



**Pollution Incident Response Management Plan
(Abridged Public Version)**

Environment Protection Licence 5590

710-005-EN-PLA-0021


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DOCUMENT CONTROL

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Document Owner: Director - Environment

APPROVAL

Revision No.	Approval Date	Signature
16		David Coe
		<i>Director – Environment</i>

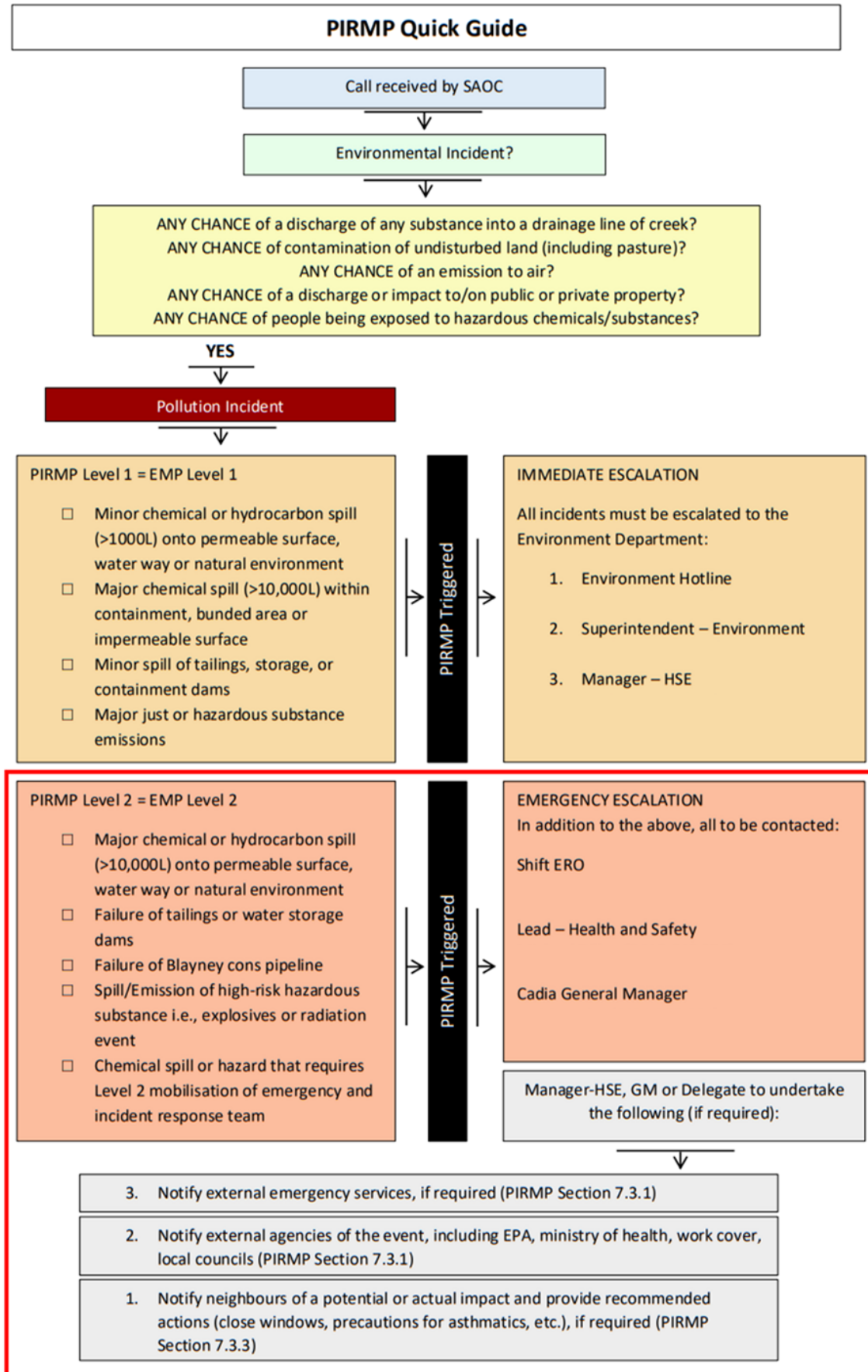


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1. ENVIRONMENT PROTECTION LICENCE 5590

Details of the Environment Protection Licence 5590 are outlined below. A current version of EPL 5590 can be accessed via the website link below.

Name of licensee (including ABN)	Cadia Holdings Pty Limited ABN 95 062 648 006
EPL Number	5590
Premises name and address	Cadia 1460 Cadia Road CADIA, NSW, 2800
Company or business contact details	Cadia Holdings Pty Limited Business hours: 02 6392 2422 24 Hour Community Complaints Hotline: 1800 063 043 Email: cadia@newmont.com
Website address	www.cadiavalley.com.au
Scheduled activity/activities on EPL	<ul style="list-style-type: none"> ➤ Crushing, grinding or separating ➤ Mineral processing ➤ Mining for minerals
Fee-based activity/activities on EPL	<ul style="list-style-type: none"> ➤ Crushing, grinding or separating ➤ Mineral processing ➤ Mining for minerals

2. OVERVIEW

2.1 Scope

This Pollution Incident Response Management Plan (PIRMP) aims to cover preparations and responses to an actual or potential pollution incident associated with Cadia’s mining, exploration and processing activities, including the Molybdenum Plant and the Cadia Dewatering Facility.

This plan should be the primary source of information for pollution incidents and the procedures outlined in Appendix A.14 of this plan should be carried out. If a pollution incident occurs that threatens health and safety of humans, this plan should be used in conjunction with the Emergency Management Plan (EMP).

A copy of this plan must be kept at the licenced premises and be made available on request by an authorised EPA officer and to any person who is responsible for implementing this plan.

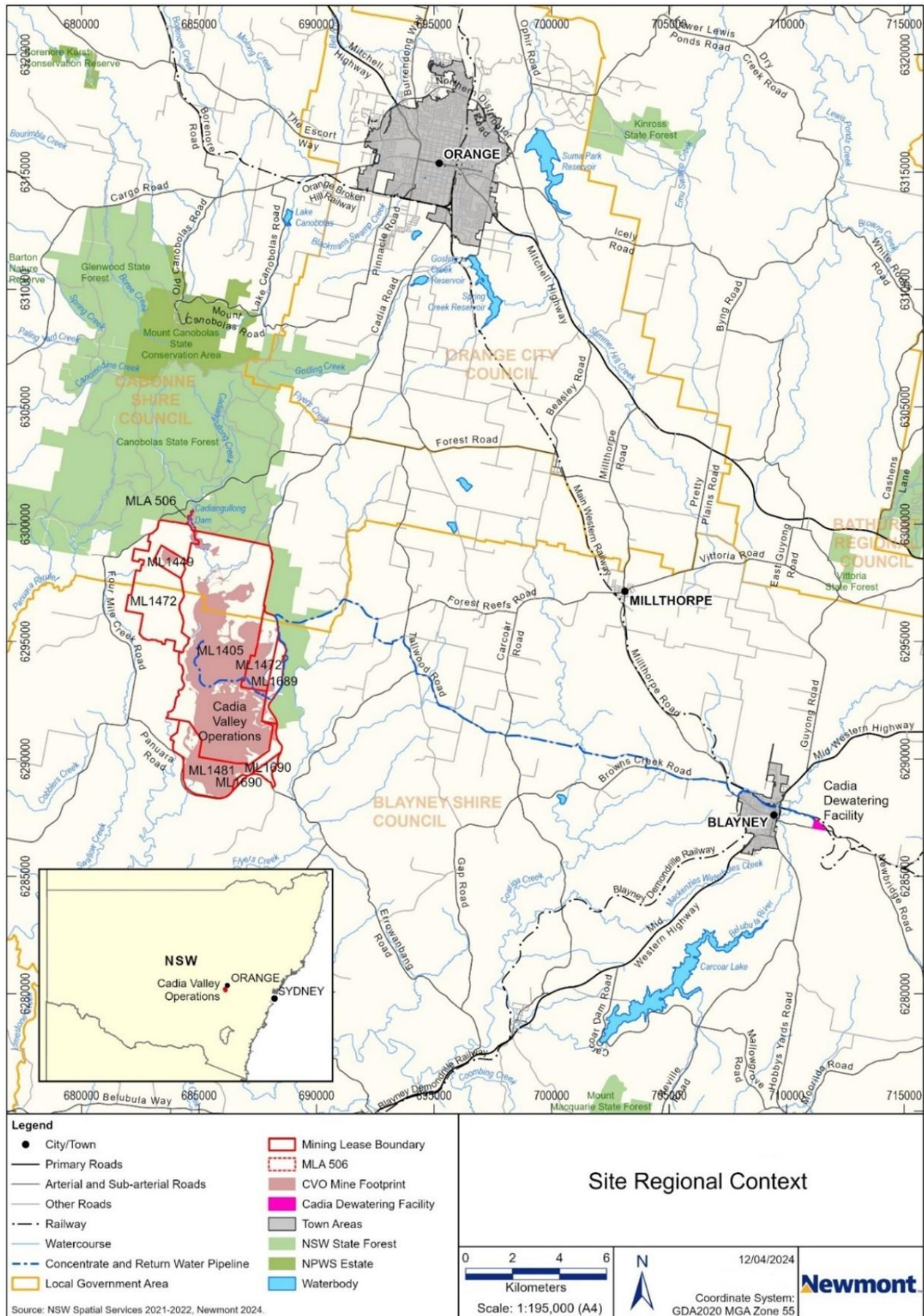
Parts of the plan must also be available either on a publicly accessible website, or if there is no such website, by providing a copy of the plan to any person who makes a written request. The sections of the plan that are required to be publicly available are set out in the clause 98D of the Protection of the Environment Operations (General) Regulation 2009.

This plan does not cover an incident or set of circumstances involving only the emission of any noise (EPA Guidelines 2020). Noise emissions are managed under the industrial noise policy.

2.2 Background

Cadia Holdings Pty Limited (CHPL) operate the Cadia Mine (Cadia), the largest copper and gold producer in New South Wales (NSW) and is one of Australia's largest gold mining operations. Newmont Corporation (Australia) is the owner of Cadia Holdings Pty Limited (CHPL).

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2.3 Mining Context

The Cadia complex comprises the Ridgeway, Ridgeway Deeps and Cadia East mines, minerals processing facilities and associated infrastructure. The Cadia Hill Open cut pit is now utilised for tailings storage while the Ridgeway underground mine is under care and maintenance. Mining commenced in 1998, with current approvals taking the project through to June 2031. The project mines and processes up to 32 million tonnes per annum.

2.4 Ore Processing Context

Ore from Cadia is processed through a plant comprising a crushing, grinding and flotation circuit to produce a gold, copper and molybdenum concentrate. A gravity circuit is also incorporated to recover gold and produce gold doré, which is smelted on-site. The molybdenum is separated from the gold and copper at the Moly Plant using a second flotation step.

The gold-copper concentrate is pumped to a filtration plant approximately 25 km from Cadia to the nearby town of Blayney, where it is dewatered and then loaded onto trains for transport to Port Kembla.

2.5 Pollution Incident

A pollution incident means an incident or set of circumstances during or as a consequence of which there is or 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 the premises, but it does not include an incident or set of circumstances involving only the emission of noise.

Notification of a pollution incident is required if there is a risk of ‘material harm to the environment’, which is defined in section 147 of the 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 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.

Notification is required even where ‘harm to the environment is caused only in the premises where the pollution incident occurs’, as specified in section 147(2).

3. PURPOSE

Cadia Holdings Pty Limited holds an Environment Protection Licence with the NSW Environment Protection Authority (EPA) for Cadia. As per the *Protection of the Environment Operations Act 1997* (the POEO Act), the holder of an Environment Protection Licence must prepare, keep, test and implement a pollution incident response management plan (PIRMP) that complies with Part 5.7A of the POEO Act in relation to the activity to which the licence relates.

In summary, this Plan aims to:

- Minimise the risk of a pollution incident taking place as a result of licenced activities;
- Establish clear and effective notification, action and communication procedures to ensure the correct people are notified, warned and quickly provided with updates and information they may need; and
- Ensure staff are properly trained in the implementation of this Plan to minimise the risk from a potential or actual pollution incident.

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4. ROLES AND RESPONSIBILITIES

Role	Responsibility
All Employees, Contractors and Subcontractors	<ul style="list-style-type: none"> ➤ Report all incidents immediately to their Supervisor; or ➤ Where appropriate, report an emergency
General Manager	<ul style="list-style-type: none"> ➤ Authorise the PIRMP and subsequent updates; ➤ Ensure adequate resourcing for implementing the PIRMP; ➤ Ensure adequate resourcing for training in regards to the PIRMP for all Cadia employees and contractors; ➤ Liaise with the relevant authorities and community members.
Director - Environment	<ul style="list-style-type: none"> ➤ Ensure employees and contractors are notified of updates to the PIRMP and are trained appropriately; ➤ Coordinate communications with relevant authorities; ➤ Manage the response to a pollution incident.
Lead - Environment	<ul style="list-style-type: none"> ➤ Determine the need to notify authorities of pollution incidents and when the PIRMP is activated; ➤ Arrange testing and updating of the PIRMP.
Director - Social Performance	<ul style="list-style-type: none"> ➤ Community and stakeholder communications, a ➤ Maintain and provide contact details for community members
Environment Team	<ul style="list-style-type: none"> ➤ Assist with responding to a pollution incident; ➤ Assist and coordinate with internal communications.
Emergency Response Team	<ul style="list-style-type: none"> ➤ Maintain emergency management procedures relating to combating hazardous material incidents
Emergency Response Officer	<ul style="list-style-type: none"> ➤ Designated role with responsibilities arising from a level 2 pollution incident
Incident Management Team	<ul style="list-style-type: none"> ➤ Deployed if the incident is Level 3 or higher (refer to EMP and reference that section here)

In the event of a pollution incident the Cadia Environment and Social Performance Manager must be called directly or notified via the Site Asset Operations Centre. The roles and descriptions for emergency personnel are detailed in 'Duty Cards' contained in 'Duty Boxes' in the Cadia Emergency Management Plan. A full set of 'Duty Cards' are located at the Cadia Incident Control (Emergency Response) Centre which include:

- A copy of each role's Duty Statement;
- Supporting documentation and paperwork for each role;
- Safety vest with role identification;
- Stationery supplies; and
- Supporting equipment and notes.

Duty Cards for surface evacuations are located at the Incident Control (Emergency response) Room.

5. ACRONYMS

Acronym	Meaning
EPA	NSW Environment Protection Authority
ERO	Cadia Emergency Response Officer
ERT	Cadia Emergency Response Team
EPO	Cadia Emergency Pollution Officer
ICC	Incident Control Centre (Emergency Response Centre)
IMT	Cadia Incident Management Team
PIRMP	Pollution Incident Response Management Plan
SAOC	Site Asset Operations Centre

6. DEFINITIONS

Key Word	Definition
NSW EPA	NSW Authority responsible for managing industry
Immediately	Promptly and without delay
Senior Management	Superintendent level or above

7. NOTIFICATION AND CONTACT DETAILS

7.1 Internal

All pollution incidents must be reported immediately through the Procedure detailed in Section 3.3 of the Emergency Management Plan.

Once the incident has been classified as pollution, the PIRMP is to be activated by the following personnel or their delegate/s.

A summary of internal contacts is provided in the table below.

	Type	Role
PIRMP Activation	Primary	Director - Environment
	Alternate	Lead - Environment
Notify Relevant Authorities	Primary	Director - Environment
	Alternate	Lead - Environment
Management of Pollution Incident	Primary	Director - Environment
	Alternate	Lead - Environment
Notify Neighbours and Community	Primary	Director - Social Performance
Molybdenum Plant	Primary	Superintendent – Final Product
Cadia Dewatering Facility	7-7 Roster	CDF Supervisor A
	7-7 Roster	CDF Supervisor B
Cadia Assay Laboratory	Primary	Superintendent - Assay Laboratory

7.2 External

Persons or authorities who may require notification as per Part 5.7A of the POEO Act in the case of a pollution incident that threatens to cause material harm to the environment are listed in table below.

The Cadia General Manager and the Manager-Environment (or their delegate/s) are responsible and have the authority to notify external authorities of a pollution event at Cadia.

Relevant Authority	Contact Details
Emergency Services	000 (only if fire or rescue services are required)
NSW EPA	EPA Hotline 131 555
Natural Resource Access Regulator	1800 633 362
Ministry of Health	Public Health Hotline: 1300 066 055
Orange Base Hospital	(02) 6369 3000
Poisons Information	13 11 26
NSW Police	000 (in an emergency) Western Region District Office: (02) 6363 6399
Dams Safety NSW	0403 681 645
RMS	13 27 01
SafeWork NSW	13 10 50
Department of Planning, Industry and Environment	Industry: (02) 9338 6600 Planning: 1300 305 695 Environment, Energy and Science: 1300 361 967
NSW Resources Regulator	1300 814 609
Cabonne Shire Council	Business Hours: (02) 6392 3200 After Hours: (02) 6392 3234
Blayney Shire Council	Business Hours: (02) 6368 2104
Orange City Council	Business Hours: (02) 6393 8000 After Hours: 1300 650 511

7.3 Neighbours and Local Community

In the event of an emergency pollution incident, the Cadia Crisis and Incident Communications Standard Operating Procedure (CIC SOP) will be triggered. This will include the develop of an External Communication Plan that incorporates a scene assessment with the affected community members notified accordingly.

The Borealis stakeholder management software tool will be utilised to map stakeholders and develop bespoke contact lists based on the scene assessment. As per the CIC SOP, community members and other stakeholders will be communicated with by the relevant members of the CIC team that has been mobilised in response to the incident. Communication modes may include: group email and texts, via media, individual meetings or phone calls, door knock or letter box drop. Cadia will provide timely initial notifications and regular updates, as a minimum updates will be provided every 24 hours of the initial contact.

8. EMERGENCY RESPONSE

Cadia has an incident control and emergency response station located adjacent to the central access office. The Cadia site emergency response facilities are designed to effectively and safely manage:

- Reporting and recording of communication in the event of an emergency;
- Initial response to an emergency;
- Tactical deployment of services (both internal and external of the mine site); and
- Post-recovery rehabilitation of the mine site.

The Cadia EMP details the various mechanisms for communicating to all site personnel in the event of an emergency. Site emergency communication systems include:

- Radio & telephone; and
- Radio broadcasts, site alarms and stench gas.

The Cadia EMP also outlines the various response equipment and facilities available at Cadia to minimise human harm such as:

- Fully equipped first aid room;
- Incident control centre;
- Site ambulances;
- General rescue vehicles;
- Fire and HAZMAT rescue vehicles;
- Trained first aid personnel; and,
- Over 45 permanent and volunteer emergency response personnel.

In the event of a pollution incident, the ERO and/or an Environment Team member will initially assess the incident from the incident details, and if determined to be a Level 2 incident the Emergency Pollution Officer requirements will be activated including determining if an emergency evacuation is required. The Cadia Emergency Evacuation

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Procedure details site evacuation procedures. Cadia’s general induction process includes site safety rules, hazard management and Cadia’s emergency procedure.

9. INCIDENT MANAGEMENT

The Emergency Call Receiver will notify the environment department or emergency response personnel of the incident according to the guidance below. A quick guide has been placed at the start of this document to assist first responders and call receivers.

Level 1 Incident	Level 2 Incident
Managed by ERO or Environmental Representative with assistance generally limited to incident response personnel only with minimal assistance.	Requires an emergency response, but more significantly, requires the activation and implementation of an Incident Management Team.

Level 1 Incidents: A Cadia Emergency Response Officer and/or a Cadia Environmental Team Member must attend all pollution incidents, irrespective of the minor nature of the event.

Examples of a Level 1 incident include:

- Minor chemical or hydrocarbon spill outside of bunded area;
- Major chemical or hydrocarbon spills within containment, bunded area or impermeable surface;
- Spill of storage or containment dams over spill way post major rainfall event
- Minor leak in Blayney cons pipeline; and,
- Dust lift off events at tailing storage facilities of operational areas

Level 2 Incidents: A Level 2 Incident requires an appropriate emergency response, but more importantly the mobilisation and implementation of an Incident Management Team that is responsible for the control and coordination of the overall site response in co-operation with the Emergency Pollution Officer.

Examples of a Level 2 incident include:

- Major chemical or hydrocarbon spill outside of bunded area;
- Failure of tailings or water storage dams;
- Major failure of Blayney cons pipeline;
- Major release of H₂S gas from the Molybdenum plant; and
- Spill/emission of high-risk hazardous substance i.e. explosives or radiation event;

Whilst the transportation of concentrate from the Blayney Dewatering Plant to the Port Loading Facility is not included in EPL 5590, Cadia would consult with the contractor responsible for transporting and managing the concentrate if there was a pollution incident resulting from this activity. Cadia would request information from the contractor regarding notifications completed to check that it aligns with Cadia reporting requirements.

10. REFERENCES

- NSW EPA (2022). Guideline: Pollution Incident Response Management Plans

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