



**For Notification Procedures, please turn to Section 5**

# Pollution Incident Response Plan

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# 1. Introduction

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 2904, the Liddell Coal Operations (LCO) is required to comply with the POEO Act; as such, this document has been developed to satisfy the PIRMP requirements documented above.

This document also details the procedures for notification of pollution incidents resulting in or having the potential to cause material harm to the environment. ***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).***

## 1.1 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.

Section 153C	Detail Required	Location in Document
(a)	The procedures to be followed by the holder of the relevant EPL in notifying a pollution incident to:  (i) The owners or occupiers of premises in the vicinity of the premises to which the EPL relates, and  (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  (iii) Any persons or authorities required to be notified by Part 5.7 (of the POEO Act).	Section 5.2  Section 5.1  Section 5.2

Section 153C	Detail Required	Location in Document
(b)	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)	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)	Any other matter required by the Protection of the Environment Operations (General) Regulation 2009 (as set out below): 98C (1)(a) A description of the hazards to human health or the environment associated with the activity to which the licence relates (the “ <b>relevant activity</b> ”).	Section 2.2
	98C (1)(b) The likelihood of any such hazards occurring, including details of any conditions or events that could, or would, increase that likelihood.	Section 2.2
	98C (1)(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.	Section 2.2
	98C (1)(d) An inventory of potential pollutants on the premises or used in carrying out the relevant activity.	Section 2.2
	98C (1)(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.	Section 2.2
	98C (1)(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.	Section 4.0
	98C (1)(g) The names, positions and 24-hour contact details of those key individuals who: (i) are responsible for activating the plan, and (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.	Section 3.2 Section 5.2
	98C (1)(h) The contact details of each relevant authority referred to in section 148 of the POEO Act.	Section 5.1
	98C (1)(i)	

Section 153C	Detail Required	Location in Document
	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.	Section 5.2
	98C (1)(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.	Section 4.0
	98C (1)(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.	Section 2.1 Section 2.2 Appendix A
	98C (1)(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.	Section 4.0
	98C (1)(m) The nature and objectives of any staff training program in relation to the plan.	Section 6.1
	98C (1)(n) The dates on which the plan has been tested and the name of the person who carried out the test.	Section 6.2
	98C (1)(o) The dates on which the plan is updated.	Section 6.2
	98C (1)(p) The manner in which the plan is to be tested and maintained.	Section 6.2

*Table 1-1 Information required to be included in the PIRMP*

## 2. Premises Details

### 2.1 Site Details

Liddell Coal Operations (Liddell) is located approximately 25 kilometres northwest of Singleton in the Hunter Valley of New South Wales. Liddell is operated by LCO on behalf of the Liddell Joint Venture between Glencore (67.5 per cent) and Mitsui Matsushima Australia Pty Ltd (32.5 per cent) (MMA). Open cut mining operations are undertaken at Liddell twenty-four hours a day, seven days a week. Operations at Liddell also incorporate coal handling infrastructure which includes a coal handling and preparation plant (CHPP), conveyors, truck and excavator operations, stockpiles, rail loading facilities and administration buildings.

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

- landholders adjacent to the mining operations (refer to Appendix A);
- Lake Liddell and downstream water courses (including inundation areas and adjacent landholders): Bayswater Creek and Bowmans Creek, which subsequently flow into the Hunter River; and
- nearby townships of Camberwell village, Singleton and Muswellbrook (refer to Appendix A).

## 2.2 Major Hazards

The potential major hazards which have been identified for Liddell 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;
- water pollution (e.g. dam failure, groundwater contamination, uncontrolled discharge);
- fire (e.g. spontaneous combustion fires associated with coal stockpiles and exposed insitu coal seams);
- dust emissions (e.g. dust and fume); and
- explosions (e.g. blasting activities).

The likelihood of environmental hazards occurring at Liddell has been captured through the **Annual Environment and Community Risk Assessment**. The purpose of this risk assessment is to identify significant environment and community aspects and impacts across the mining operations, 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 aspects, impacts, risks and management controls have been identified, any changes are documented and managed in accordance with [LIDOC-90533967-1084: Change Management Standard](#).

LCO implements [LIDOC-90533967-1083 - Risk Management Standard](#), a site specific risk management plan that has been developed to comply with [GCAA-625378177-10524 – HSEC Management System Framework](#).

The systematic identification, assessment and management of foreseeable catastrophic (core) hazards is undertaken utilising the [GCAA-625378177-13271 Catastrophic Hazards Protocol](#) and the [GCAA-625378177-9980 – 13.0 Assurance](#).

This process includes:

- identifying foreseeable hazards associated with operations at LCO and CHPP;
- assessing 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.

LCO has adopted the [GCAA-625378177-13287 - Glencore Fatal Hazard Protocols](#) for Liddell. The register includes nominated control measures to manage foreseeable catastrophic (core) hazards. The [GCAA-625378177-13287 - Glencore Fatal Hazard Protocols](#) includes hazards that could result in either:

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

## 2.3 Chemicals and Potential Pollutants

All chemicals at Liddell are included in a central register available at key locations around the site. All chemicals are accompanied by the relevant Material Safety Data Sheets as required by work health and safety regulations. The maximum quantity stored of designated chemicals such as fuel and oil located on the premises is detailed in the [Dangerous Goods Manifest \(LIDOC-90533967-1546\)](#) for the site.

Oil and grease containment and disposal is managed by two different systems, one system at the open cut operations and the second system at the CHPP workshop washdown facilities.

Fuel, lubricants and waste oil for the open cut operations are currently stored in a bulk fuel area which contains five tanks with capacities up to 110 kL. The bulk fuel storage area is bunded and linked to an oil water separator located nearby.

The fuel, lubricants and waste oil for the CHPP is stored within two tank farms located adjacent to the CHPP workshop. Both tank farms are contained within a concrete bund.

The facilities that store fuel, oil and hazardous chemicals have been designed in accordance with Australian Standard 1940 – 1993. The **Dangerous Goods Licence** (Acknowledgement Number: NDG033031) covers the storage of these materials. The system has been designed to incorporate:

- impervious walls and floors;
- sufficient capacity to maintain 110% of the volume of the tank (or 110% 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.

Explosives for surface operations are stored in licensed explosive magazines in accordance with Workcover requirements. The **WorkCover Dangerous Goods Licence** (No. 35/033031) covers the possession and storage of these materials.

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
- hydrocarbons; and
- effluent waste.

These materials are in a constant state of flux as a result of mining operations. Risks associated with these potential pollutants are incorporated into the risk register detailed discussed above.

**Appendix A** displays the location of potential pollutants including tailings dams/pipelines, mine water dams, sediment dams, oil and fuel storage locations.

## 3. Management and Responsibilities

### 3.1 Legal Duty to Notify

All Liddell 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 Liddell) 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; and
- 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.

Name	Contact details	Position	Responsibility
Tony Morris	(02) 65 709 919  Mobile: 0407 219 575	Operations Manager	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.
Ben de Somer	(02) 65 709 947  Mobile: 0427 936 734	Environment and Community Manager	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. Authorised to liaise with the relevant authority.



Name	Contact details	Position	Responsibility
Sean Pigott	(02) 65 709 961  Mobile: 0432 573 309	Mine Closure Superintendent	Responsible for coordinating the response to a pollution incident. Facilitate site personnel in implementation of the PIRMP. Communication of the PIRMP to site personnel.
Lyndall Ingram	(02) 65 709 923  Mobile: 0459 923 245	Environment and Community Officer	Responsible for coordinating the response to a pollution incident. Facilitate site personnel in implementation of the PIRMP. Communication of the PIRMP to site personnel.

Table 3-1 – PIRMP Management Responsibilities

## 4. 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.

In the case of an environmental incident, prior to any other action, the site must contact NSW emergency services (**Fire and Rescue NSW**) on **1300 729 579 or 000** if the incident presents an immediate threat to human health or property. Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are the first responders, as they are responsible for controlling and containing incidents.

If the incident does not pose any threat to human health or property, concurrently with contacting emergency services (**1300 729 579**), all possible actions should be taken to control the pollution incident and minimise health, safety and environmental consequences. These actions must be employed to the maximum extent possible to:

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

In compliance with [GCAA-625378177-9992 - 6.0 Incident](#), the actions to be implemented at Liddell on the occasion of an incident include the following:

1. Secure the scene and contain the incident;
2. Gather information (i.e. environmental monitoring);
3. Determine the investigation level;
4. Commence an ICAM (if required);
5. Review and classify information and determine actions;
6. Complete actions; and
7. 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:

- [LIDOC-90533967-1052 - Emergency Management Plan](#);
- [LIDOC-90533967-159 - Hazardous Chemicals](#); and
- [LIDOC-90533967-273 – Radiation Management](#).

Each management plan documents the roles and accountabilities of key personnel at the 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.

Incident management at Liddell 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 Coal New South Wales Incident 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 GCAA personnel.

Emergency Management at Liddell is undertaken in accordance with [LIDOC-90533967-1052 - Emergency Management Plan](#). With regards to the specific major hazards identified in **Section 2.2**, **Table 4-1** below provides reference to the relevant Emergency Response Flowchart appended to the Emergency Management Plan.

Hazard	Liddell Hazards and Emergency Response Documentation.
spills (e.g. hydrocarbon, hazardous chemicals, etc.) resulting in land and or water contamination.	Appendix J - Chemical / Hydrocarbon Spillage Flowchart Appendix K - Tailings Line Failure Appendix V – Pollution Incident Response Flowchart
major water discharge (for example dam failure).	Appendix T - Dam Failure Flowchart Appendix V – Pollution Incident Response Flowchart
fire (for example spontaneous combustion fires associated with coal stockpiles or exposed insitu coal seams).	Appendix Q - Spontaneous Combustion Emergency on Stockpiles Flowchart

Hazard	Liddell Hazards and Emergency Response Documentation.
explosions (only associated with open cut mining activities).	Appendix G - Tyre Fire or Explosion Flowchart Appendix H - Fire Flowchart

*Table 4-1 – Liddell Hazards and Emergency Response Documentation*

All Liddell employees and contractors receive emergency preparedness and response training during their site familiarisation induction. LCO 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.

LCO 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.

## 5. Notification Procedures

Following containment of the incident, immediate action must be taken to determine if the incident can 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 (or such other amount as is prescribed by the regulations).

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

The Operations Manager in consultation with the Environment and Community Manager will make the determination of a material harm incident. If the Operations Manager is not available immediately, the Environment and Community Manager will make the determination.

Also note that Condition R4.1 of EPL 2094 requires immediate notification of any actual or potential contravention of Condition L1 (s120 pollution of waters). This is irrespective of whether material harm to the environment has occurred. Notification is to be made to the EPA by phoning the Environment Line listed in Table 5-1 below.

## 5.1 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 event of an PIRMP notifiable incident, response and notification must be undertaken to the agencies listed in **Table 5-1**, which contains the following important information:

- the local government authority for the area in which the EPL is issued;
- the persons and authorities to be notified by Part 5.7 of the POEO Act; and
- the contact details of each relevant authority referred to in section 148 of the POEO Act, refer to **Table 5-1**.

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

Agency	Contact Details
Fire and Rescue	1300 729 579 (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.)
EPA	131 555
Ministry of Health	(02) 4924 6477 (ask for Public Health Officer on call)
Work Cover	131 050
Singleton Council	(02) 6578 7290 (24 hours)
Muswellbrook Shire Council (MSC)	(02) 6549 3700 (24 hours).

*Table 5-1 – PIRMP Notification Contacts*

In the instance of identification of an environmental incident or hazard, the personnel will report the issue immediately to their manager, who in turn shall report it to the Environment and Community Manager, or any member of the environmental team. Immediately is taken to mean ‘promptly and without delay’. **As per guidance provided by the EPA, the decision on whether to notify the incident in accordance with Part 5.7 of the POEO Act should not delay immediate actions to provide the safety of people or contain a pollution incident. However, incident notification will be made as soon as it is safe to do so<sup>1</sup>.**

In the event of an externally reportable incident (as defined in this document), additional regulatory agencies may need to be notified under other approvals; for instance notification to Resources Regulator as per ML1552 or Department of Planning and Environment as per DA305-11-01. In addition to being detailed in this document, procedures for undertaking internal and external notification are outlined in [LIDOC-90533967-656 - Hazard & Incident Management](#), [LIDOC-90533967-797 LCO Environmental Management Strategy](#) as well as management plans associated with DA305-11-01. Record keeping of incident details, including investigations and outcomes, will be undertaken in accordance with [GCAA-625378177-9992– 6.0 Incident](#).

<sup>1</sup> EPA, *Frequently Asked Questions Regarding the Duty to Notify of a Pollution Incident* (Accessed August 2016) <<http://www.epa.nsw.gov.au/legislation/poefaqsnofity.htm>>

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.

## 5.2 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 are included in [LIDOC-90533967-1074 - Liddell Coal Operations 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, Community Consultative Committee meetings, Liddell website, media statements or any other strategy as defined in the [LIDOC-90533967-166 – Stakeholder Engagement Strategy](#).

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.

## 6. Training, Testing and Communication

### 6.1 Training

All personnel affected by the content of this document will receive instruction or explanation on the relevant parts of this document as per [LIDOC-90533967-4419 - Training and Competency Management](#). Incident management and emergency response shall be included in all Glencore Generic and Liddell site familiarisation inductions.

A training exercise designed to test the adequacy of emergency preparedness and response will be 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 Liddell Incident Management Team and external response agencies (Ambulance, Fire, Mines Rescue etc).

All training records, including the name of the person undertaking training and date of training, shall be maintained in compliance with [LIDOC-90533967-1028 - Document Control Standard](#).

## 6.2 Testing, Review and Maintenance

The 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 every 12 months commencing from the date of authorisation of the Liddell Operations Manager. 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 triggers the PIRMP 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.

Records will be kept in accordance with [LIDOC-90533967-1028 - Document Control Standard](#) and will be included in **Section 7.0** of this plan. Information regarding 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.

## 7. PIRMP Review Register

Date of Test	Name of Personnel Undertaking Test	Manner of Testing	Summary of Changes (include brief detail and section number)	Date of Update
18/06/2013	H Murdoch B de Somer C Standing M Bower	Annual Desktop Test Scenario/Review	Muswellbrook Shire Council (MSC) details added to Table 5.1  Further details of test in PIRMP Test Record, attached to action 19153 in CMO. Document also saved <a href="#">..\..\..\..\18 EMS\2012 PIRMP\PIRMP Annual Tests\2013</a>	20/06/2013
12/6/2014	J Young L Barben	Simulated PIRMP test  PIRMP document review	Conducted a PIRMP test practical simulation. See 2014 PIRMP test report for further details	16/6/2014

Date of Test	Name of Personnel Undertaking Test	Manner of Testing	Summary of Changes (include brief detail and section number)	Date of Update
29/4/2015	J Young L Barben A Dalton P Daniel E Gylser J Paix	Desktop review of PIRMP	Update references new Glencore standards Update pollution location maps	25/5/2015
30/6/2015	J Young L Barben	Practical simulation at CHPP (tailings line failure)	See LCO SD FRM 0264 PIRMP test record form. No requirements to update actual PIRMP document.	30/6/2015
17/9/2015	L Barben J Young	Desktop review of PIRMP following incident on 24/8/2015	Update to MSC contact details	17/9/2015
24/8/2016	L Barben J Young M Cook M Nasrollahzadeh P Ramage	Blast fume simulation response and desktop review of PIRMP	Update document references throughout and figures in Appendix A Include a new plan in Appendix A showing pipeline locations	24/8/2016
24/7/2017	M Henderson B de Somer J Young T Hunt C Lawson P Chapman I O'Brien	Differential flow and mine water offsite simulation and desktop review of the PIRMP	Update document references throughout. Updated contact personnel in PIRMP Management Responsibilities	28/7/2017
2/8/2018	S Fredericks F Quach P Greig	Mine water/tailings offsite discharge simulation response and desktop review of PIRMP	Update document references throughout.	13/08/2018

Date of Test	Name of Personnel Undertaking Test	Manner of Testing	Summary of Changes (include brief detail and section number)	Date of Update
28/11/2018	M Henderson B de Somer	PIRMP triggered	Updated references in document. Appendix A maps to include Bayswater diversion drain and pipeline maintenance ponds.	18/12/2018
28/8/2019	J Young D Mitchell	Sediment dam overtop desktop review of PIRMP	Refer to PIRMP Test record form. Update document references throughout.  Updated field kits	10/09/2019
18/8/2020	L Depczynski B de Somer G Green N Gibbs	Tailings line failure simulation and desktop review of PIRMP	Refer to PIRMP Test record. Updated contact details in Section 3.2 and additional pollution of waters consideration in Section 5; addition of West Pit Tailings Line (GRAWTS) general arrangement of pollution control structures	20/08/2020
18/8/2021	B de Somer S Roach M Johnson	Desktop review of PIRMP with respect to two scenarios: MIA fuel farm diesel spill and MIA fuel farm fire.	Refer to PIMP Test Record. Updated Section 2.3 with Dangerous Goods Manifest reference/links for identification of sources and amounts; Section 3.2 update EC Officer contacts and Section 5.1 Singleton Council contacts	19/8/2021
30/08/2022	B de Somer S Pigott L Ingram	Desktop review of PIRMP with respect to two scenarios: Diesel spill to Bowmans Ck following fuel truck rollover  Pipeline leak to Bayswater Ck.	Refer to PIRMP Test Record. Section 3.2 update EC Supt and Officer contacts.	30/08/2022



Date of Test	Name of Personnel Undertaking Test	Manner of Testing	Summary of Changes (include brief detail and section number)	Date of Update
25/08/2023	S Pigott L Ingram	Desktop review of PIRMP with respect to one scenarios: Chemical spill to Bowmans Ck following light vehicle rollover.	Refer to PIRMP Test Record.	25/08/2023

Table 7-1 – PIRMP test and review register

## 8. Document Information

### 8.1 Related Documents

Related documents, listed in **Table 8-1** below, are *documents* directly related to or referenced from within this document.

Number	Title
<a href="#">LIDOC-90533967-1028</a>	Document Control Standard
<a href="#">LIDOC-90533967-4419</a>	Training and Competency Management
<a href="#">LIDOC-90533967-656</a>	Hazard & Incident Management
<a href="#">LIDOC-90533967-1074</a>	Liddell Coal Operations – Stakeholder Database
<a href="#">LIDOC-90533967-1052</a>	Emergency Management Plan
<a href="#">LIDOC-90533967-159</a>	Hazardous Substances and Dangerous Goods
<a href="#">LIDOC-90533967-1546</a>	Liddell Coal Operations – Dangerous Goods Manifest
<a href="#">LIDOC-90533967-273</a>	Radiation Emergency Procedure
<a href="#">LIDOC-90533967-1083</a>	Risk Management Standard
<a href="#">LIDOC-90533967-166</a>	Stakeholder Engagement Strategy
<a href="#">LIDOC-90533967-1084</a>	Change Management Standard
<a href="#">LIDOC-90533967-797</a>	Environmental Management Strategy

Table 8-1 – Related documents

## 8.2 Reference Information

Reference information, listed in **Table 8-2** below, is *information* that is directly referred to for the development of this document.

Reference	Title
Legislation	Work Health and Safety (Mines and Petroleum Sites) Act 2013
	Work Health and Safety (Mines and Petroleum Sites) Regulation 2022
	Work Health and Safety Act 2011
	Work Health and Safety Regulation 2017
	Protection of the Environment Operations Act 1997
	Protection of the Environment Legislation Amendment Act 2011 (PELA)
Glencore Coal Assets Australia	<a href="#">6.0 Incident</a> (GCAA-625378177-9992)
	<a href="#">GCAA-625378177-13287 - Glencore Fatal Hazard Protocols</a>
	<a href="#">13.0 Assurance</a> (GCAA-625378177-9980)
	<a href="#">Risk Management</a> (GCAA-625378177-2844)

Table 8-2 – Reference information

## 8.3 Change Information

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 8-3** below. Example detail shown below.

Version	Date	Review Team	Change Details
1.0	August 2012	Umwelt, B de Somer, D Foster	Initial development of document
2.0	4/03/2013	H Murdoch	Section 5.2 Internal & External Notification, Table 5.1 Updated Fire and Rescue NSW contact number
	5/3/2013	B de Somer, H Simms	Added links to LCO and XCN documents. Section 4 Incident Management- Removed reference to LCO SD FWK 0004 (superseded by LCO SD PLN 0008), updated document ID for Hazardous Substances and Dangerous Goods
3.0	3/4/2013	H Murdoch, B de Somer	Updated Fire and Rescue NSW contact number in section 4 of document.  Added PIRMP process flowchart as Appendix 2.

Version	Date	Review Team	Change Details
4.0	29/4/2013	B de Somer, H Simms	Updated Table 3.1 PIRMP Management Responsibilities to include Christopher Standing and mobile numbers added in contact details. Removed "Responsible for undertaking notification as defined in this PIRMP" from E&C Officer positions.
5.0	20/6/2013	H Murdoch, B de Somer	MSC contact details added to Table 5.1 Appendix 2 Flowchart updated to show MSC contact details. Section 7 updated to reflect completion of annual PIRMP test.
6.0	12/6/2014	J Young, L Barben	Updated contact details in Table 3.1. Updated figures in Appendix 1 to reflect changed explosives magazine location.
7.0	25/05/2015	J Young, L Barben	MSC contact details updated in Table 5.1. Updated document references throughout document. Updated Appendix A Figures. Updated references in Table 4.1 to align with revised EMP. Revised Section 9 References. Updated to Glencore document template.
8.0	17/09/2015	L Barben, J Young	Review following reportable incident on 24/8/15 Update to MSC contact PIRMP test record form completed
9.0	24/08/2016	L Barben, J Young	Review PIRMP in response to mock blast fume event on 24/8/16 Update references throughout document Update Figures in Appendix A and include new map showing pipelines PIRMP test record form completed
10.0	October 2016		Document migration to new SharePoint.

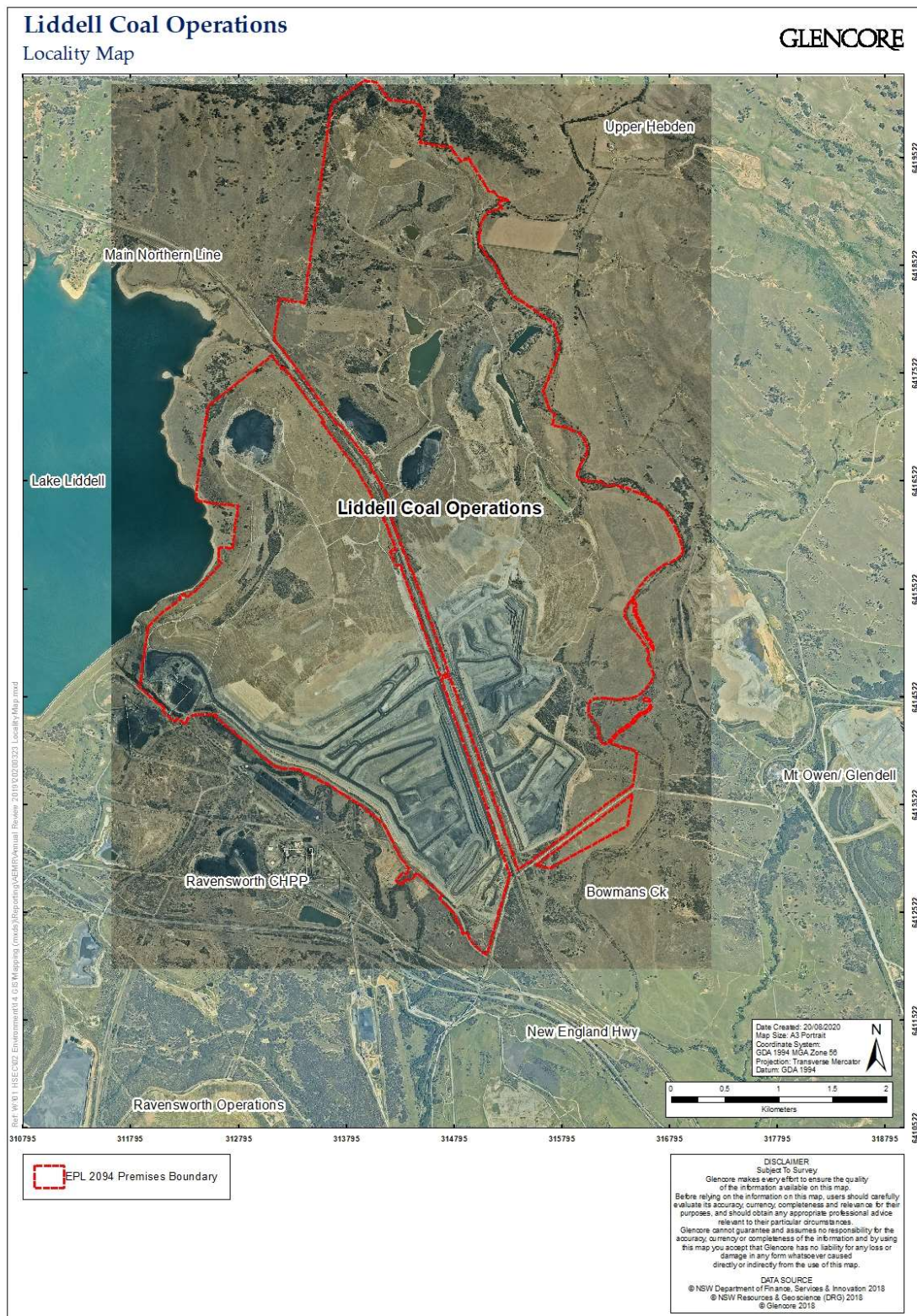
Version	Date	Review Team	Change Details
11.0	28/07/2017	M Henderson, B de Somer	Review PIRMP in response to mock mine water offsite event on 24/7/2017  Updated references throughout the document  PIRMP test record form completed  Updated contact personnel responsible for PIRMP Management
12.0	09/08/2018	S Fredericks, J Young	Review PIRMP in response to mock mine water/tailings offsite discharge event on 2/08/2018  Updated references throughout document  Updated Appendix B and figures in Appendix A  PIRMP test record form completed
13.0	18/12/2018	M Henderson, B de Somer	Reviewed the document in response to an event triggering the PIRMP. Updated references within document. Updated map in Appendix A to include Bayswater Pit diversion drain and pipeline maintenance ponds.
14.0	04/07/2019	J Young, B de Somer	Updated Section 5.2 as per 2019 Independent Environmental Audit Recommendations to reference additional reporting requirements.  Update Appendix A with Potential Pollution Sources Maps for Pipelines and Bayswater Pit.
15.0	10/09/2019	J Young, D Mitchell, B de Somer	Updated to reflect PIRMP Test.
16.0	18/08/2020	B de Somer, L Depczynski	Full review. Section 3.2 Updated Ops Manager and EC Officer contacts; added pollution of waters notification considerations in Section 5; updated figures in Appendix A in line with current operations, particularly addition of West Pit Tailings Line (GRAWTS) general arrangement of pollution control structures.  Transferred to current template.
17.0	19/08/2021	B de Somer, L Depczynski	Annual PIRMP Test Review. Update table 1-1 Section references; Update Section 2.3 to reference Dangerous Goods Manifest; Update Section 3.2 with new EC Officer contact details; Update section 5.1 with 24hr contact details for Singleton Council;
18.0	30/08/2022	B de Somer, S Pigott, L Ingram	Full review. Section 3.2 update EC Supt and Officer contacts.

Version	Date	Review Team	Change Details
19.0	05/05/2023	S Pigott	Partial. Updated Operations Manager contact details.
20.0	25/08/2023	S Pigott, L Ingram	Full review.App A Figure Potential Pollution Sources – Tailings, Dams and Explosive Stores updated.  PIRMP test record form completed.  H Simms – Section 8.2 updated to current WHS legislation.

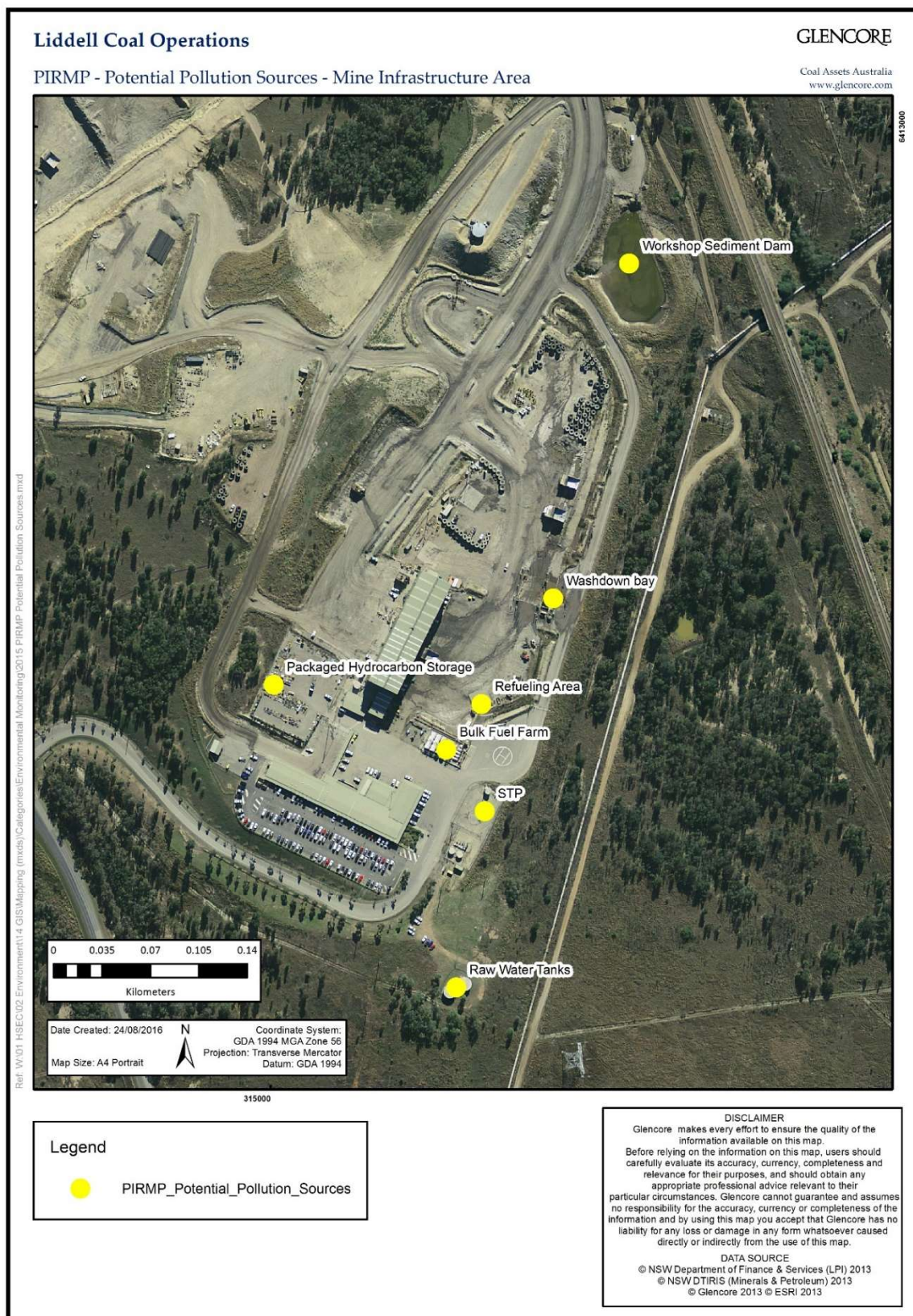
Table 8-3 – Change information



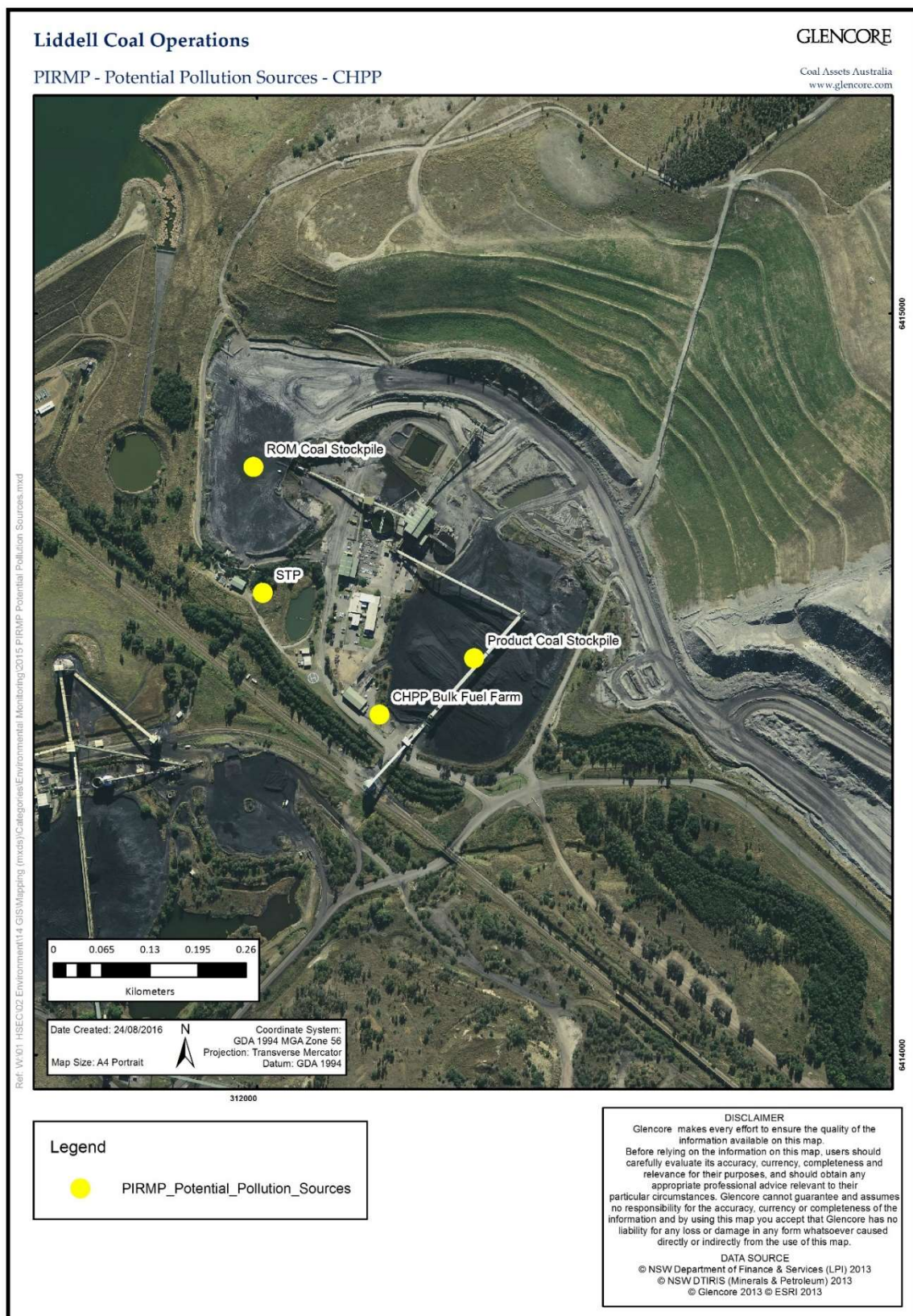
## Appendix A - Figures



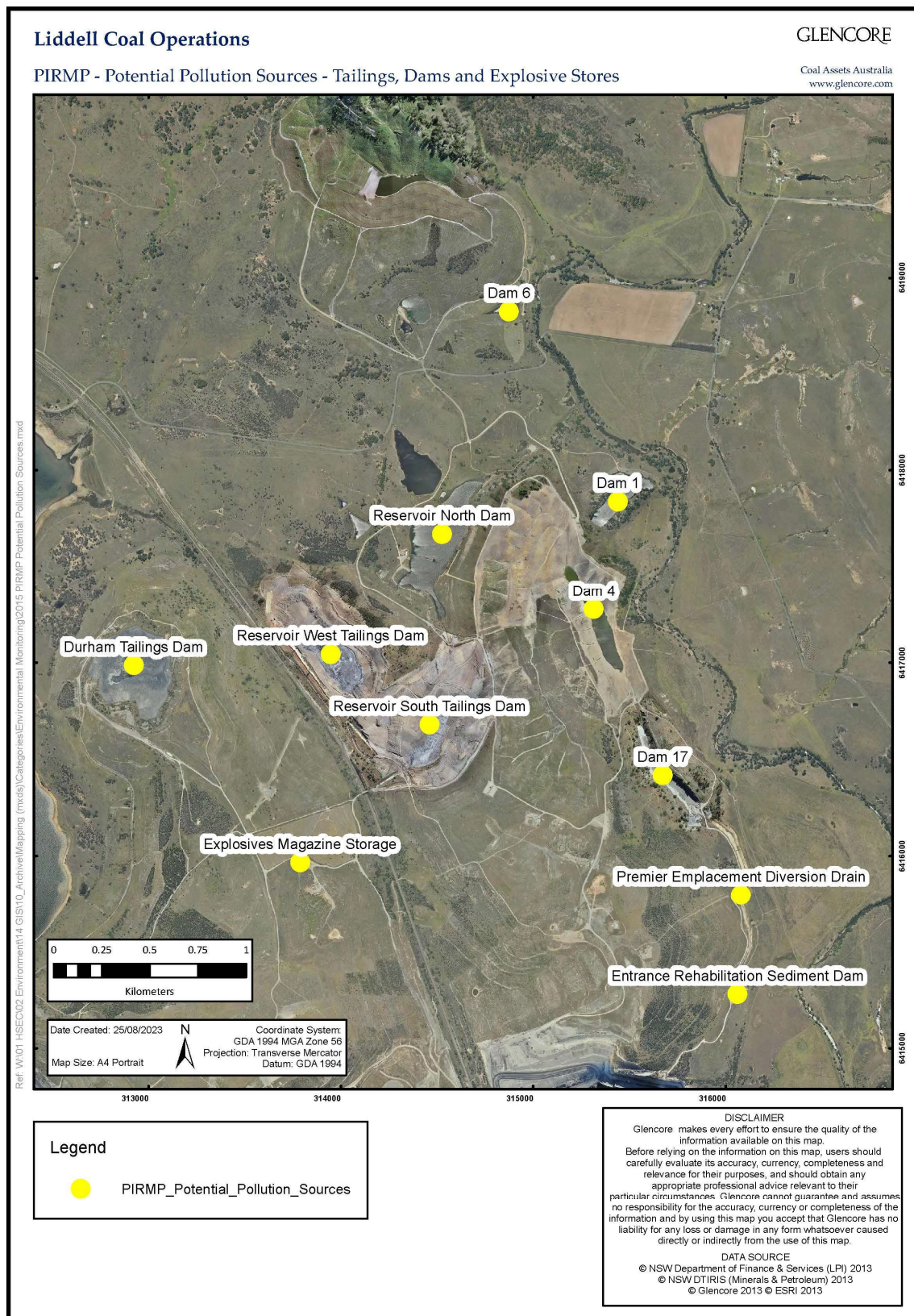




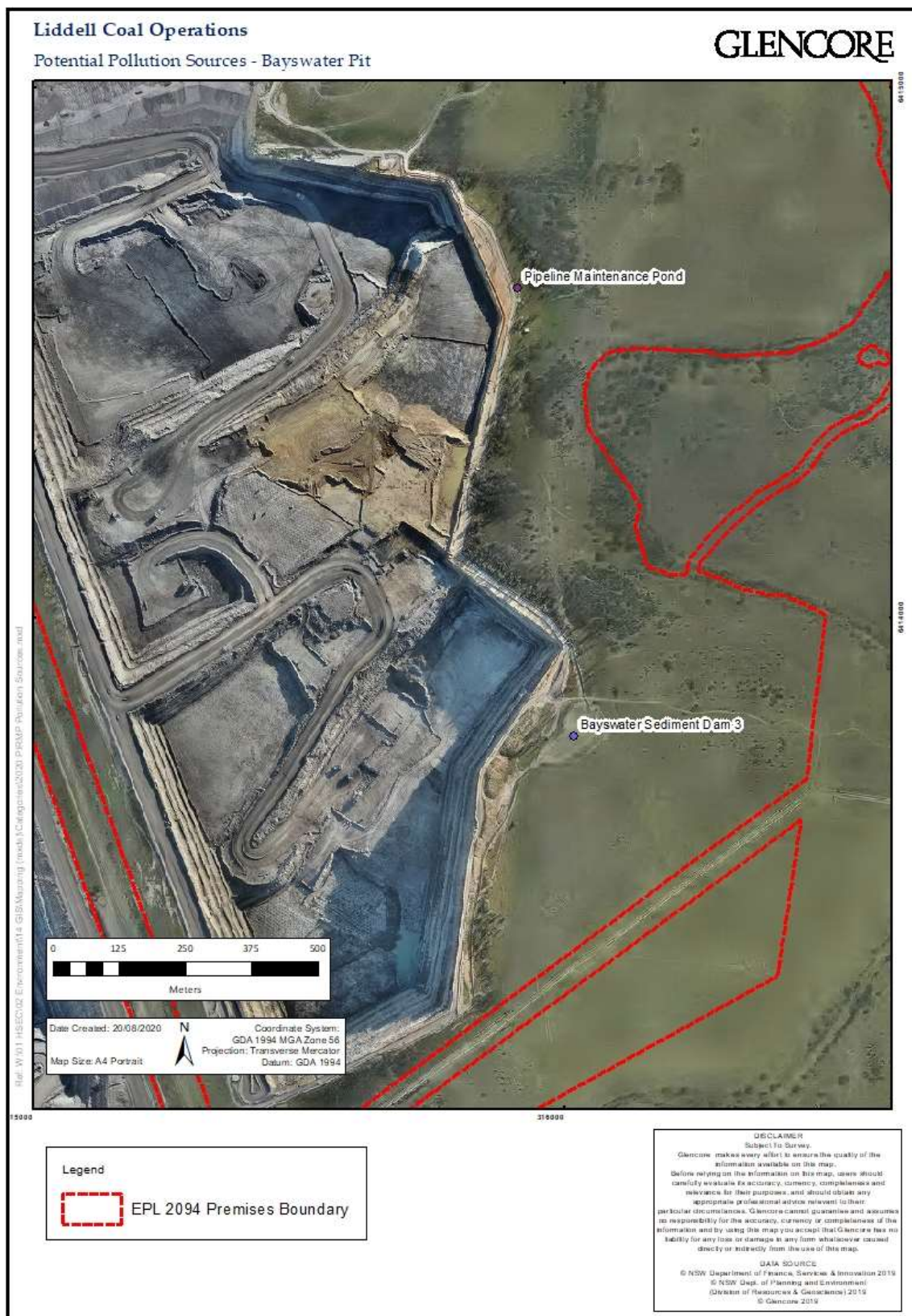




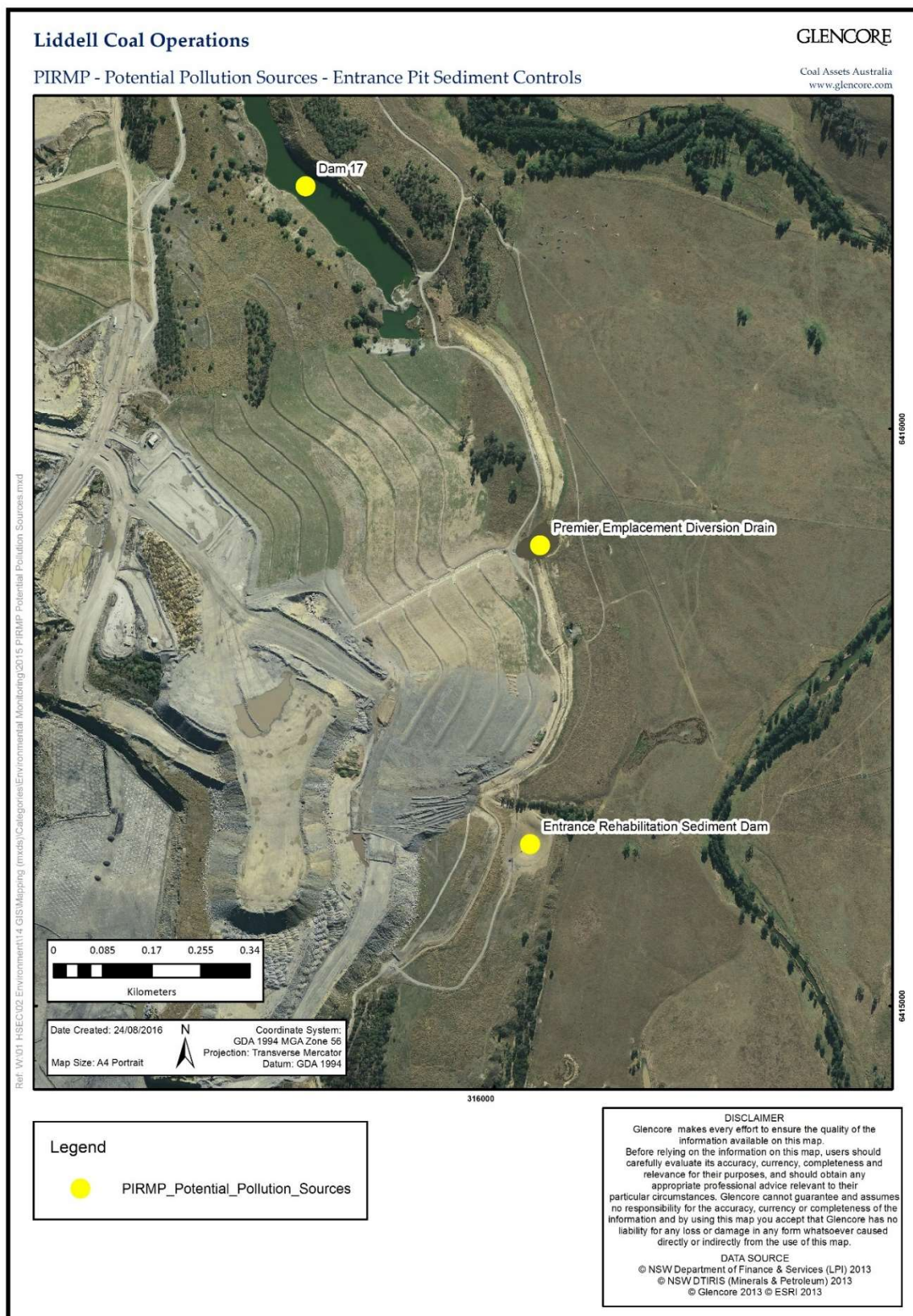




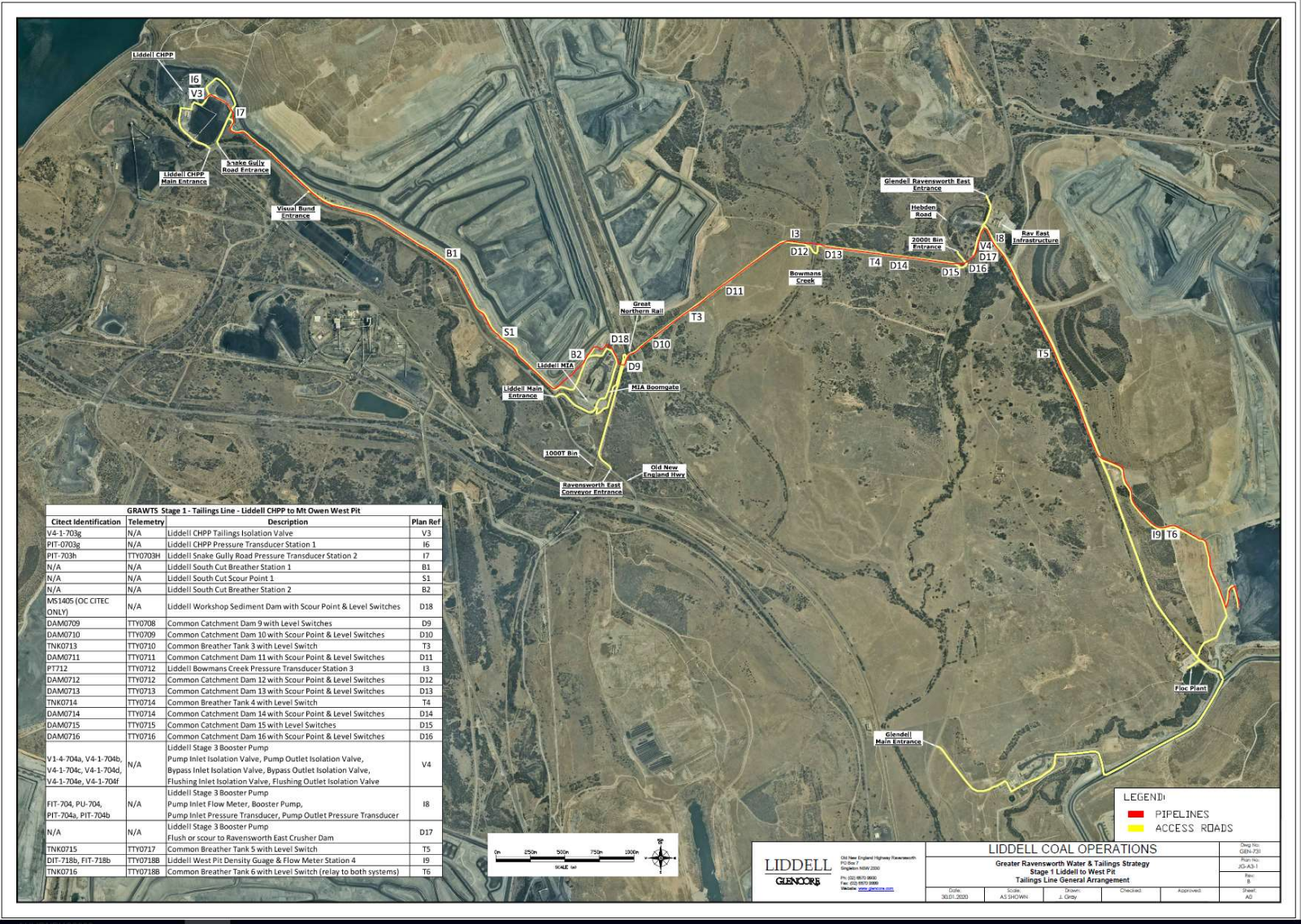












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