



Licence

Environmental Protection Act 1986, Part V

Proponent: Premier Coal Limited

Licence: L5094/1987/16

Registered office: 68 York Street
SYDNEY NSW 2000

ACN: 008 672 599

Premises address: Premier coal mining operations
AM 70/262, Premier Road,
COLLIE WA
Being part of AM 70/262

Issue date: Thursday, 8 October 2015

Commencement date: Wednesday, 14 October 2015

Expiry date: Friday, 13 October 2028

Prescribed premises category

Schedule 1 of the *Environmental Protection Regulations 1987*

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
9	Coal mining: premises on which – (a) Water is extracted and discharged into the environment to allow coal mining; or (b) Coal mining or processing occurs and tailings are discharged.	5,000 tonnes or more per year	5 million tonnes per annual period
64	Class II or III putrescible landfill site: premises on which waste (as determined by reference to the waste type set out in the document titled “Landfill Waste Classification and Waste Definitions 1996” published by the Chief Executive Officer and as amended from time to time) is accepted for burial.	20 tonnes or more per year	1,000 tonnes per annual period

Conditions

This Licence is subject to the conditions set out in the attached pages.

Date signed: 02 October 2017

.....
Tim Gentle

Officer delegated under section 20
of the *Environmental Protection Act 1986*



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Introduction

This Introduction is not part of the Licence conditions.

DWER's industry licensing role

The Department of Water and Environmental Regulation (DWER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DWER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DWER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DWER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DWER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

Licence requirements

This Licence is issued under Part V of the Act. Conditions contained within the Licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licensee the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link:

<http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- *Environmental Protection (Unauthorised Discharges) Regulations 2004* – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.
- *Environmental Protection (Controlled Waste) Regulations 2004* - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- *Environmental Protection (Noise) Regulations 1997* – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

You must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.



Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

Licence fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non-payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

Ministerial conditions

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and Licence summary

Premier Coal Limited (PCL) is managed by the Yancoal Australia Group and operates a number of open cut pits as part of the 'Premier coal mining operations'. The site is located approximately 200 km south of Perth and 10 km SE of the town of Collie. The area surrounding the site supports a variety of land uses including coal mining, agriculture, forestry, apiculture, power production, tourism, quarrying and recreation.

The mine consists of a number of operational and planned pits over a footprint of approximately 1600 hectares. Coal is mined using a "truck and shovel" operation. Vegetation, topsoil and overburden is removed, then the coal is mined then hauled to the coal handling plant where it is crushed and sized before being blended and stockpiled. Coal product is then delivered to either of the two nearby coal-fired power stations, Muja or Collie "A", via overland conveyor systems.

Pit dewatering is undertaken to ensure a relatively dry mining environment. The majority of the dewater is treated at an on-site water treatment plant before being discharged into the Collie River East branch with some being used for operational tasks and dust suppression and supplying the nearby power station with water.

The main potential emissions from the PCL operations are dust, noise, contaminated stormwater and dewater. The Premier coal mining operations are managed under a number of Ministerial Approval Statements that include the management of noise, dust and groundwater extraction. Premier maintains and implements a number of management strategies designed to minimise environmental impacts from their operations.

This Licence is the result of an amendment sought by the Licensee to relocate the class II landfill.

The licences and works approvals issued for the Premises since 14/10/2000 are:

Instrument log		
Instrument	Issued	Description
L5094/1987/4	14/10/2000	Licence re-issue
L5094/1987/5	14/10/2001	Licence re-issue
L5094/1987/6	14/10/2002	Licence re-issue
L5094/1987/7	14/10/2003	Licence re-issue
L5094/1987/8	14/10/2004	Licence re-issue
W4030/1987/1	12/01/2005	Application for char manufacturing
L5094/1987/9	14/10/2006	Licence re-issue
L5094/1987/10	14/10/2007	Licence re-issue
L5094/1987/11	14/10/2008	Licence re-issue
L5094/1987/12	14/10/2009	Licence re-issue
L5094/1987/13	14/10/2010	Licence re-issue
L5094/1987/14	14/10/2011	Licence re-issue



L5094/1987/15	14/10/2012	Licence re-issue
L5094/1987/16	8/10/2015	Licence re-issue
L5094/1987/16	7/7/2016	Licence amendment, conversion to new format and expiry date extended.
L5094/1987/16	02/10/2017	Licence amendment to relocate landfill.

Severance

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

END OF INTRODUCTION

Licence conditions

1 General

1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

'Act' means the *Environmental Protection Act 1986*;

'Anniversary Date' means 1 July in each year;

'annual period' means a 12 month period commencing from 1 July until 30 June in the following year;

'AS 3580.1.1' means the Australian Standard AS 3580.1.1 *Methods for sampling and analysis of ambient air – Guide to siting air monitoring equipment*;

'AS 3580.9.6' means the Australian Standard AS 3580.9.6 *Methods for sampling and analysis of ambient air - Determination of suspended particulate matter - PM₁₀ high volume sampler with size - selective inlet – Gravimetric method*;

'AS 3580.9.8' means the Australian Standard AS 3580.9.8 *Methods for sampling and analysis of ambient air - Determination of suspended particulate matter - PM₁₀ continuous direct mass method using tapered element oscillating microbalance analyser*;

'AS/NZS 5667.1' means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

'AS/NZS 5667.6' means the Australian Standard AS/NZS 5667.6 *Water Quality – Sampling – Guidance on sampling of rivers and streams*;

'averaging period' means the time over which a limit is measured or a monitoring result is obtained;

'CEO' means Chief Executive Officer of the Department of Water and Environmental Regulation;

'CEO' for the purpose of correspondence means;



Director General
Department Administering the *Environmental Protection Act 1986*
Locked Bag 33 Cloisters Square
PERTH WA 6850
info-der@dwer.wa.gov.au

‘Compliance Report’ means a report in a format approved by the CEO as presented by the Licensee or as specified by the CEO from time to time and published on the Department’s website;

‘Department’ means the department established under s.35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Division 3 Part V of the *Environmental Protection Act 1986*;

‘Licence’ means this Licence numbered L5094/1987/16 and issued under the Act;

‘Licensee’ means the person or organisation named as Licensee on page 1 of the Licence;

‘NATA’ means the National Association of Testing Authorities, Australia;

‘NATA accredited’ means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;

‘PM’ means total particulate matter including both solid fragments of material and miniscule droplets of liquid;

‘PM₁₀’ means particles with an aerodynamic diameter of less or equal to 10 µm;

‘Premises’ means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

‘Schedule 1’ means Schedule 1 of this Licence unless otherwise stated;

‘Schedule 2’ means Schedule 2 of this Licence unless otherwise stated;

‘spot sample’ means a discrete sample representative at the time and place at which the sample is taken; and

‘µS/cm’ means microsiemens per centimetre.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.

1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.

1.2 Premises operation

1.2.1 The licensee shall manage operation to ensure that throughput at the premises does not exceed the limits in Table 1.2.1.

Table 1.2.1: Throughput Limits	
Process	Production limit (per annual period)
Coal Mining	5 000 000 wet tonnes (ore)

1.2.2 The Licensee shall only accept waste generated at the Premises if:



- (a) it is of a type listed in Table 1.2.2;
- (b) the quantity accepted is below any quantity limit listed in Table 1.2.2; and
- (c) it meets any specification listed in Table 1.2.2

Table 1.2.2: Waste acceptance			
Waste	Quantity Limit	Disposal Reference Point	Specification
<ul style="list-style-type: none"> • Clean Fill • Putrescible Wastes • Inert Waste Type 1 • Used tyres • Inert Waste Type 2 	Combined total of up to 1,000 tonnes per annual period.	E1 (Landfill)	Minimum separation distance of 2 meters to maximum groundwater level.

2 Emissions

2.1 General

2.1.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit specified in any part of section 2 of this Licence.

2.2 Point source emissions to surface water

2.2.1 The Licensee shall ensure that where emission to surface water from the emission points in Table 2.2.1 and identified on the premises map in Schedule 1, it is done so in accordance with the conditions of this licence.

Table 2.2.1: Emission points to surface water		
Emission point reference on Map of emission points	Description	Source including abatement
WO5H	Mine discharge (WO5H)	Stormwater; passing through a sedimentation basin with capacity for a 1:100 year 72 hour rainfall event prior to discharge

2.2.2 The Licensee shall not cause or allow point source emissions to surface water greater than the limits listed in Table 2.2.2.

Table 2.2.2: Point source emission limits to surface water			
Emission point reference	Parameter	Limit (including units)	Averaging period
WO5H	Total dissolved solids	550 mg/L	Spot sample
	Total suspended solids	80 mg/L	
	Total recoverable hydrocarbons	10 mg/L	
	Dissolved oxygen	Greater than 5 mg/L	
	Iron	3 mg/L	
	Manganese	0.5 mg/L	

2.2.3 The licensee is exempt from compliance with condition 2.2.2 if in the case of an event in Table 2.2.3, the corresponding management action is taken.

2.2.4 The licensee shall take the specified management action in the case of an event in Table 2.2.3.



Table 2.2.3: Management Actions			
Emission point reference	Event/action reference	Event	Management action
WO5H	EA1	1:100 year 72 hour ARI rainfall event recorded at Bureau of Meteorology Collie East Weather Station (ID 009994).	The Licensee shall take all practical measures to divert uncontaminated stormwater from entering contaminated areas.
	EA2		The Licensee shall notify the CEO within 24 hours of becoming aware of the event.
	EA3		The Licensee shall undertake the monitoring required by Table 3.2.1 on a daily basis until point source emissions comply with the limits listed in Table 2.2.2.

3 Monitoring

3.1 General monitoring

- 3.1.1 The licensee shall ensure that:
- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
 - (b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
 - (c) all surface water sampling is conducted in accordance with AS/NZS 5667.4, AS/NZS 5667.6 or AS/NZS 5667.9 as relevant; and
 - (d) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured.

- 3.1.2 The Licensee shall ensure that:
- (a) monthly monitoring is undertaken at least 15 days apart; and
 - (b) annual monitoring is undertaken at least 9 months apart.

3.1.3 The Licensee shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications, and any relevant Australian standard.

3.1.4 The Licensee shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.

3.2 Monitoring of point source emissions to surface water

3.2.1 The Licensee shall undertake the monitoring in Table 3.2.1 according to the specifications in that table.

Table 3.2.1: Monitoring of point source emissions to surface water			
Emission point reference	Parameter	Units	Frequency
WO5H	Volumetric flow rate	m ³ /day	Monthly, when discharging
	pH	N/A	
	Total dissolved solids	mg/L	
	Total suspended solids		
	Total recoverable hydrocarbons		
	Dissolved oxygen		
	Iron		
Manganese			



3.3 Process monitoring

3.3.1 The Licensee shall undertake the monitoring in Table 3.3.1 according to the specifications in that table.

Table 3.3.1: Monitoring of Stormwater Catchment Sumps			
Emission point reference	Parameter	Units	Frequency
PML 8 PML 15	pH	N/A	Monthly
	Total dissolved solids	mg/L	
	Total suspended solids		
	Total recoverable hydrocarbons		
	Dissolved oxygen		
	Iron		
Manganese			

4 Information

4.1 Records

4.1.1 All information and records required by the Licence shall:

- be legible;
- if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
- except for records listed in 4.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
- for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - off-site environmental effects; or
 - matters which affect the condition of the land or waters.

4.1.2 The Licensee must submit to the CEO within 90 days after the Anniversary Date, a Compliance Report indicating the extent to which the Licensee has complied with the Conditions in their Licence for the Annual Period.

4.1.3 The Licensee shall implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

4.2 Reporting

4.2.1 The Licensee shall submit to the CEO an Annual Environmental Report within 61 calendar days after the end of the annual period. The report shall contain the information listed in Table 4.2.1 in the format or form specified in that table.

Table 4.2.1: Annual Environmental Report		
Condition or table (if relevant)	Parameter	Format or form ¹
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken	None specified
Table 1.3.1	Total tonnes of coal mined and total tonnes of waste disposed of at landfill (E1) during annual period	None specified
Table 3.2.1	Volumetric flow rate, pH, Total dissolved solids	WR1



	Total suspended solids, Total recoverable hydrocarbons Dissolved oxygen, Iron and Manganese	
Table 3.3.1	pH, Total dissolved solids Total suspended solids, Total recoverable hydrocarbons Dissolved oxygen, Iron and Manganese	WR1
4.1.2	Compliance	Compliance Report
4.1.3	Complaints summary	None specified

Note 1: Forms are in Schedule 2

4.3 Notification

4.3.1 The Licensee shall ensure that the parameters listed in Table 4.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 4.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement¹	Format or form²
2.2.1	Limit exceedance where management action taken	As soon as practicable but no later than 5pm of the next usual working day.	-
Table 2.2.2	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next usual working day.	N1
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution	Part B: As soon as practicable	

Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act

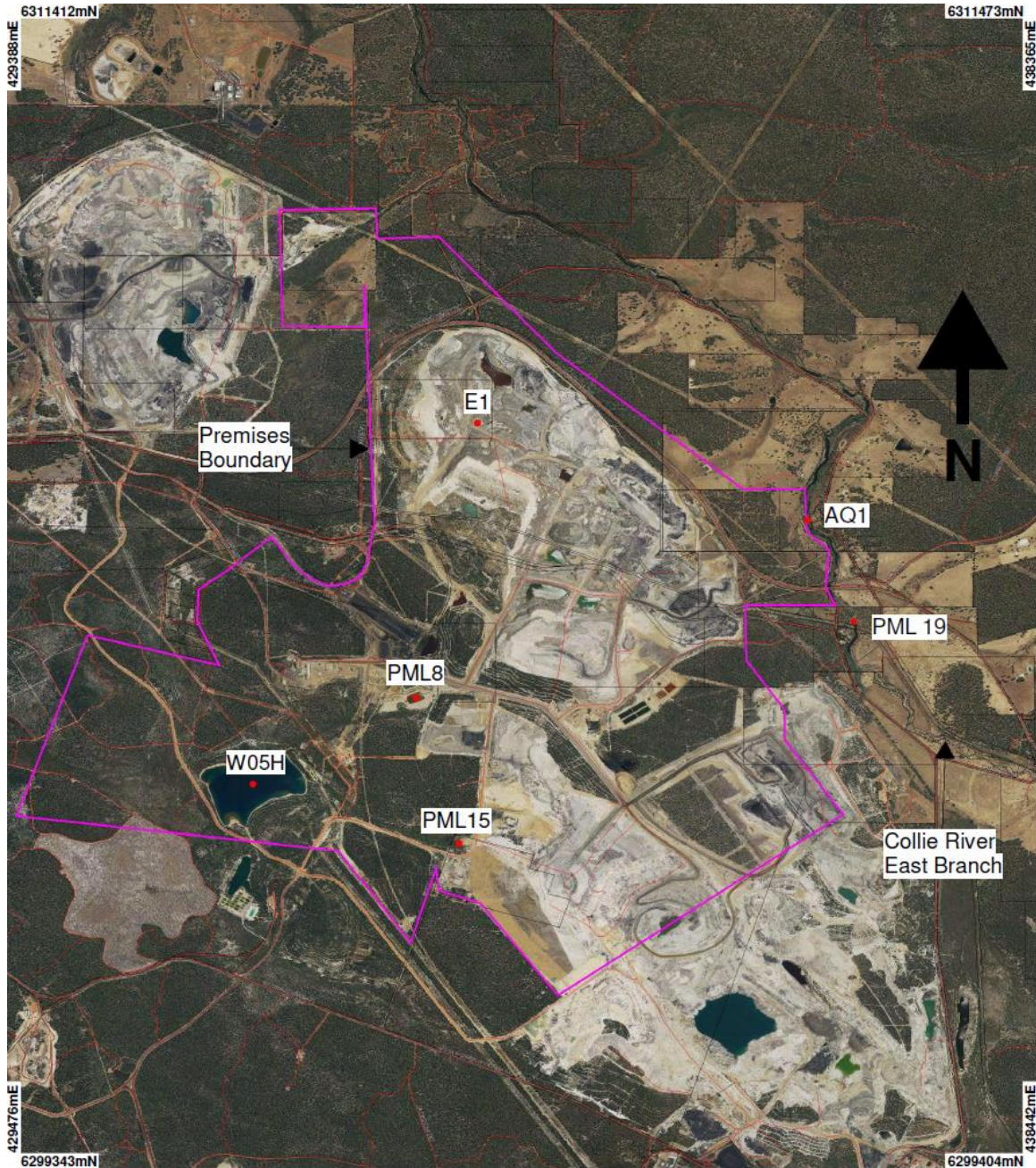
Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The pink line depicts the Premises boundary.





Schedule 2: Reporting & notification forms

These forms are provided for the proponent to report monitoring and other data required by the Licence. They can be requested in an electronic format.

Licence: L5094/1987/16
Form: WR1
Name: Monitoring of surface water

Licensee: Premier Coal Limited
Period :

Form WR1: Monitoring of point source emissions to surface water					
Emission point ²	Parameter	Result ¹	Averaging period	Method	Sample date & times
PML8 PML15	Total dissolved solids	mg/L	Spot sample		
	Total suspended solids	mg/L			
	Total recoverable hydrocarbons	mg/L			
	Dissolved oxygen	mg/L			
	Iron	mg/L			
	Manganese	mg/L			

Note 1: All units are referenced to STP dry

Note 2: Use a new sheet for each discharge point

Signed on behalf of Premier Coal Limited: Date:



Licence: L5094/1987/16
Form: N1

Licensee: Premier Coal Limited
Date of breach:

Notification of detection of the breach of a limit.

These pages outline the information that the operator must provide.
Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

Licence Number	
Name of operator	
Location of Premises	
Time and date of the detection	

Notification requirements for the breach of a limit	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	



Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of Premier Coal Limited	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Premier Coal Limited

Licence: L5094/1987/16

Registered office: 68 York Street
SYDNEY NSW 2000

ACN: 008 672 599

Premises address: Premier Coal mining operations
AM 70/262, Premier Road,
COLLIE WA
Being part of AM 70/262

Issue date: Thursday, 8 October 2015

Commencement date: Wednesday, 14 October 2015

Expiry date: Friday, 13 October 2028

Decision

Based on the assessment detailed in this document the Department of Water and Environmental Regulation (DWER), has decided to issue an amended licence. DWER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by: Jamie Piotrowski
Licensing Officer

Decision Document authorised by: Tim Gentle
Delegated Officer



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1 Purpose of this Document

This decision document explains how DWER has assessed and determined the application and provides a record of DWER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DWER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	Category numbers	Assessed design capacity
	9: Coal mining	5 million tonnes per annual period
	64: Class II or III Putrescible Landfill Site	1000 tonnes per annual period
Application verified	Date: N/A	
Application fee paid	Date: N/A	
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Commercial-in-confidence claim outcome		
Is the proposal a Major Resource Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Referral decision No: Managed under Part V <input checked="" type="checkbox"/> Assessed under Part IV <input checked="" type="checkbox"/>



Is the proposal subject to Ministerial Conditions?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ministerial statement No: 234, 310, 416. EPA Report No: 601, 666, 795
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Department of Water consulted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.		
Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

3 Executive summary of proposal and assessment

Premier Coal Limited (PCL) is a wholly owned subsidiary of Yancoal Australia Group and operates a number of open cut pits as part of the ‘Premier coal mining operations’. The site is located approximately 200 km south of Perth and 10 km SE of the town of Collie. The area surrounding the site supports a variety of land uses including coal mining, agriculture, forestry, apiculture, power production, tourism, quarrying and recreation.

The mine consists of a number of operational and planned pits over a footprint of approximately 1600 hectares. Coal is mined using a “truck and shovel” operation. Vegetation, topsoil and overburden is removed, then the coal is mined then hauled to the coal handling plant where it is crushed and sized before being blended and stockpiled. Coal product is then delivered to either of the two nearby coal-fired power stations, Muja or Collie “A”, via overland conveyor systems.

Pit dewatering is undertaken to ensure a relatively dry mining environment. The majority of the dewater is discharged into the Collie River East branch with some being used for operational tasks and dust suppression.

The main emissions from the PCL operations are dust, noise, contaminated stormwater and dewater. The Premier coal mining operations are managed under a number of Ministerial Statements that include the management of noise, dust and groundwater extraction. PCL maintains and implements a number of management strategies designed to minimise environmental impacts from their operations.

This assessment is the result of an amendment sought by the Licensee to relocate the waste disposed of in the current Class II landfill and create a new landfill.



Landfill Relocation

PCL proposes to undertake the following actions in regards to its licensed landfill:

1. Close the current landfill site;
2. Excavate a relocation pit approximately 500 meters to the south-east of the current landfill site;
3. Excavate and move the contents of the current landfill site into the relocation pit;
4. Cover and cap the relocation pit; and
5. Open a new landfill site to the north of the old site for ongoing disposal.

PCL currently operates a licensed landfill facility within the Premier Mine premises boundary, AM/70/262. The landfill was included on the licence in 2008 in the current location. PCL has recently obtained approval under Part IV of the *Environmental Protection Act 1986* to develop Pit 5. The Pit 5 footprint encompasses the current location of the landfill, thus a new location will need to be found for the contents of the existing landfill.

PCL propose to relocate the existing in-situ waste material to a relocation pit immediately south-east of the Pit 5 footprint and to then cap the waste with 1 metre of overburden. The new waste pit will not then continue to operate as a landfill. The proposed location for the transferred waste is approximately 70 meters above the high groundwater mark. The site is scheduled to be rehabilitated by 2019, with a 5 metre inert cover to be installed prior to revegetation. The total waste to be moved from the old landfill area to the relocation pit is estimated to be 48 000 m³. Due to the site similarities between the current landfill and the relocation pit, there is not expected to be any additional impacts to the environment and no conditions will be added to the licence. The material to be transferred from the old landfill to the relocation pit is considered to be low risk as it contains inert and putrescible materials only.

The transfer of waste material from the old landfill to the relocation pit will be conducted within the premises boundary and not on public roads, therefore the Environmental Protection (Controlled Waste) Regulations 2004 will not apply. The waste transfer is not expected to impact on sensitive receptors (noise, odour or dust) as the distance to the nearest sensitive receptor is over 3km.

The new landfill to the north will be designed similar to the existing landfill. Waste generated onsite is initially sorted and recycled accordingly. Hydrocarbon waste products are separated and disposed of off-site by a licenced third party carrier. Items such as used batteries, steel, cardboard, paper, pallets and cable rolls are removed from the waste stream and taken off site. Waste not deemed recyclable is disposed of in the landfill on site.

Figure 1 below shows the location of the current landfill, the proposed relocation pit and the proposed new landfill.

Biosolids Application

PCL propose to trial the use of biosolids as a soil conditioner prior to rehabilitation of post-mining areas. Biosolids will be sourced from Water Corporation sites and trucked onsite to be applied onto land within 36 hours. No long-term storage of biosolids will be undertaken on PCL land prior to application. PCL will be undertaking application of biosolids in conformance with the guidance document from the Department of Health and Water Corporation *Biosolids: a renewable resource* Water Corporation, October 2011 and the *Western Australian Guidelines for Biosolids Management* DEC, December 2012 (biosolids guidelines). Pathogen and contaminant grading of biosolids will be undertaken before each application to ensure it meets the minimum requirements set out in the biosolids guidelines. For the trial, PCL will be limiting the amount of biosolids applied to under 1 000 tonnes per annum which is below the threshold for regulation under Part V of the *Environmental Protection Act 1986*. Therefore the application of biosolids is not authorised under this licence.

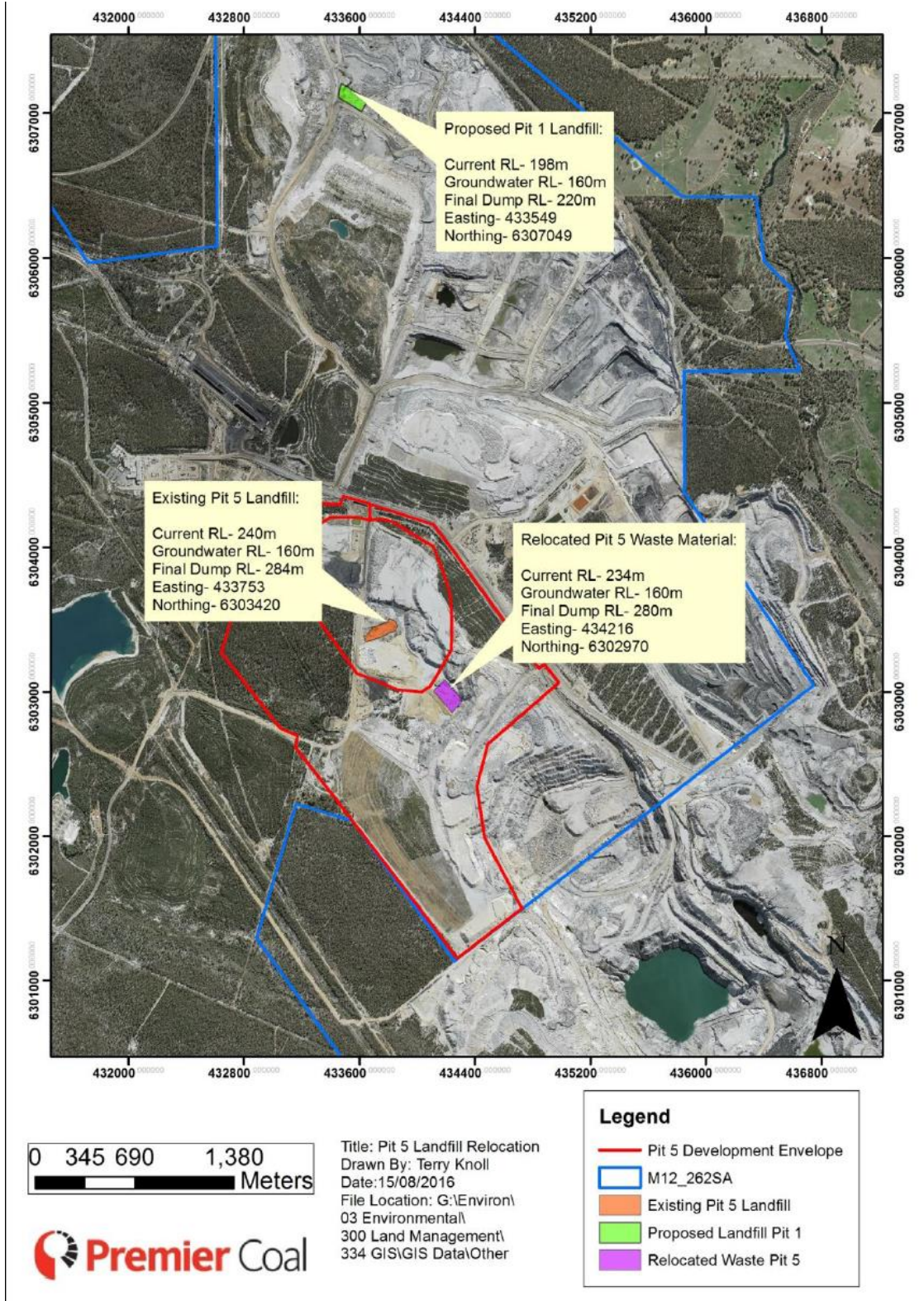


Figure 1: Existing and proposed landfill sites.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DWER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

DECISION TABLE			
Licence section	Condition number	Justification (including risk description & decision methodology where relevant)	Reference documents
Premises operation	Table 1.2.2 L1.2.2 and 1.2.3 L2.2.2	<p>Category 64 (Class II or III putrescible landfill)</p> <p><u>Emission Description</u> <i>Emission:</i> Waste and leachate contaminating local surface and ground waters from landfill activities. <i>Impact:</i> Contamination of surrounding ground and surface water drainage systems via runoff and infiltration from severe rain events. Potential impacts on ecology of surface water from leachate which may contain nutrients and metals or metalloids. <i>Controls:</i> Surface water flow is controlled onsite and testing of water is undertaken monthly while discharging and is subject to a licence limit for various parameters under existing licence condition 2.2.2. PCL undertake a recycling program to ensure that hazardous/controlled wastes are separated and either recycled or disposed of at an off-site licenced facility. Only materials that are classified as <i>solid</i> and <i>non-hazardous</i> are sent to the PCL landfill for disposal.</p> <p>The landfill is constructed of in-situ materials, but the relatively small volumes (under 1000 tonnes per annum) and the waste types (solid, non-hazardous) means that the risk of groundwater contamination is low. Groundwater is unlikely to be impacted by the landfill activities due to a minimum separation distance from the bottom of the landfill to the high groundwater mark of 38 meters.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p>	<p>Westfarmers Premier Coal <i>Environmental Management Plan</i></p> <p><i>Landfill Waste Classifications and Waste Definitions 1996</i></p> <p><i>Western Australian Guidelines for Biosolids Management</i> DEC, December 2012</p>



DECISION TABLE			
Licence section	Condition number	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p><u>Regulatory Controls</u> Condition 1.2.2 allows the licensee to bury a maximum 1000 tonnes per year of the following waste types:</p> <ul style="list-style-type: none"> • Clean Fill; • Putrescible Wastes; • Inert Waste Type 1; • Used tyres; and • Inert Waste Type 2. <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p>	
Point source emissions to surface water including monitoring	Table 2.2.1, Table 2.2.2 and Table 3.2.1	<p><i>Water Treatment Plant</i> has been removed as an emission point reference in Tables 2.2.1, 2.2.2 and 3.2.1. The discharge of mining dewater through the water treatment plant into the Collie River East Branch is managed through the Operating Strategy required under the under the <i>Rights in Water and Irrigation Act 1911</i> (GWL95416 (6)).</p> <p>According to DWER Guidance Statement <i>Setting Conditions</i> 2015, conditions will not be unnecessarily duplicated if they are already imposed upon the licensee through another written law. As such, the requirement to undertake water sampling on the discharge water out of the treatment plant has been removed as it is a requirement under the Operating Strategy required under the <i>Rights in Water and Irrigation Act 1911</i>.</p>	<p><i>Rights in Water and Irrigation Act 1911</i></p> <p>DWER Guidance Statement <i>Setting Conditions</i> 2015</p>
Information	L4.1.2 Table 4.2.1	<p>The following condition has been amended to update the need for the licensee to submit a Compliance Report. The condition previously read:</p> <p><i>4.1.2 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.</i></p>	DWER Guidance Statement – Redundant Conditions (November 2015)



DECISION TABLE			
Licence section	Condition number	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>The condition now reads:</p> <p>4.1.3 <i>The Licensee must submit to the CEO within 90 days after the Anniversary Date, a Compliance Report indicating the extent to which the Licensee has complied with the Conditions in their Licence for the Annual Period.</i></p> <p>Table 4.2.1 has been amended to remove the reference to <i>Annual Audit Compliance Report</i> and replaced with <i>Compliance Report</i>.</p>	



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
20/02/2017	Proponent sent a copy of draft amended instrument	Licensee commented that the condition regarding discharge from the treatment plant to Collie River East Branch was a duplication of the requirement for Premier Coal to undertake monitoring and sampling of the water entering the river under the <i>Rights in Water and Irrigation Act 1911</i> .	The condition to monitor water disposed into the Collie River East Branch duplicated requirements of the Operating Strategy required under the <i>Rights in Water and Irrigation Act 1911</i> and therefore has been removed from L5094/1987/16.



6 Risk Assessment

Note: This matrix is taken from the DWER Corporate Policy Statement No. 07 - Operational Risk Management

Table 1: Emissions Risk Matrix

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High