



Pollution Incident Response Management Plan

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1 Introduction

1.1 Background and Scope

The *Protection of the Environment Legislation Amendment Act 2011* (PELA) received assent on 16 November 2011 resulting in changes to the *Protection of the Environment Operations Act 1997* (POEO Act). The intent of the PELA is to improve the way pollution incidents are reported and managed. Provisions include a requirement for holders of Environmental Protection Licences (EPLs) to prepare, keep, test and implement a Pollution Incident Response Management Plan (PIRMP). The specific requirements for PIRMPs are set out in Part 5.7A of the POEO Act and the *Protection of the Environment Operations (General) Regulation 2009* (POEO(G) Regulation). In summary, this legislation requires the following:

- holders of EPLs must prepare a pollution incident response management plan (section 153A, POEO Act);
- the plan must include the information detailed in the POEO Act (section 153C) and the POEO(G) Regulation (clause 98C) and be in the form required by the POEO(G) Regulation (clause 98B);
- licensees must keep the plan at the premises to which the EPL relates (section 153D, POEO Act);
- licensees must test the plan at least every 12 months and after a pollution incident in accordance with the POEO(G) Regulation (clause 98E); and
- if a pollution incident occurs in the course of an activity so that material harm to the environment is caused or threatened within the meaning of Part 5.7 of the POEO Act, licensees must immediately implement the plan (section 153F, POEO Act).

As the holder of EPL 394, Ulan Coal Mines Pty Limited (UCMPL), incorporating Ulan West, Ulan Underground and Ulan Surface Operations, which are collectively referred to as the Ulan Mine Complex, is required to comply with the POEO Act; as such, this document has been developed to satisfy the PIRMP requirements documented above.

The procedures for notification of pollution incidents resulting in or having the potential to cause material harm to the environment are detailed within this plan. **The notification of environmental incidents under this PIRMP is only required for those incidents causing or threatening to result in material environmental harm (a material harm incident) as defined in the POEO Act (see Section 5.1).**

1.2 Regulatory Requirements

Specific detail is required for inclusion in the PIRMP. **Table 1.1** lists information mandated under Section 153C of the POEO Act and clause 98C of the POEO(G) Regulation and details where this information is located in this document.

Table 1.1 - Regulatory Requirements

Detail Required		Plan Location
(a) ¹	<p>The procedures to be followed by the holder of the relevant EPL in notifying a pollution incident to:</p> <p>(i) The owners or occupiers of premises in the vicinity of the premises to which the EPL relates;</p> <p>(ii) The local authority for the area in which the premises to which the EPL relates are located and any area affected, or potentially affected, by the pollution; and</p>	<p>Section 5.3</p> <p>Section 5.2</p> <p>Section 5.2</p>

¹ POEO Act subs 153C(a)

Detail Required		Plan Location
	(iii) Any persons or authorities required to be notified by Part 5.7 (of the POEO Act).	
(b) ²	A detailed description of the action to be taken, immediately after a pollution incident, by the holder of the relevant EPL to reduce or control any pollution,	Section 4.0
(c) ³	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,	Section 5.2
(d) ⁴	<p>Any other matter required by the Protection of the Environment Operations (General) Regulation 2009 (as set out below):</p> <ul style="list-style-type: none"> a) A description of the hazards to human health or the environment associated with the activity to which the licence relates (the 'relevant activity'). b) The likelihood of any such hazards occurring, including details of any conditions or events that could, or would, increase that likelihood. 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. d) An inventory of potential pollutants on the premises or used in carrying out the relevant activity. 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. 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. g) The names, positions and 24-hour contact details of those key individuals who: <ul style="list-style-type: none"> I. are responsible for activating the plan; II. are authorised to notify relevant authorities under section 148 of the POEO Act; and III. are responsible for managing the response to a pollution incident. h) The contact details of each relevant authority referred to in section 148 of the POEO Act. 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. 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. 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. 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. m) The nature and objectives of any staff training program in relation to the plan. n) The dates on which the plan has been tested and the name of the person who carried out the test. o) The dates on which the plan is updated. 	<p>Section 2.2</p> <p>Section 2.2</p> <p>Section 2.2 Section 2.3</p> <p>Section 4.0</p> <p>Section 3.2</p> <p>Section 5.2 Section 5.2 Section 5.2</p> <p>Section 5.3</p> <p>Section 4.0 Appendix A</p> <p>Section 4.0</p> <p>Section 6.1</p> <p>Section 6.2 Section 8.2 Section 6.2</p>

² Ibid subs 153C(b)

³ Ibid subs 153C(c)

⁴ Ibid subs 153C(d)

Detail Required		Plan Location
	p) The manner in which the plan is to be tested and maintained. ⁵	

2 Premise Details

2.1 Site Details

The Ulan Mine Complex is situated in the central west of New South Wales (NSW). It is located in the Mid Western Regional Council (MWRC) Local Government Area (LGA) near the village of Ulan; approximately 38 kilometres north-northeast of Mudgee and 19 kilometres northeast of Gulgong. UCMPL is a joint venture between Glencore Coal Assets Australia (90 per cent) and Mitsubishi Development (10 per cent). The mining operations at the Ulan Mine Complex are one of a number of mining assets owned and/or managed by Glencore.

The surrounding area which may potentially be impacted by a pollution incident occurring at the Ulan Mine Complex, in addition to the premises itself may include the following:

- landholders adjacent to the mine complex (refer to **Appendix A**);
- downstream water courses (including inundation areas and adjacent landholders): Spring Gully, Ulan Creek, Bobadeen Creek, Curra Creek, Sportsman's Hollow Creek and Moolarben Creek which subsequently flow into the Goulburn River, and Mona Creek and Cockabutta Creek which subsequently flow into the Talbragar River; and
- nearby townships of Ulan village, Mudgee, Gulgong, Merriwa (refer to **Appendix A**).

2.2 Major Hazards

The potential major hazards which have been identified for the Ulan Mine Complex include:

- spills (e.g. hydrocarbon, hazardous chemicals, etc) resulting in land contamination;
- spills (e.g. hydrocarbon, hazardous chemicals, saline or sediment laden water, etc) resulting in water contamination;
- major water discharge (e.g. dam failure, unauthorised discharge);
- fire (e.g. spontaneous combustion fires associated with coal stockpiles);
- explosions (e.g. blasting activities);
- Dust; and
- Fume.

The potential environmental hazards occurring at the Ulan Mine Complex are captured through the Environment and Community Risk Register.

The purpose of these BBRA's is to identify significant sustainable development aspects and impacts across the complex, the risk they pose to operations and the controls necessary to effectively manage them. Management of impacts is prioritised according to the level of risk each aspect is assigned. Once all identified aspects, impacts, risks and management controls have been identified, the Environment & Community (E&C) risks for the Ulan Mine Complex are extrapolated and detailed in the E&C Risk Register (*Appendix B of EMS ULNCX- 111515275- 224*). These documents are prepared and reviewed in accordance with *12.0 Change Standard GCAA-625378177-9979*.

The systematic identification, assessment and management of foreseeable catastrophic (core) hazards is undertaken utilising the adopted Glencore Guideline for catastrophic (core) hazard management *Risk Management GCAA-625378177-2844*.

This process includes:

⁵ POEO (G) Regulation subs 98C (1)

- identifying foreseeable hazards associated with operations at the Ulan Mine Complex;
- assessing Sustainable Development risks using recognised analysis and evaluation methodologies; and
- implementing controls necessary to eliminate or reduce identified catastrophic (core) risks in accordance with the established hierarchy of controls for environmental management.

UCMPL have adopted the **Glencore Fatal Hazards Protocol** for the Ulan Mine Complex. The protocol includes nominated control measures to manage foreseeable catastrophic (core) hazards. The **Glencore Fatal Hazards Protocol** includes hazards that could result in either:

- fatalities;
- irreversible, severe environmental damage; or
- a health or community issue that causes significant long-term harm.

Critical control monitoring occurs at each of the sites in the Ulan Mine Complex each month. This monitoring aims to ensure controls are active and sufficient in managing the core hazards identified for the site.

2.3 Chemicals and Potential Pollutants

Chemicals are included in a central register 'ChemAlert,' available on the site intranet and accompanied by Safety Data Sheets (SDS) as required by work health and safety regulations. Hard copies are available at the stores areas. Dangerous goods locations are shown in **Appendix A**.

The site maintains a Dangerous Goods Notification with WorkCover NSW (attached as **Appendix B**) which specifies the location and quantity of dangerous goods on-site. No explosives are stored on site. When blasting is required for mining activities, explosives are obtained and brought on-site by a licensed contractor.

Facilities that store fuel, oil and hazardous chemicals have been designed in accordance with CAA 11.07 *Hydrocarbon Management - GCAA-625378177-10243*, CAA 11.03 *Water Management - GCAA-625378177-10320* and CAA 11.06 *Erosion and Sediment Control - GCAA-625378177-10323* to incorporate:

- impervious walls and floors;
- sufficient capacity to maintain 110 per cent of the volume of the tank (or 110 per cent volume of the largest tank where more than one tank is stored in the bund);
- walls not less than 250 mm high; and
- have floors graded to a collection sump.

Potential pollutants created as part of mining operations, and thus excluded from registers, include:

- mine tailings;
- mine water (extracted from underground and open cut mine workings);
- sediment laden surface water runoff from disturbed areas; and
- effluent waste.

Appendix A displays the location of potential pollutants including tailings dams, water management infrastructure, licensed water discharge points, waste emplacement areas, effluent ponds and dangerous goods storage locations.

2.4 Mine Dams

Table 2.1 outlines the maximum capacity and operating capacity of Mine Dams within the Ulan Mine Complex (this does not include farm dams). The current level of Mine Dams is monitored via the real time monitoring network Citect which is set up with high level alarms which activate a Trigger Action Response Plan initiated by the Ulan Underground Control Room. The latest Mine Dam levels can be obtained real time from Citect.

Table 2.1 – Mine Dam Volumes

Mine Dam	Maximum Capacity (ML)	Operating Capacity (ML)
Blend Dam	20	20
Bobadeen Dam	502	
Box Cut Sump (Ulan Underground)	4	4
Box Cut Sump Ulan West	Unknown	
Car Wash Dam	8	7
CHPP Lagoons	191	37
Compressor Dam	3	1
Duck Pond Dam	Unknown	
East Pit	24,000	4,000
East Pit Tailings	1,500	80
Leonards Dam	25	
Millers Dam	35	
Moolarben Dam	440	166.5
North West Sediment Dam	37	34
Peanut Dam	92	91
Peters Dam	30	28
Rowans Dam	137	
Shearers Dam	64	63
Truckfill Dam	1	1
Wrights Dam	17	17

3 Management and Responsibilities

3.1 Legal Duty to Notify

Employees and contractors are responsible for alerting management personnel to all environmental incidents or hazards which may result in an environmental incident, regardless of the nature or scale.

Notification responsibilities are detailed in the *POEO Act* (Section 148), which encompasses all site personnel, including contractors and sub-contractors. These can be categorised broadly as:

- The duty of an employee or any person undertaking an activity:

Any person engaged as an employee or undertaking an activity (at Ulan Mine Complex) must, immediately after becoming aware of any potential incident, notify their relevant manager of the incident and all relevant information about it. This is to be undertaken as per **Section 5.2**.

- The duty of the employer or occupier of a premises to notify:
An employer or occupier of the premises on which the incident occurs, who is notified (or otherwise becomes aware of) a potential pollution incident, must undertake notification to the appropriate regulatory authority of any **'material harm incidents'**, including relevant information. Notification shall be undertaken by the Environment and Community Manager or Operations Manager as per **Section 5.2**.

3.2 PIRMP Management

The specific responsibilities associated with the management and implementation of the PIRMP is outlined in **Table 3.1** below.

Table 3.1 - PIRMP Management Responsibilities

Name	Contact Details	Position	Responsibility
Charlie Allan	Work: 02 6372 5306 Mob: 0417 111 207 Charlie.Allan@glencore.com.au	General Manager – UCML Complex Operations and Mine Manager – Ulan No. 3 Underground Operations	Responsible for authorising the PIRMP and all subsequent updates. Responsible for ensuring adequate resourcing for implementation of the PIRMP. Authorised to liaise with the relevant authority. Responsible for undertaking notification as defined in this PIRMP. Responsible for managing the response to a pollution incident.
Elliot Baume	Work: 02 6372 5327 Mob: 0405 067 600 Elliot.Baume@glencore.com.au	Operations Manager – Ulan Underground	Responsible for undertaking notification as defined in this PIRMP. Responsible for managing the response to a pollution incident.
Sam Wiseman	Work: 02 6372 5404 Mob: 0400 369 960 Sam.Wiseman@glencore.com.au	Operations Manager - Ulan Surface Operations	
David Ribaux	Work: 02 6370 9301 Mob: 0419 211 904 David.Ribaux@glencore.com.au	Operations Manager - Ulan West Underground Operations	
Robyn Stoney	Work: 02 6372 5368 Mob: 0418 969 182 Robyn.Stoney@glencore.com.au	Environment and Community Manager – UCML Complex	Responsible for undertaking notification as defined in this PIRMP. Responsible for managing the response to a pollution incident. Responsible for arranging testing and updating of the PIRMP. Responsible for ensuring notification and training of PIRMP. Responsible for coordinating communications with affected community members.

Name	Contact Details	Position	Responsibility
Stephen Hawkins	Work: 02 6372 5199 Mob: 0438 592 105 Stephen.Hawkins@glencore.com.au	Projects and Rehabilitation, Superintendent – UCMPL Complex	Responsible for undertaking notification as defined in this PIRMP. Responsible for coordinating the response to a pollution incident.
Lucy Stuart	Work: 02 6372 5308 Mob: 0413 614 458 lucy.stuart@glencore.com.au	Environment & Community Coordinator – UCMPL Complex	Facilitate site personnel in implementation of the PIRMP. Communication of the PIRMP to site personnel.

3.3 Incident Management

A pollution incident is defined in the *POEO Act* as 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.

Incidents are categorised as per 6.0 Incident (*GCAA-625378177-9992*) which provides guidance to assist with classifying an environmental incident.

The document can be found at:

<http://author.coal.au.glencore.net/sites/coal-assets-australia/layouts/15/WopiFrame.aspx?sourcedoc=/sites/coal-assets-australia/Documents/HSEC/6.0%20Incident.docx&action=default&DefaultItemOpen=1>

In the case of an environmental incident, prior to any other action, the site must contact Fire and Rescue (1300 729 579) if the incident presents an immediate threat to human health or property. Fire and Rescue NSW are the first responders, as they are responsible for controlling and containing incidents. Where there is no threat to human health or services, Fire and Rescue NSW must still be contacted for information purposes, but as the last point of contact as detailed in **Section 5.2**.

All possible actions should be taken to control the pollution incident in order to minimise health, safety and environmental consequences. These actions, to the maximum extent possible, aim to:

- provide for the safety of people at and within the vicinity of the site, and
- contain the pollution incident.

In compliance with 6.0 *Incident Standard GCAA-625378177-9992*, the actions to be implemented at the Ulan Mine Complex on the occasion of an incident include the following:

1. Secure the scene and contain the incident.
2. Immediately notify the relevant Operations Manager as specified in **Section 3.2**, and implement external notifications as appropriate and defined in this plan.
3. Gather information (i.e. environmental monitoring).
4. Determine the investigation level.
5. Commence an ICAM (if required).
6. Review and classify information and determine actions.
7. Complete actions.
8. Trend analysis reports.

Arrangements, including description and location of safety equipment, for minimising risk of harm to people and the environment as result of a pollution incident, and for containing or controlling a pollution incident, are included in the following documentation:

- ULNUG-849165555-85 Emergency Preparedness (Ulan Underground);
- ULNUG-849165555-9622 – Emergency Management Control Plan (Ulan Underground)

- ULWUG-729531900-133 – Emergency Management Plan (Ulan West Underground)
- ULWUG-729531900-472 – Emergency Response Procedure (Ulan West Underground);
- ULNOC-1105874907-3102 - Emergency Preparedness Plan (Ulan Open Cut)
- ULNOC-1105874907-2285 – Emergency Response Control Plan (Ulan Open Cut)

Each management plan documents the roles and accountabilities of key personnel at each operation in the event of an emergency and the contact details for appropriate emergency services. The plans also provide designated evacuation points and procedures in the event of an emergency. Any changes to emergency procedures are documented and communicated to all personnel. These procedures are developed to align with the requirements of the CAA standard 7.0 *Emergency GCAA-625378177-9993*.

Incident management at the Ulan Mine Complex focuses on actions to:

- secure and assign necessary tactical response resources, including equipment and/or personnel, to minimise the environmental impacts associated with the incident;
- establish that tactical response operations are carried out in a safe, well-organised, legal and effective fashion;
- provide for the safety and welfare of all responders, employees, contractors and visitors;
- continuously assess the incident to determine the adequacy of tactical response operations and the need for assistance from the Glencore Crisis Management Team;
- manage stakeholders arriving at site;
- minimise effects on people, the environment, property, production, and company reputation;
- implement an environmental monitoring program to quantify impacts as a result of the incident as well as to be used as the basis to notify adjacent landholders and downstream water users as to whether avoidance or remediation measures are required; and
- interact, as appropriate, with Glencore personnel.

Emergency Management at the Ulan Mine Complex is undertaken in accordance with the Emergency Preparedness and Response Procedures listed above. Trigger Action Response Plans (TARPS) and procedures are identified to manage specific major hazards identified in **Section 2.2. Table 4.1** below provides reference to additional procedures which will be used in the event that a specific hazard requires an emergency response to be initiated.

Table 4.1 - Ulan Mine Complex Hazards and Emergency Response Documentation

Hazard	Ulan Mine Complex Emergency Management Plan - TARP
Spills (e.g. hydrocarbon, hazardous chemicals, etc) resulting in land and or water contamination.	Spill Response Procedure ULNCX-111515275-1745
Major water discharge (e.g. dam failure or inrush).	Moolarben Dam Safety Emergency Plan ULNCX-111515275-857 Withdrawal Conditions ULU SD PLN 0020 (Ulan Underground) Withdrawal Conditions ULWUG-729531900-127 (Ulan West)
Fire (for example spontaneous combustion fires associated with coal stockpiles).	Bushfire Management Plan ULNCX-111515275-2049 Fire or Explosion Principle Hazard Management Plan ULNOC-1105874907-1558 (Surface Operations) Withdrawal Conditions ULU SD PLN 0020 (Ulan Underground) Withdrawal Conditions ULWUG-729531900-127 (Ulan West)
Explosions (only associated with open cut mining activities).	Fire or Explosion Principle Hazard Management Plan ULNOC-1105874907-1558 (Surface Operations)

All Ulan Mine Complex employees and contractors receive emergency preparedness and response training during their site familiarisation induction. UCMPL maintains a dedicated emergency response team who undergo regular training and operational drills. Controls of personal protective equipment and incident containment and control equipment are detailed in the risk assessment documents listed in **Section 2.2**, this includes but is not necessarily limited to:

- emergency spill kits;
- portable pumping infrastructure;
- earth moving plant;
- floating booms and silt curtains; and
- erosion and sediment control materials.

UCMPL has limited authority to undertake pollution management activities on private property, or outside the site boundary and in such cases will liaise directly and provide appropriate assistance to the relevant authority and emergency services.

4 Notification Procedures

4.1 Determination of Material Harm

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 Operations Manager in consultation with the Environment and Community Manager.

It is possible for a **material harm incident** to occur on land that is within the boundary of the EPL.

4.2 Internal and External Notification

As discussed in **Section 3.1**, notification of an environmental incident is the responsibility of all site and contractor personnel. In the instance of identification of an environmental incident or hazard, personnel will report the issue **immediately** to their manager or Task Coordinator, who in turn shall report it **immediately** to the Environment and Community Manager, or any member of the environmental team. Immediately is taken to mean 'promptly and without delay'⁶.

In the event of an incident, response and notification must be undertaken as per **Sections 3.5.8 to 3.5.9.4** of the *Environmental Management Strategy (ULNCX- 111515275- 870)*, which contains the following important information for reporting a pollution incident:

- external notification protocol;
- internal notification protocol; and
- information required to record and report pollution incidents.

The agencies listed in **Table 5.1** must be contacted in the order outlined below:

Table 5.1 PIRMP Notification Requirements

Agency	Contact Details
Fire and Rescue	<p>To be contacted first in this order if the incident presents an immediate threat to human health or property and emergency services are required, or last in this order if emergency response is not required).</p> <p>1300 729 579</p> <p>Back up phone number to the above hotline: (02) 9469 3111</p>

⁶ EPA, *Frequently Asked Questions Regarding the Duty to Notify of a Pollution Incident* (last updated 18 June 2013) <
<http://www.epa.nsw.gov.au/legislation/poefaqsnofity.htm>>

Agency	Contact Details
EPA Record the EPA Notification number for reference in all related correspondence.	131 555 and Press 1 to report a pollution incident. Incident Number:
Ministry of Health	Public Health Line 1300 066 055 (will be transferred to Dubbo Office or Broken Hill) After Hours (17:00 – 08:30) & Weekends On Call: 0418 866 397 Alternative contact: Dubbo Office (02) 6809 8979, or direct to Tim Brokenshire (Manager Dubbo) 0408 692 128 or Gerard Van Yzendoorn (Senior Environmental Health Officer, Bathurst) 0427 204 372.
Mid Western Regional Council	Work Hours: (02) 6378 2850 After Hours: 1300 765 002 (16:30 – 08:00) And send an email confirming incident details to council@midwestern.nsw.gov.au
Department of Planning and Environment (DP&E)	Phone: 1300 814 609 and Press 2, then Press 5. Email: nswresourcesregulator@service-now.com Identify the project as Ulan Coal Mines Pty Limited PA08_0184 and set out the location, nature of the incident and immediate responses undertaken.
Other Stakeholders	Refer to Stakeholder Database

After initial notification of any **material harm incident**, it will be the responsibility of the Environment and Community Manager to liaise with any authority listed in **Table 5.1** that requests additional information, or is providing directions for management of the **material harm incident**. This may include incident investigation reports and ongoing environmental monitoring results. UCMPL must provide written details of the notification to the EPA, DP&E and DRG (in accordance with tenement requirements) within 7 days of the date on which the incident occurred.

Reportable incidents will trigger entries in the actions database as follows:

1. Provide written report to (relevant agencies) within 7 days (detailed reports, as delivered will be uploaded to the actions database to complete this action); and
2. Conduct review of PIRMP within 1 month of incident.

In addition to being detailed in this document, procedures for undertaking internal and external notification are included in Environmental Management Strategy ULNCX- 111515275- 870 (Ulan Complex).

Record keeping of incident details, including investigations and outcomes, will be undertaken in accordance with the *Environmental Management Strategy ULNCX- 111515275- 870*.

4.3 Notification to Local Landholders and Community

Community notification shall be undertaken at the determination of the Environment and Community Manager. Names and contact details of stakeholders, including; (local and downstream residents, Other Agencies such as NPWS) are included in the UCMPL Stakeholder Database. The following notification methodology is proposed to be utilised as required:

- early warnings: same day telephone notification to landholders whom may be affected by the incident over the subsequent 24 hour period; and
- updates: follow up phone calls to all landholders whom may have been notified by the initial early warning. Updates are to be provided to the broader local community in affected areas via information sheets or newsletters, UCMPL website, media statements or any other strategy as defined in the *Stakeholder Engagement Plan (ULNCX-111515275-3537)*.

Priority will be granted to notification of sensitive premises in close proximity such as schools, pre-schools, nursing homes and hospitals. Information provided to the community will be relevant to the incident and may include the following details:

- type of incident that has occurred;
- potential impacts local landholders and the community;
- site contact details; and
- advice or recommendations based on the incident type and scale.

5 Training, Testing and Communication

5.1 Training

Personnel affected by the content of this document will receive instruction or explanation on the relevant parts of the document as per *Environmental Management Strategy* (ULNCX-111515275-870) Appendix 3: Environment and Community Training Needs Analysis.

Incident management and emergency response is included in all Glencore Generic and UCMPL inductions.

A training exercise designed to test the adequacy of emergency preparedness and response is undertaken at least once each year. Training exercises may involve the emergency response team responding to a simulated emergency, but may also include expanded simulations that involve other (or all) site personnel, the UCMPL Incident Management Team and external response agencies (Ambulance, Fire, Mines Rescue etc).

Training records, including the name of the person undertaking training and date of training, are maintained consistent with *ULU SD PRO 0034 Document Control and Records Management*.

5.2 Testing, Review and Maintenance

Testing of the PIRMP will be undertaken to check that the information is accurate and current and that the plan is capable of being implemented in a workable and effective manner. Testing shall be undertaken in the following ways:

1. the PIRMP will be tested by assessing and reviewing it and making any necessary changes as identified. Testing is taken to be either a desktop review or an environmental emergency drill procedure. Testing will include all components of the plan, including training requirements;
2. a review of the PIRMP will occur routinely at least every 12 months. Contact details in this document must be kept current at all times; and
3. the PIRMP will be reviewed within one month from the date of any pollution incident that occurs in the course of an activity to which the EPL relates. This review will be undertaken in light of the incident, to provide the information included in the plan is accurate and up to date and the plan is still capable of being implemented in a workable and effective manner.

PIRMP testing records will be kept in accordance with:

- *ULU SD PRO 0034 Document Control and Records*; and
- Section 7 of this plan.

Information to be retained regarding PIRMP testing includes:

- the manner in which the test was undertaken;
- dates when the plan has been tested;
- the person who carried out the testing; and
- the date and description of any update of or amendment to the plan.

5.3 Availability of the PIRMP

The PIRMP shall be kept in written form at the EPL premises and shall be made available to all personnel responsible for implementing the plan, and to an authorised officer (as defined in the POEO Act) on request.

The PIRMP will be made publicly available within 14 days of finalisation (taken to be authorisation of the PIRMP by the UCMPL General Manager) via the UCMPL website, in a prominent position and on a publicly available page.

No personal information (within the meaning of the *Privacy and Personal Information Protection Act 1998*) will be made publicly available as part of the PIRMP.

6 Review Register

Date of Test	Name of Personnel Undertaking Test	Manner of Testing	Summary of Changes (include brief details and section number)	Date of Update
25/9/12	Robyn Stoney (ECM), Leigh Hodge (SDSO)	Environmental emergency drill as per section 6.2 following notified incident EPA ref.no. 10181 (notification date 29/08/2012, letter report 05/09/2012)	Notify personnel of legislative requirements and new procedures of the PIRMP. Update Spill Response Plan to link to the PIRMP; update flow chart and load onto internet. Review logged in XstraSafe as # 132,634.	16/10/12
09/11/12	Leigh Hodge (SDSO), Tara Stokes (ECO)	Desktop review as per Section 6.2 following notified incident EPA ref.no. 11804 (notification date 11/10/2012, letter report 18/10/2012)	Formatting and minor content changes to the PIRMP, Pollution Incident flow chart and Spill Response Plan; logged as Xstrasafe # 143,461.	09/11/12
02/5/2013	Leigh Hodge (SDSO); Robyn Stoney (ECM)	Desktop review as per Section 6.2 routine test	Minor formatting changes including linking document to the XC Environmental Incident Matrix guideline.	02/05/2013
15/5/2013	Leigh Hodge (SDSO), Elizabeth Ruppe (ECG)	Desktop review as per Section 6.2 following notified incident on 01/05/2013 (letter report 10/05/2013 (as agreed with EPA to delay report timeframe).	Minor content changes to Section 5.2 to improve readability and flow; addition of MWRC email notification in Table 5.1. Updated contact details for USO Operations Manager.	15/05/2013
28/05/2013	Leigh Hodge (SDSO); Robyn Stoney (ECM)	Desktop review as per Section 6.2 following notified incident on 21/05/2013 letter report 28/05/2013.	No Updates Required.	28/05/2013
20/9/2013	Leigh Hodge (SDSO); Robyn Stoney (ECM)	Desktop review as per 6.2 routine testing.	Routine review and test. Updated Corporate names and contact details; reference documents checked and updated; regulatory contact details checked and updated; web based reference links checked and updated; updated legal requirements; updated training TNA and review register.	20/09/2013
02/12/2013	Robyn Stoney (ECM); Ian Flood (ECC); Leigh Hodge (SDSO)	Environmental Emergency drill review as per Section 6.2 following notified incident EPA Ref: C17185 (notification	Review and test document changes made to: Remove Xstrata branding; repair footer; Insert Department of Resources & Energy to table 5.1; Improve section number references in table 1.2; minor content update; Insert Senior Environment &	02/12/2013

Date of Test	Name of Personnel Undertaking Test	Manner of Testing	Summary of Changes (include brief details and section number)	Date of Update
		date 14/10/2013, letter report date 21/10/2013)	Approvals Coordinator role into table 3.1; Content updates to UCMPL Pollution Incident Notification Flow Chart.	
08/04/2014	Leigh Hodge (SDSO); Damien Ryba (ECG)	Desktop review as per Section 6.2 following notified incident on 30/3/2014.	Routine review and test in light of incident. Reference documents checked and updated; web based links checked and updated; updates to UCML contacts in Table 3.1; other minor formatting and updates to improve readability and functionality of the document.	08/04/2014
07/08/2014	Leigh Hodge (SDSO); Stephen Shoemsmith (ECO)	Test and review as per Section 6.2 routine annual test.	Updates made to contact details for Ulan Complex General Manager, Emergency contact details contacted and updated where necessary. All referenced documents reviewed and updated where necessary.	07/08/2014
10/08/2015	Tom Frankham (ECO)	Test and review as per Section 5.2.	Updates made to contacts for Ulan Complex, General manager of Ulan No.3; Emergency contact details updated where required; All reference documents reviewed and updated where necessary.	10/8/15
13/11/2015	Stephen Shoemsmith, Robyn Stoney	Post Incident Review #C14006_2015	Updated contact numbers and included other stakeholder rows.	13/11/2015
08/08/2016	Robyn Stoney (ECM)	Test and review as per Section 5.2.	Test of notification process undertaken. EPA reference no. 00344045. Document and references reviewed. Appendix A – PIRMP flow chart updated.	10/8/16
14/08/2017	Rebecca Shanks (ECO)	Test and review as per Section 5.2.	Test of notification process undertaken, minor amendment made to notification process for Mid Western Regional Council. References reviewed and updated where necessary	14/08/17
24/07/2018	Justin Russell (ECO)	Test and review as per Section 5.2.	Test of notification process undertaken. Update to Table 3.1 – Replacement Contact for UCML. Update to table 5.1 replacement contacts and phone number changes.	25/07/2018
24/07/2019	Tara Stokes	Test and review as per Section 5.2.	Test of notification process undertaken.	26/07/2019

Date of Test	Name of Personnel Undertaking Test	Manner of Testing	Summary of Changes (include brief details and section number)	Date of Update
15/05/2020	Kellie Smith (ECO)	Test and review as per Section 5.2	<p>Test of notification process undertaken. Scenario: Sucker truck cleaning out sumps had valve burst causing approximately 2000L of contaminated sludge to spill to ground close to the Bobadeen Creek flow line. EPA Reference # 0092615. Revisions include updated to Table 3.1 - Ulan Underground Operations Manager Elliot Baume. Update to Table 5.1 – Ministry of Health: removal of Ingo Steppat and addition of Tim Brokeshire and Gerard Van Yzendoorn; Safework: removal of notification due to no requirement to notify under s38(8) of the <i>Work Health and Safety Act 2011</i> No. 10 (NSW); DPI&E: removed contact details for Katrina O'Reilly and Stephen Clipperton and added new details as advised by Stephen Clipperton.</p>	19/05/2020

7 Control and Revision History

Relevant legislation, standards and other reference information must be regularly reviewed and monitored for updates and should be included in the site management system. Related documents and reference information in this section provides the linkage and source to develop and maintain site compliance information.

7.1 Document Information

For a complete list of document properties, select **View Properties** from the document's context menu on the intranet.

Table 6.1 – Document Information

Property	Value
Approved By	Environment & Community Manger
Document Owner	Environment & Community Manager
Keywords	Pollution Incident response spill emergency environment

7.2 Revisions

Full details of the document history are recorded in the document control register, by version. A summary of the current change is provided in **Table 7.1** below.

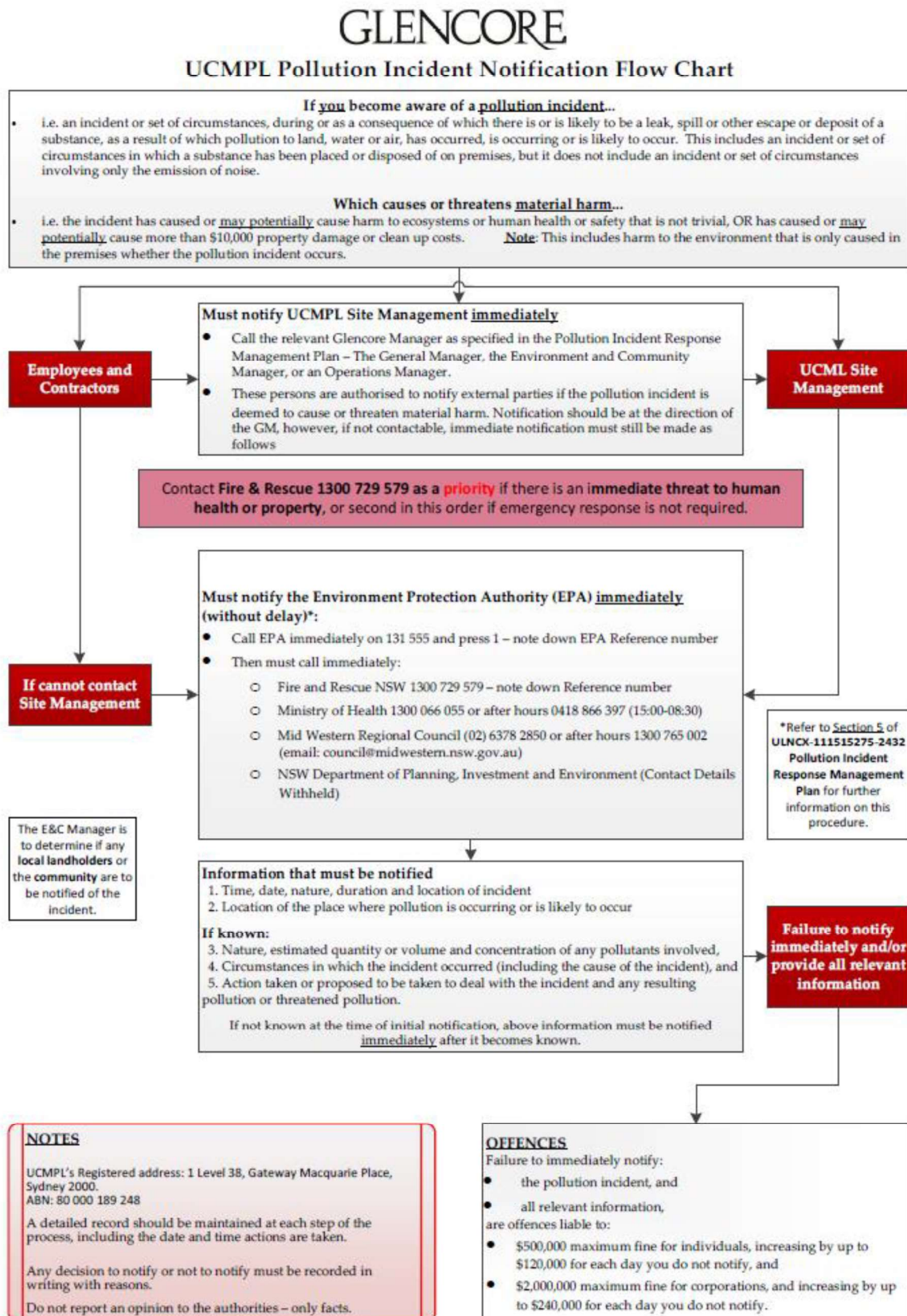
Table 7.1 – Change information

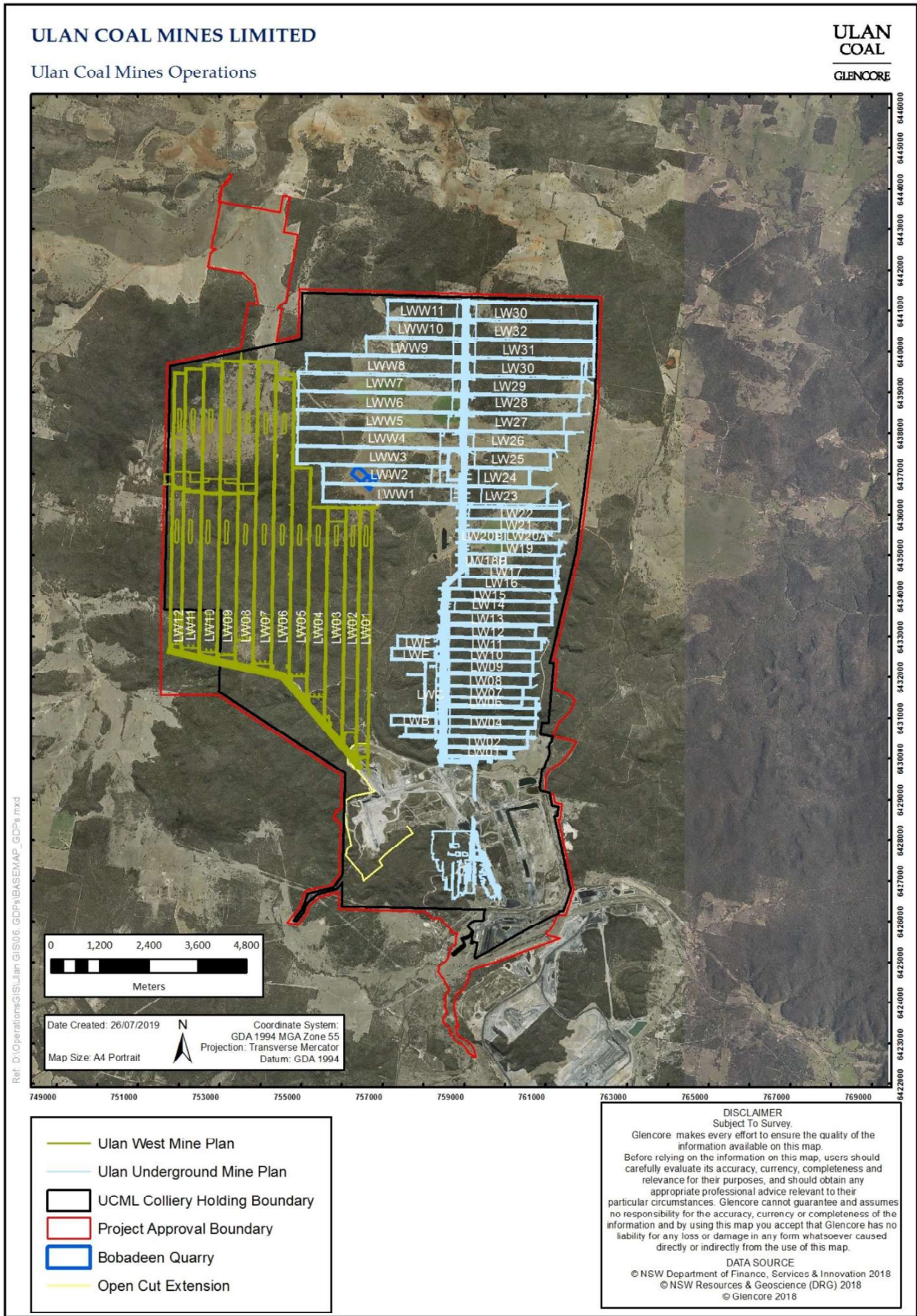
Version	Date	Review team (consultation)	Change Summary
1	09/08/2012	Umwelt, Robyn Stoney (ECM), Tara Stokes (ECO)	New Plan required under <i>Protection of the Environment Legislation Amendment Act 2011</i> (PELA).
2	16/10/12	Leigh Hodge (SDSO)	Test conducted 25/9/2012 in response to reported incident. Updated Section 7 to include details of environmental emergency drill and review performed.
2.1	09/11/12	Leigh Hodge (SDSO)	Minor updates to content for desktop review.
3	23/11/12	Leigh Hodge (SDSO)	Changes made to emergency contact phone numbers.
4	13/03/2013	Leigh Hodge (SDSO)	Update to Fire & Rescue contact number as advised by the EPA.
5	02/5/2013	Leigh Hodge (SDSO)	Routine review and test of document. Included link to the XC Environmental Incident Matrix guideline.
6	15/5/2013	Leigh Hodge (SDSO), Elizabeth Ruppe (ECG)	Minor content changes to Section 5 and updated USO Operations Manager details for desktop review following environmental incidents.

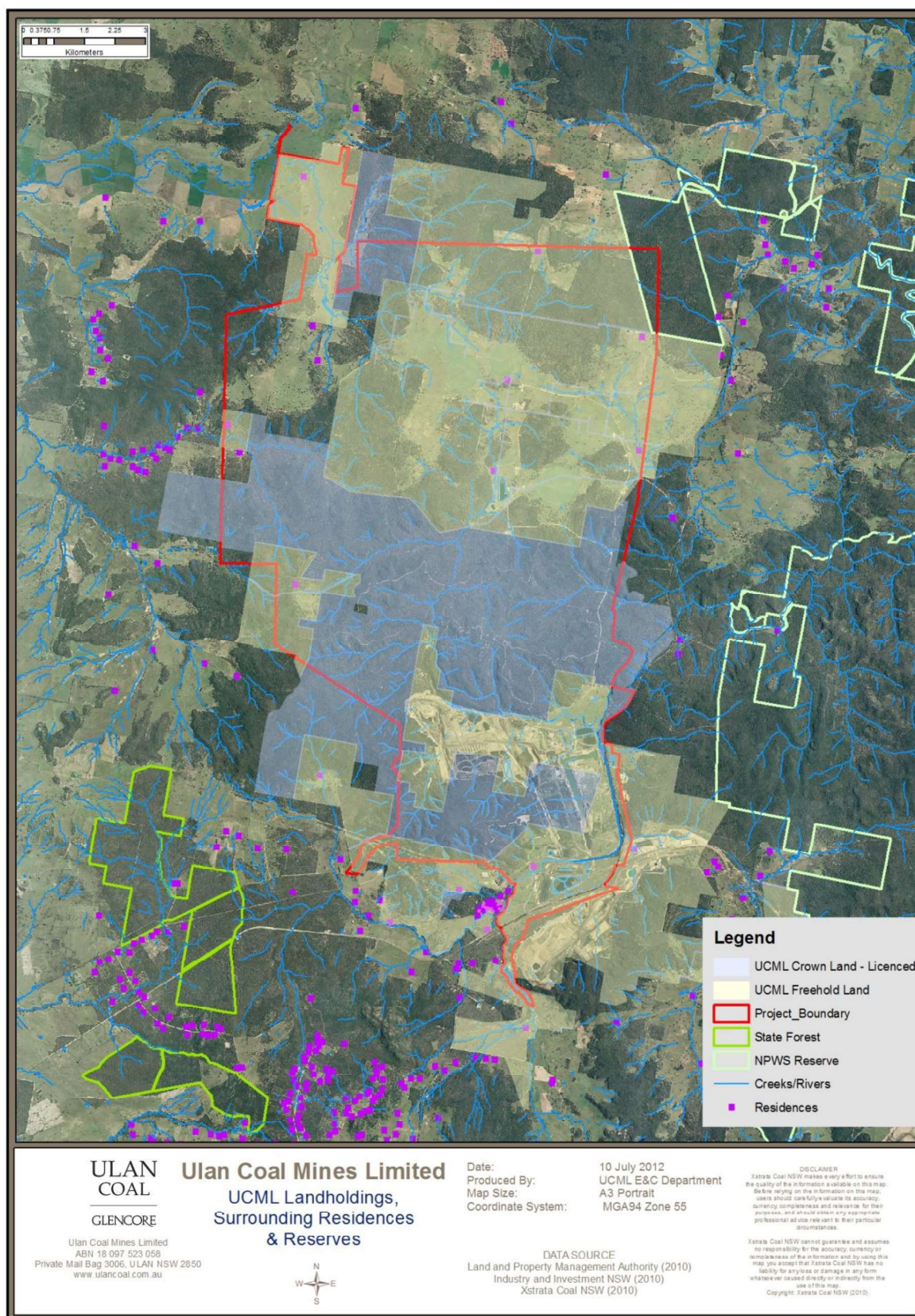
Version	Date	Review team (consultation)	Change Summary
7	10/09/2013	Robyn Stoney (ECM)	Audit review: Reportable incidents will trigger three entries in site compliance management system (CMO) as follows: 1. Provide written report to (relevant agency) within 7 days 2. Copy and save detailed reports, (as delivered) to CMO 3. Conduct review of PIRMP within 1 month of incident.
7.1	20/09/2013	Robyn Stoney (ECM), Leigh Hodge (SDSO)	Routine review and test of document, various updates made to content.
8	02/12/2013	Robyn Stoney (ECM), Ian Flood (ECC), Leigh Hodge (SDSO)	Test and review of document following reportable incident on 14/10/2013, various updates made to content.
9	20/1/2014	Ian Flood (ECC), Leigh Hodge (SDSO)	Update to maps of potential pollutant locations
10	31/1/2014	Robyn Stoney (ECM)	Inclusion of Dangerous Goods storage notification as appendix
11	13/03/2014	Leigh Hodge (SDSO)	Update of contact details for Department of Planning & Infrastructure.
12	08/04/2014	Leigh Hodge (SDSO); Damien Ryba (ECG)	Routine test and review of document following reportable incident on 30/03/2014. Refer to Review Register for document updates.
13	07/08/2014	Leigh Hodge (SDSO); Stephen Shoesmith (ECO)	Annual test and review of document. Refer to Review Register for document updates.
14	17/02/2015	Eliza LeBrocq (SDSO)	Updated internal staff contact details, removed reference to Xstrata and replaced with Glencore, updated document properties – keywords.
15	10/8/15	Tom Frankham (ECO)	Updated contact details of Ulan No.3 General Manager and Department of Planning and Environment.
16	13/11/2015	Stephen Shoesmith	Post Incident Review C14006_2015.
17	1/02/2016	Robbie Mills	Updated contact details of Ulan No.3 Operations Manager, removed Xstrata logo from figures in Appendix A and replaced with Glencore logo
18	23/05/2016	Angela van der Kroft	Added notification flowchart to Appendix and removed reference to Xstrata Protocols.
19	10/08/2016	Robyn Stoney	Amended notification flowchart, minor wording modification.

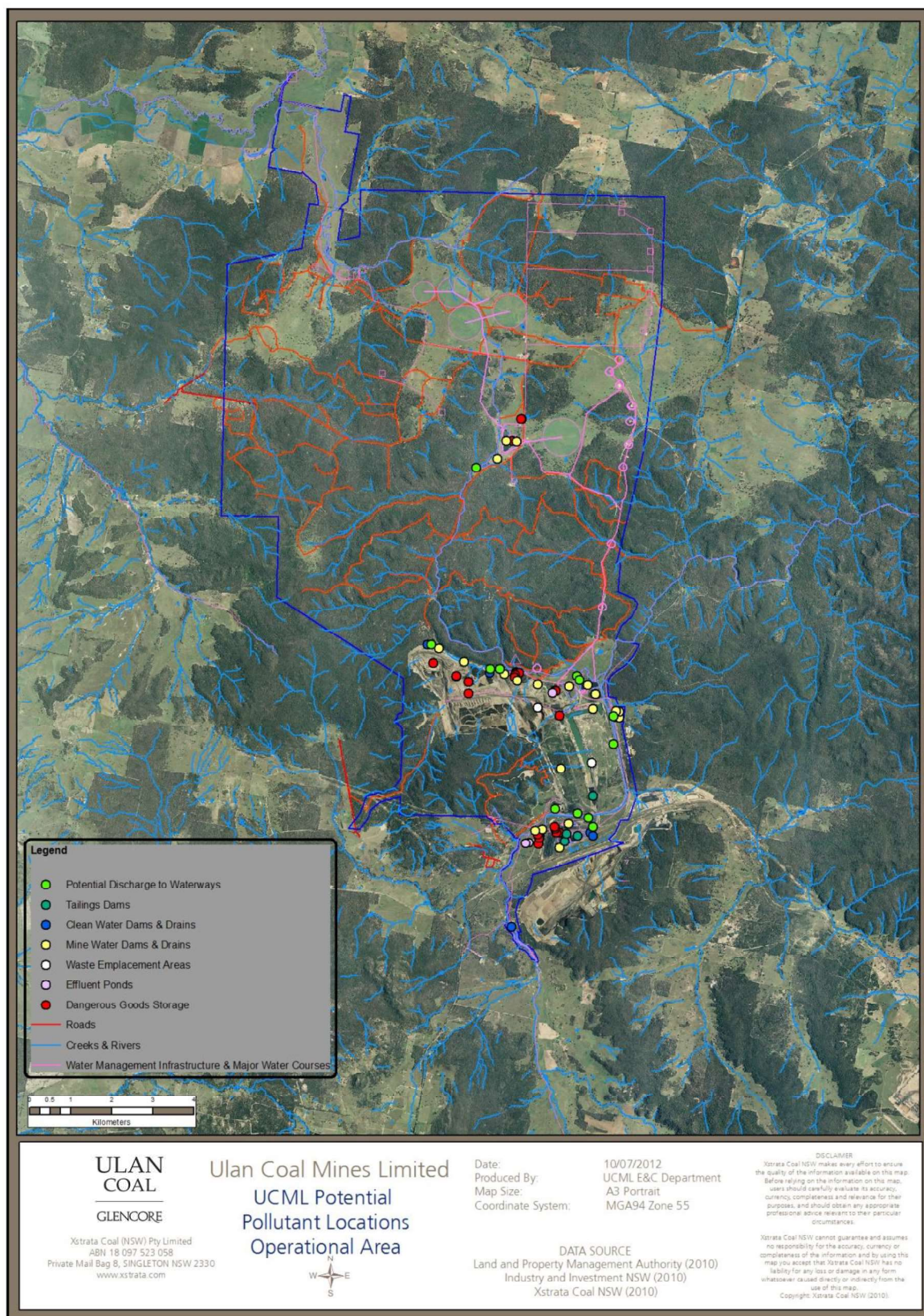
Version	Date	Review team (consultation)	Change Summary
20	18/11/2016	Angela van der Kroft	Updated Notification of Dangerous Goods on Premises
21	21/04/2017	Tara Stokes	Updated plan to include section 2.4 Mine Dams in response to EPA Audit recommendation.
22	23/04/2018	Rebecca Croake	Updated internal staff contact details.
23	24/07/2018	Justin Russell	Updated internal staff, DPE and Ministry of Health contact details.
24	12/11/2018	Tara Stokes	Updated internal document references
25	31/05/2019	Tara Stokes	Correct CA email address and new contact for DP&E. Addition of 7 day report to DRG in accordance with Mining Tenements.
26	26/07/2019	Tara Stokes	Updated Section 6 for test conducted 24/07/2019
27	9/08/2019	Tara Stokes	Addition of complaince@planning.nsw.gov.au address and instructions of notification to DP&E notification as per updated Schedule 5, Condition 6 of MOD4 issued PA08_0184.
28	19/05/2020	Kellie Smith	Notification test: updates to Table 3.1, Table 5.1 and Section 6 to record test. Update to Appendix A Incident Notification Flowchart.

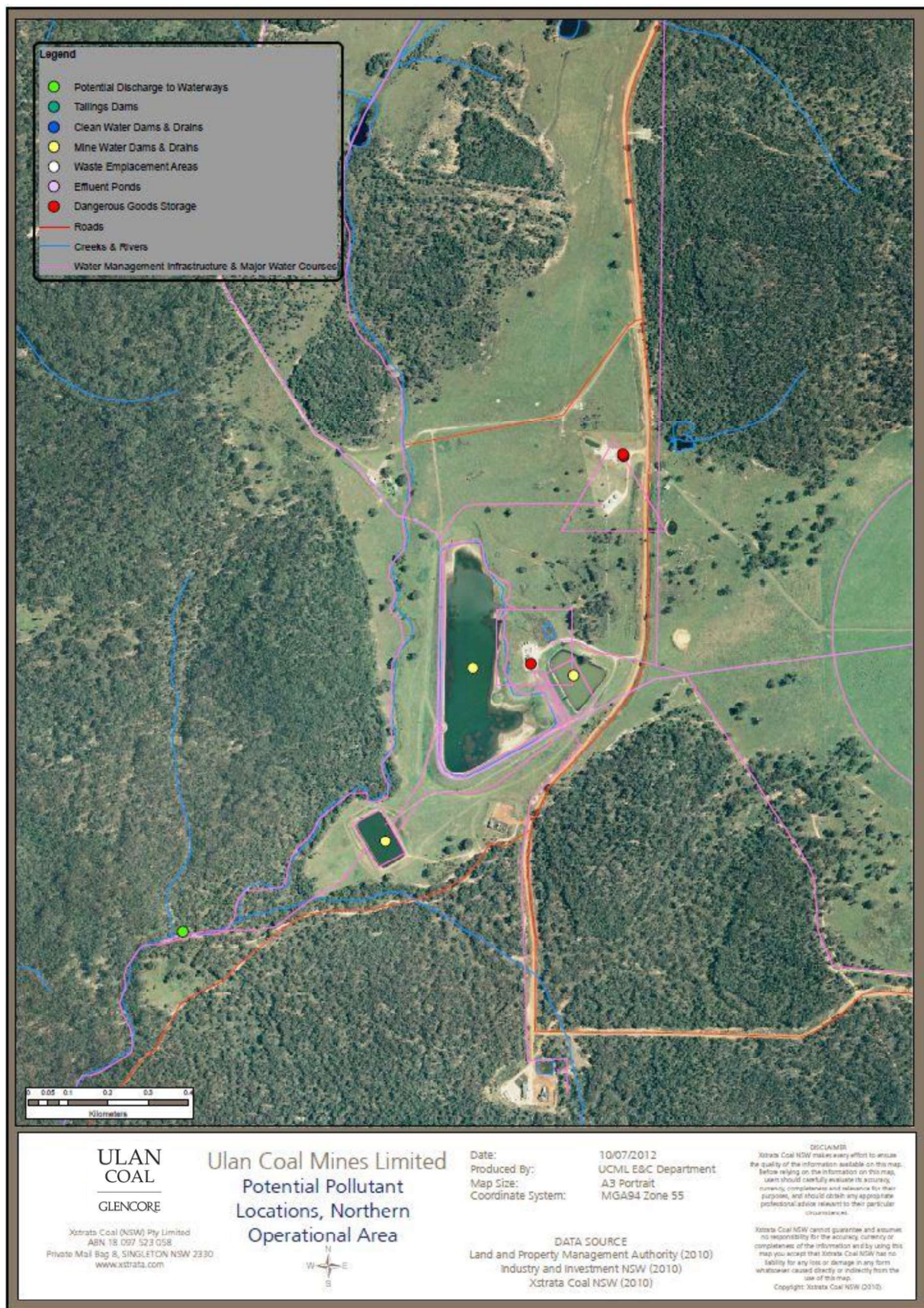
Appendix A - Figures

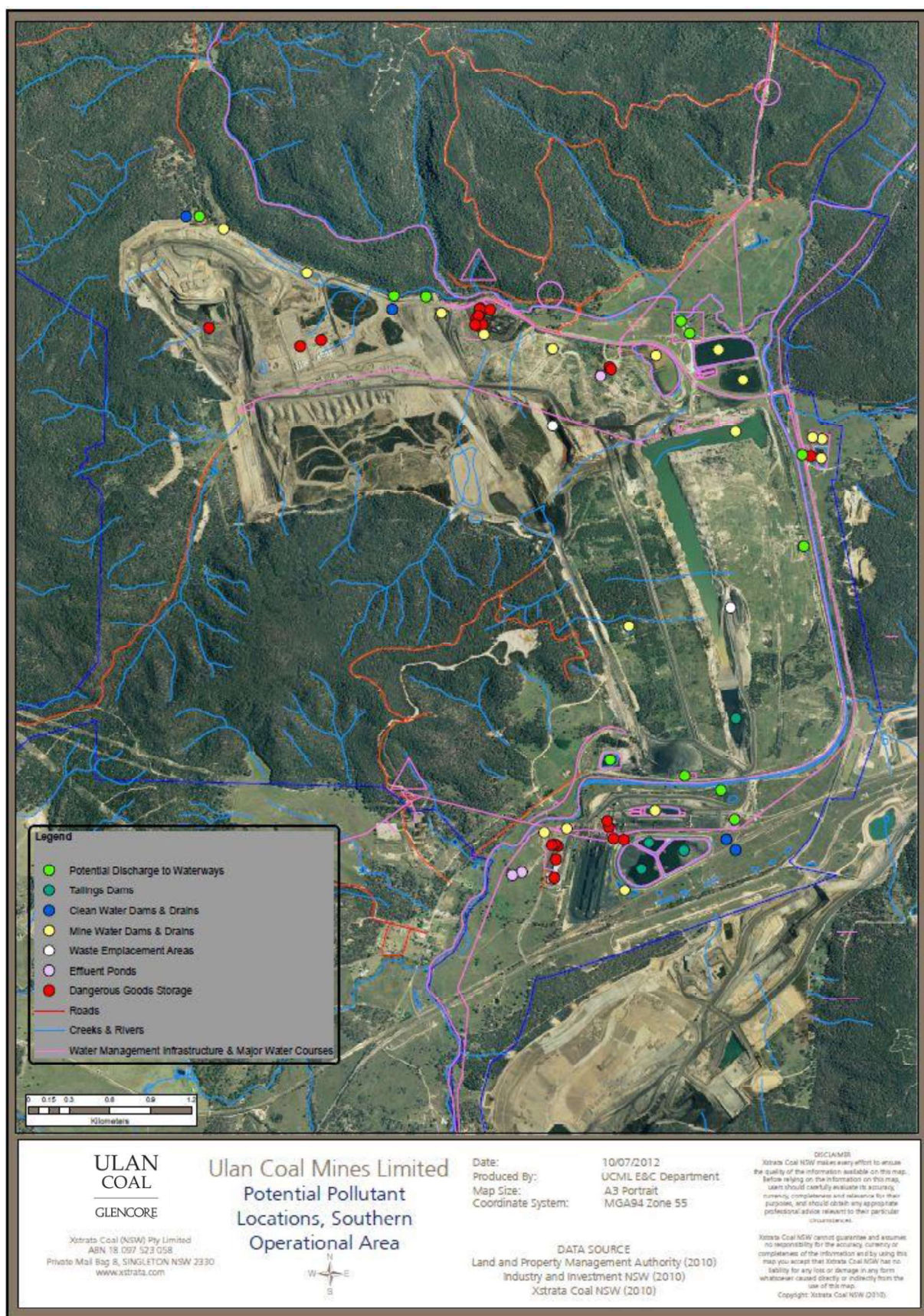












Appendix B - Dangerous Goods Notification



WorkCover NSW
92-100 Donnison Street, Gosford, NSW 2250
Locked Bag 2906, Lisarow, NSW 2252
T 02 4321 5000 F 02 4325 4145
WorkCover Assistance Service 13 10 50
DX 731 Sydney workcover.nsw.gov.au

Customer Service Centre – Operations
Ph: 13 10 50 Fax: 02 9287 5500

10 May 2016

ULAN COAL MINES LIMITED
Private Bag 3006
MUDGEES NSW 2850

ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS CHEMICALS ON PREMISES

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE WORK HEALTH AND SAFETY
ACT 2011 AND REGULATION THEREUNDER

Acknowledgement Number NDG023149

Issued To ULAN COAL MINES LIMITED

Trading as

Premises where notified hazardous chemicals are stored/handled

4505 Ulan Rd, ULAN NSW 2850, AUSTRALIA

Emergency Contacts for this site:

1. Robyn Stoney

Ph: 02 6372 5368

Site Staffing Site Hours: Site Hours: 24 HRS 7 DAYS / 931 STAFF

This acknowledgement must be retained as PROOF OF NOTIFICATION
You must notify WorkCover of applicable changes, specified in the Work Health and Safety
Regulation 2011, to the Hazardous Chemicals used, handled or stored on these premises.

WC03116 0611





WorkCover NSW
92-100 Donnison Street, Gosford, NSW 2250
Locked Bag 2906, Lisarow, NSW 2252
T 02 4321 5000 F 02 4325 4145
WorkCover Assistance Service 13 10 50
DX 731 Sydney workcover.nsw.gov.au

Issued To ULAN COAL MINES LIMITED
Acknowledgement Number NDG023149

10 May 2016

Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)		
17	Above Ground Tank	50000L		
UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
00C1	DIESEL	C1	40000L	
Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)		
59	Above Ground Tank	104000L		
UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
00C1	DIESEL	C1	80000L	
Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)		
60	Roofed Store	4000L		
UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
1830	SULFURIC ACID	8	1000L	II
1791	HYPOCHLORITE SOLUTION	8	1000L	II
1824	SODIUM HYDROXIDE SOLUTION	8	1500L	II
Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)		
62	Above Ground Tank	100000L		
UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
00C1	DIESEL	C1	98000L	
Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)		
63	Above Ground Tank	100000L		
UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
00C1	DIESEL	C1	98000L	
Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)		
64	Roofed Store	6000L		
UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
1824	SODIUM HYDROXIDE SOLUTION	8	2000L	II

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WC03116 0611

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Page 3



WorkCover NSW
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WorkCover Assistance Service 13 10 50
DX 731 Sydney workcover.nsw.gov.au

Issued To ULAN COAL MINES LIMITED
Acknowledgement Number NDG023149

10 May 2016

Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)		
65	Above Ground Tank	50000L		
UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
00C1	DIESEL	C1	48000L	
Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)		
66	Roofed Store	6000Kg		
UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
1490	POTASSIUM PERMANGANATE	5.1	6000Kg	II
Storage ID	Storage Type	Maximum Storage Capacity (Kg/L)		
67	Roofed Store	54000L		
UN Number	Product Name	Class/Division	Typical Quantity	Packing Group
1791	HYPOCHLORITE SOLUTION	8	12000L	III
1824	SODIUM HYDROXIDE SOLUTION	8	42000L	II

WC03116 0611

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