have undertaken a review of activities and identified the major hazards associated with MDL's operations.

At the Buckaroo Lane, Mudgee quarry the following products are produced:

- Agricultural Lime (Aglime is made from naturally occurring Calcium Carbonate (CaCO₃)).
- Industrial Limestone
- Stonedust
- Bricklime
- MDL Dolomite
- Magrilime
- Calcium/Magnesium Blends
- Roadbase and Aggregates

The project area has two distinct operational components i.e. the infrastructure and processing areas and the Dolomite and Limestone Mine site. Activities that occur outside these two key components include: stockpiling of material (NB stockpile located at entry to site from Buckaroo Road within Lot 3 DP 619374), and use and maintenance of the haul road.

The Dolomite mine is predominately located within Lot 102 DP 755418. The Limestone mine is predominately located within Lot 110 DP 755418. Limestone quarrying is not currently carried out within Lot 103 DP 755418, though the land is disturbed in the Lot 103 through overburden stockpiling as well as being the site of the piped water outlet from the sump of the limestone mine. Similarly Lot 120 DP 755418 is also not mined, but is partially disturbed due to the haul road and overburden stockpiling.

The Dolomite mine is located to the north of the Limestone mine, and is accessed by the same haul road. The Limestone mine is the larger operation and is affected by a second order watercourse originating from Mount Knowles.

This review identified the following as risks at MDL:

- Clearing outside of approved areas;
- Un-rehabilitated exploration holes;
- Erosion allowing sediment to leave site;
- Dust management;
- Noise management (blasting);
- Dirty water discharge from site;
- Failure of rehabilitation;
- Bushfire management;
- Security of site; and

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- Community engagement.

After reviewing the definition of a pollution incident the following risks have been identified as requiring further address by this PIRMP.

- Unauthorised discharge of dirty water (esp. sediment laden) and fuels from the site;
- Dust impact on people.

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3.0 PREVENTATIVE ACTIONS

Preventative actions MDL have put into place to minimise the risk of these pollution incidents occurring are outlined below. This information also covers the safety equipment in place and the actions taken to protect the health employees.

3.1 WATER MANAGEMENT

To assist in the management of water and to minimise the risk of unauthorised discharges of dirty water from site, MDL have carried out an independent *Water Management System Independent Audit* in 2011. The audit report addressed recommended improvements to the design and management of water containment structures on site. Also, the design principles and guidelines within *Managing Urban Stormwater Volume 2E Mines and Quarries* have been extensively used to determine measures to be implemented and improved by MDL.

These measures generally include:

- Clean water diversion drains and banks;
- Catch drains;
- Stabilisation through use of vegetation; and
- Sediment dams.

MDL maintain a network of sediment dams and diversion channels (and natural water courses) to achieve segregation of clean and dirty water. Sediment dams are constructed prior to any land disturbance activities occurring and are maintained on an ongoing basis. In channel stability controls such as energy dissipaters and rock stabilisation techniques are used where required.

Sediment dams and other channels are inspected regularly by the Mine Manager. It is the Mine Manager's responsibility to ensure the water management system is effective. The EPL does not permit discharges to air and water and applications to land. There are no monitoring points required under the EPL.

3.2 HYDROCARBON MANAGEMENT

All hydrocarbons at MDL are to be stored in accordance with *AS1940: Storage and Handling of Flammable and Combustible Liquids*. All storage locations are located within Lot 3 DP619374 at the processing site.

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There are spill kits located around site that are available to be used to respond to a pollution incident. These spill kits are strategically located near the hydrocarbon storage areas and contain the following items:

- 2 bags of absorbent material;
- 100 absorbent pads; and
- 2 absorbent booms.

The Mine Manager is responsible to coordinate clean up if there is a hydrocarbon spill. MDL would call for assistance from a waste contractor to dispose of any waste generated.

MDL have an induction process for employees and contractors and as part of this process hydrocarbon management and the response to spills is discussed.

3.3 BLAST MANAGEMENT

MDL are responsible for drilling and have contractors deliver bulk explosives, which MDL load and detonate by qualified staff. To assist in the management of blasting, MDL have developed a Blast Management Plan as part of their MSMP. Blasting will be carried out in accordance with the provisions of the approved plan by qualified personnel. Current qualified employees include:

- Robert Murdoch (Un-Supervised handling Licence # UHL103176),
- Stephen Murdoch (Un-Supervised handling Licence # 01-102997001),
- Terry Quinn (Un-Supervised handling Licence # UHL200047),
- Georgina Sullivan (Un-Supervised handling Licence # 01-107605-001)
- Stanley (Mick) Furney (Blasting Explosive Licence # 05-101170-001)
- Louise Mulholland (Blasting Explosive Licence # XBLS200501)

3.4 DUST MANAGEMENT

MDL utilise water carts for dust control on an ongoing basis as required based on activities being undertaken and environmental conditions. The implementation of dust controls is the responsibility of the Mine Manager.

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4.0 CONTACT DETAILS

The people listed in **Table 1** are authorised to activate this plan and manage the response to a pollution incident. The particulars are 24 –hour contact details.

Table 1: Contact Details for People Responsible for Activating this Plan

Position	Person	Phone Number
General Manager	Robert Murdoch	0438 722 389
Production (Mine) Manager	Will Tremble	0403 332 055

The General Manager and Production Manager have the authority to notify the relevant authorities listed in **Table 2** and the community (including neighbours) of pollution incidents at MDL.

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5.0 COMMUNICATION

5.1 AUTHORITIES

When there is a pollution incident at MDL a number of authorities need to be notified immediately of the pollution incident. The names of these authorities and their contact details are shown in **Table 2**.

Table 2: Contact Details for Authorities

Name	Contact Details
Environment Protection Authority	131 555
WorkCover NSW	13 10 50
NSW Ministry of Health via local Public Health Unit	02 6885 8666 (Dubbo Base Hospital) - ask for Public Health Officer on call, if no answer: Mob: 0418 866 397 - ask for Public Health Officer on call
Mid-Western Regional Council (MWRC)	As per MWRC website all notification of emergencies need to be made to 000
Fire and Rescue NSW	000

5.2 COMMUNITY

Communications with the community will be based on a risk based approach identifying those that may be affected by the pollution incident. As a neighbour and joint road user of the MDL haul road, MWRC General Manager will be notified of any incidents and other activities such as blasting. Written advice will also be provided if interruption to the road access is required.

For water and hydrocarbon related pollution incidents the closest private water user downstream of the operations will be notified of the incident. Refer to **Table 3** for adjoining neighbours details - MWRC. Contact details for other stakeholders are maintained on site and not listed due to privacy.

Table 3: Contact Details for MWRC

Name	Contact Details
Mid-Western Regional Council	Phone: 1300 765 002 or 02 6378 2850 Fax: 02 6378 2815 Email: council@midwestern.nsw.gov.au Postal address: PO Box 156 MUDGEE NSW 2850

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6.0 ACTIONS SURROUNDING AN INCIDENT

6.1 DURING AN INCIDENT

This plan will be activated when:

- A MDL employee witnesses a pollution incident or potential pollution incident and advises their immediate supervisor; or
- A phone call from an external party provides verbal evidence that a pollution incident or potential pollution incident may have occurred at MDL.

The process outlined in **Figure 2** will be followed to respond to a pollution incident.

6.2 FOLLOWING AN INCIDENT

Following a pollution incident at MDL the following actions will occur:

- Notification of relevant authorities;
- Debriefing with personnel directly involved in the pollution incident within 24 hours of the cessation of the pollution incident;
- Internal analysis of the pollution incident;
- Submission of a report to EPA on the pollution incident outlining 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 measure to address the pollution incident.
- Participate in any external investigation of the pollution incident;
- Review the PIRMP for effectiveness; and
- Communicate any changes to the PIRMP.

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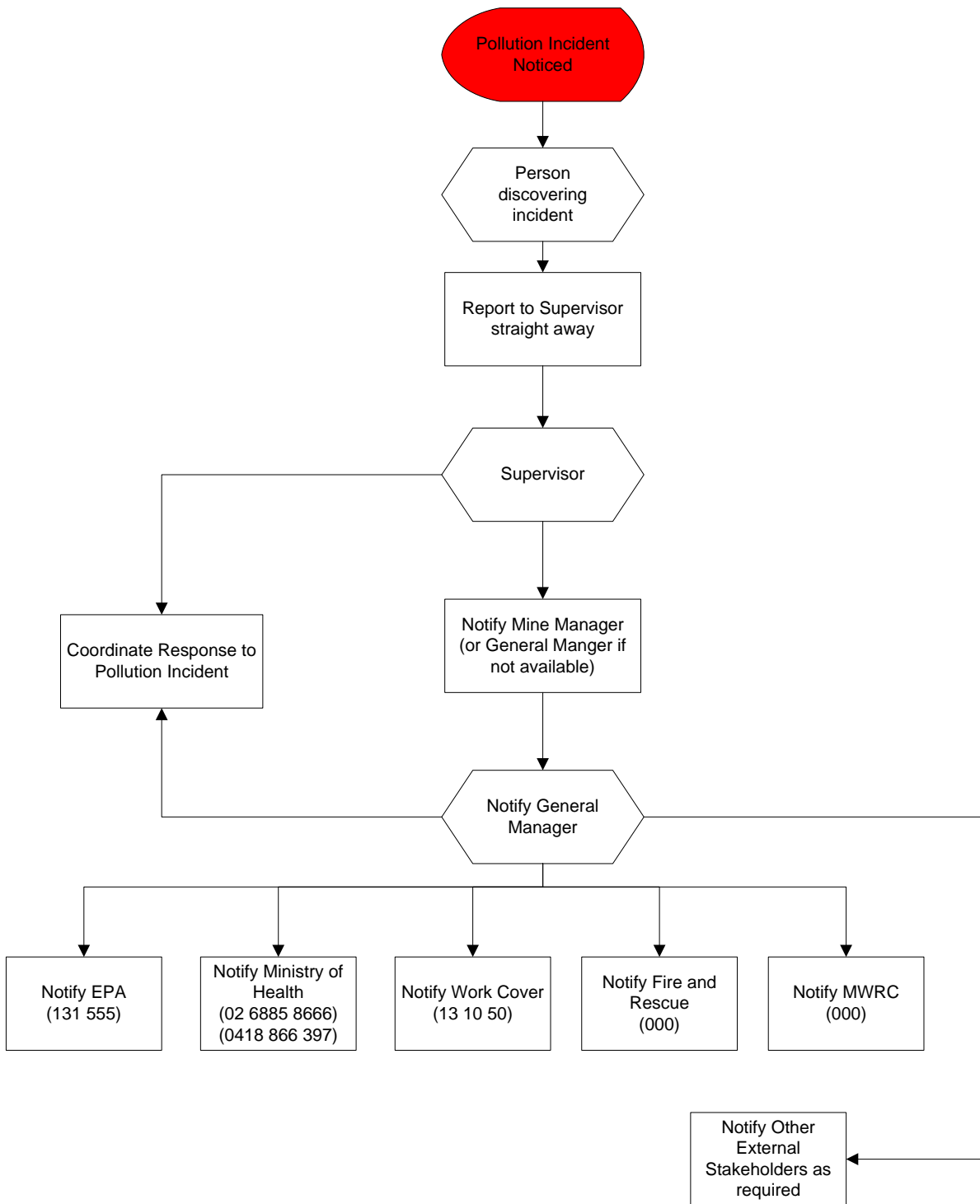


Figure 2: Pollution Incident Response Communication

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7.0 TRAINING AND TESTING

The following actions will be taken to train personnel in responding to pollution incidents and to test the effectiveness of the plan:

- Communication will be provided to personnel about the existence of the PIRMP;
 - Toolbox meetings forum will be used to introduce the PIRMP to employees.
 - A copy of the plan will be made available to employees at the MDL office.
 - The PIRMP will be referred to in the MDL site induction as relevant.
- People with responsibilities in the PIRMP will have these responsibilities communicated to them directly;
- MDL ensure that 'on the job training' is provided to relevant staff for all roles.
- An emergency scenario that addresses one of the identified pollution incidents will be undertaken on an annual basis.

8.0 AVAILABILITY OF PLANS

A copy of this plan will be made available to members of the public on the MDL website:

www.mudgeedolomitelime.com.au

Also, MDL will provide copies on the plan without charge to any person who makes a written request for a copy.

9.0 REVIEW AND TESTING

The PIRMP will be reviewed:

- Annually by MDL management;
- Within 3 months of any changes to licence conditions relating to pollution incidents;
- Following pollution incidents at MDL;
- Following an independent environmental audit which recommends changes to the PIRMP; and
- If there is a relevant change in technology or legislation.

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