



Licence

Environmental Protection Act 1986, Part V

Licensee: **Kundana Gold Pty Ltd**

Licence: **L7323/1998/12**

Registered office: Level 1, 388 Hay St
 SUBIACO WA 6008

ACN: 009 643 252

Premises address: Kundana Gold Mine
 Mining tenements M16/72, M16/73, M16/87, M16/97, M16/157,
 M16/308, M16/309, M15/669, M15/993, M16/428, M24/924, L16/39,
 L16/40, L16/54, L16/106
 KALGOORLIE WA 6430
 as depicted in Schedule 1.

Issue date: Thursday, 19 December 2013

Commencement date: Friday, 10 January 2014

Expiry date: Wednesday, 9 January 2019

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
6	Mine dewatering: premises on which water is extracted and discharged into the environment to allow mining of ore.	50 000 tonnes or more per year	12 000 000 tonnes per annual period
89	Putrescible landfill site: premises on which waste (as determined by reference to the waste type set out in the document entitled "Landfill Waste Classification and Waste Definitions 1996 (As amended December 2009)" published by the Chief Executive Officer and as amended from time to time) is accepted for burial.	More than 20 but less than 5 000 tonnes per year	5 000 tonnes per annual period

Conditions

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

.....
Danielle Eyre

Senior Manager – Industrey Regulation (Resource Industries)
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.

DER's industry licensing role

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

DER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DER 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

Kundana Gold Pty Ltd (Kundana) is a gold mining company with its primary business purpose being the mining of gold ore from open pits and underground mines. The site is a prescribed premises due to mine dewatering operations which are discharged into various void pits and to White Flag lake. In addition there is a Class II putrescible landfill on site, also managed under this licence.

Prior to 2004, Kundana operated a gold mill which was licenced under category 5 of the *Environmental Protection Regulations 1987*. In March 2004, the mill was placed in care and maintenance and consequently the category was removed from the licence. Monitoring of groundwater, however, is still on the licence in relation to inactive tailings storage facilities (TSF) 1, 2 and 3.

Mine dewater is pumped via pipelines from the Kundana mining operations and the Mungari Gold Projects. The mine dewater is generally hypersaline at > 100,000 mg/L total dissolved solids (TDS) and is either reused in mining and ancillary operations, stored in pits, or the transfer dam prior to being discharged to White Flag Lake.

The White Flag Lake Water transfer system has been designed to facilitate flexibility with regards to dewatering activities associated with the Kundana and Mungari operations.

This licence amendment is to assess and include a new putrescible landfill cell located closer to the Rubicon-Hornet-Pegasus operations within the Rubicon waste rock dump.

The licences and works approvals issued for the premises since 5 January 2004 are:

Instrument log		
Instrument	Issued	Description
L7323/1998/7	05/01/2004	Licence re-issue
W3973/1998/1	24/05/2004	Category 6 and 64 works approval
L7323/1998/8	13/01/2005	Licence re-issue
W4101/1998/1	18/03/2005	Category 6 and 64 works approval
L7323/1998/9	11/01/2006	Licence re-issue
L7323/1998/10	02/11/2009	Licence re-issue
L7323/1998/11	06/01/2011	Licence re-issue
L7323/1998/12	19/12/2013	Licence re-issue and amendment to current format
L7323/1998/12	08/01/2015	Licence amended for administrative errors
L7323/1998/12	26/11/2015	Licence amended to include new landfill cell

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*;

'annual period' means the inclusive period from 1 January until 31 December in the same year;

'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 5667.4' means the Australian Standard AS/NZS 5667.4 *Water Quality – Sampling – Guidance on sampling from lakes, natural and man-made*;

'AS/NZS 5667.11' means the Australian Standard AS/NZS 5667.11 *Water Quality – Sampling – Guidance on sampling of groundwaters*;

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

'CEO' means Chief Executive Officer of the Department of Environment Regulation;

'CEO' for the purpose of correspondence means;

Director General

Department Administering the *Environmental Protection Act 1986*

Locked Bag 33

CLOISTERS SQUARE WA 6850

Email: info@der.wa.gov.au

'environmentally hazardous material' means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises may cause pollution or environmental harm. Note: Environmentally hazardous materials include dangerous goods where they are stored in quantities below placard quantities. The storage of dangerous goods above placard quantities is regulated by the Department of Mines and Petroleum;

'Licence' means this Licence numbered L7323/1998/12 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;

'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; and



'Schedule 2' means Schedule 2 of this Licence unless otherwise stated.

- 1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the 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.
- 1.1.5 Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:
- (a) pollution;
 - (b) unreasonable emission;
 - (c) discharge of waste in circumstances likely to cause pollution; or
 - (d) being contrary to any written law.

1.2 General conditions

- 1.2.1 The Licensee shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.
- 1.2.2 The Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.
- 1.2.3 The Licensee shall:
- (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and
 - (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.¹

Note1: *The Environmental Protection (Unauthorised Discharges) Regulations 2004* make it an offence to discharge certain materials into the environment.

1.3 Premises operation

- 1.3.1 The Licensee shall ensure that all pipelines containing environmentally hazardous substances are either:
- (a) equipped with automatic cut-outs in the event of a pipe failure; or
 - (b) provided with secondary containment sufficient to contain any spill for a period equal to the time between routine inspections.
- 1.3.2 The Licensee shall ensure that any saline dewatering effluent shall only be disposed of in the following manner:
- (a) used for dust suppression; or
 - (b) discharged in accordance with the conditions in section 2 of this Licence.
- 1.3.3 The Licensee shall undertake an annual assessment of dewatering discharge and shall provide a dewatering discharge report to the Director. This report shall show the impacts of the mine dewatering discharges to the receiving environment, consistent with the requirements specified in Schedule 2. This report will accompany the Annual Environmental Report and will cover the previous 12 month period from 1 January to 31 December.
- 1.3.4 The Licensee shall:
- (a) undertake inspections as detailed in Table 1.3.1;
 - (b) where any inspection identifies that an appropriate level of environmental protection is not being maintained, take corrective action to mitigate adverse environmental consequences as soon as practicable; and
 - (c) maintain a record of all inspections undertaken.



Table 1.3.1: Inspection of infrastructure

Scope of inspection	Type of inspection	Frequency of inspection
Dewatering pipelines	Visual integrity	Daily

- 1.3.5 The Licensee shall only accept waste on to the landfill if:
- it is of a type listed in Table 1.3.2;
 - the quantity accepted is below any quantity limit listed in Table 1.3.2; and
 - it meets any specification listed in Table 1.3.2.

Table 1.3.2: Waste acceptance

Waste type	Quantity limit	Specification ¹
Inert Waste Type 1; Inert Waste Type 2; Putrescible waste; or Clean fill	5 000 tonnes per annual period	None specified

Note 1: Additional requirements for the acceptance of controlled waste (including asbestos and tyres) are set out in the Environmental Protection (Controlled Waste) Regulations 2004.

- 1.3.6 The Licensee shall ensure that wastes accepted onto the landfill are only subjected to the processes set out in Table 1.3.3 and in accordance with any process limits described in that Table.

Table 1.3.3: Waste processing

Waste type	Processes	Process limits ^{1,2}
Inert Waste Type 1 and 2	Receipt, handling and disposal of waste by landfilling	<u>All waste types</u> Disposal of waste by landfilling shall only take place within the landfill area shown on the Landfill Area Map in Schedule 1; The size of the tipping area is kept to a maximum length of 30 metres; and The separation distance between the base of the landfill and the highest groundwater level shall not be less than 2m.
Putrescible waste		
Clean Fill		

Note 1: Requirements for landfilling tyres are set out in Part 6 of the Environmental Protection Regulations 1987.

Note 2: Additional requirements for the acceptance and landfilling of controlled waste (including asbestos and tyres) are set out in the Environmental Protection (Controlled Waste) Regulations 2004.

- 1.3.7 The Licensee shall ensure that cover is applied and maintained on landfilled wastes in accordance with Table 1.3.4 and that sufficient stockpiles of cover are maintained on site at all times.

Table 1.3.4: Cover requirements¹

Waste type	Material	Depth	Timescales
All wastes described in Table 1.3.6	Type 1 Inert waste or soil	Sufficient to ensure the waste is completely covered and that no waste is exposed	Cover shall be applied monthly

Note 1: Additional requirements for the covering of tyres are set out in Part 6 of the Environmental Protection Regulations 1987.

- 1.3.8 The licensee shall ensure that wind-blown waste is contained within the boundary of the premises.



- 1.3.9 The Licensee shall construct the works associated with the new landfill cell in accordance with the documentation detailed in Table 1.3.5.

Table 1.3.5: Construction Requirements¹

Document	Parts	Date of Document
Kundana Gold Pty Ltd, Licence L7323/1998/12 – P4 Application Supporting Documentation	All, including Drawings and Appendices	15 October 2015

Note 1: Where the details and commitments of the documents listed in condition 1.3.9 are inconsistent with any other condition of this licence, the conditions of this licence shall prevail.

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 waste is emitted to surface water from the emission points in Table 2.2.1 and identified on the map of emission points 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	Emission point reference on Map of emission points	Description	Source including abatement
White Flag lake (WFL)	MS95	Discharge to White Flag lake	Dewatering discharge from Kundana mine operations and Mungari Gold Project via a suitable energy dissipation device to ensure minimal erosion and scouring impacts, reduce the likelihood of ponding in White Flag lake and minimise damage to surrounding vegetation.

2.3 Emissions to land

- 2.3.1 The licensee is permitted, subject to conditions in the licence, to emit waste to land through the emissions points listed in Table 2.3.1.

Table 2.3.1: Emission points to land

Emission point reference	Description	Source including abatement
Kurrawang pit	Receiving environment – previously mined pit	Water from dewatering of Kundana mine operations and Mungari Gold Project
Pope John pit		
South pit		



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 surface water sampling is conducted in accordance with AS/NZS 5667.4, AS/NZS 5667.6 or AS/NZS 5667.9 as relevant;
- (c) all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
- (d) all laboratory samples are submitted to a laboratory with current NATA accreditation for the parameters to be measured unless indicated otherwise in relevant table.

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
MS95, MS200 and MS96	pH ¹	-	Quarterly (February, May, August and November) when accessible.
	TDS, TSS, arsenic, cadmium, chromium, copper, lead, nickel, sulphate, nitrate, carbonate, bicarbonate, sodium, magnesium, calcium, iron, potassium and chlorine.	mg/L	

Note 1: In-field, non-NATA accredited measurement is permitted.

3.3 Monitoring of point source emissions to groundwater

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 point source emissions to groundwater			
Monitoring point reference	Parameter	Units	Frequency
TSF monitoring sites: MS11, MS12, MS13, MS16, MS17, MS18, MS20, MS21, MS22, MS112, MS113, MS114 and MS119	pH ¹ , TDS, weak acid dissociable cyanide (WAD-CN) and SWL ²	mg/L	Six-monthly - when accessible

Note 1: In-field, non-NATA accredited measurement is permitted.

Note 2: SWL shall be measured prior to any other monitoring being undertaken

3.4 Process monitoring

3.4.1 The Licensee shall undertake the monitoring in Table 3.4.1 according to the specifications in that table.

Table 3.4.1: Process monitoring					
Monitoring point reference	Process description	Parameter	Units	Frequency	Method
Flow meters located between MS200 and MS95	Volume (cumulative) of dewatering water	Volume of dewatering water	kL	Continuous / Monthly	Flow monitoring device



4 Information

4.1 Records

- 4.1.1 All information and records required by the Licence shall:
- (a) be legible;
 - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
 - (c) 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
 - (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect the condition of the land or waters.
- 4.1.2 The Licensee shall ensure that:
- (a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
 - (b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.
- 4.1.3 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.
- 4.1.4 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 90 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
1.3.3	Dewatering discharge report	None specified
Table 3.3.1	Monitoring of point source emissions to surface water	None specified
Table 3.4.1	Monitoring of point source emissions to groundwater	None specified
Table 3.7.1	Process monitoring	None specified
4.1.3	Compliance	Annual Audit Compliance Report (AACR)
4.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2

- 4.2.2 The Licensee shall ensure that the Annual Environmental Report also contains:
- (a) any relevant process, production or operational data; and
 - (b) an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets



- 4.2.3 The Licensee shall submit the information in Table 4.2.2 to the CEO according to the specifications in that table.

Table 4.2.2: Non-annual reporting requirements				
Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form
-	Copies of original monitoring reports submitted to the Licensee by third parties	Not Applicable	Within 14 days of the CEOs request	As received by the Licensee from third parties

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 requirement ¹	Format or form ²
2.1.1	Breach of any limit specified in the licence	No later than 5pm of the next usual working day.	N1

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

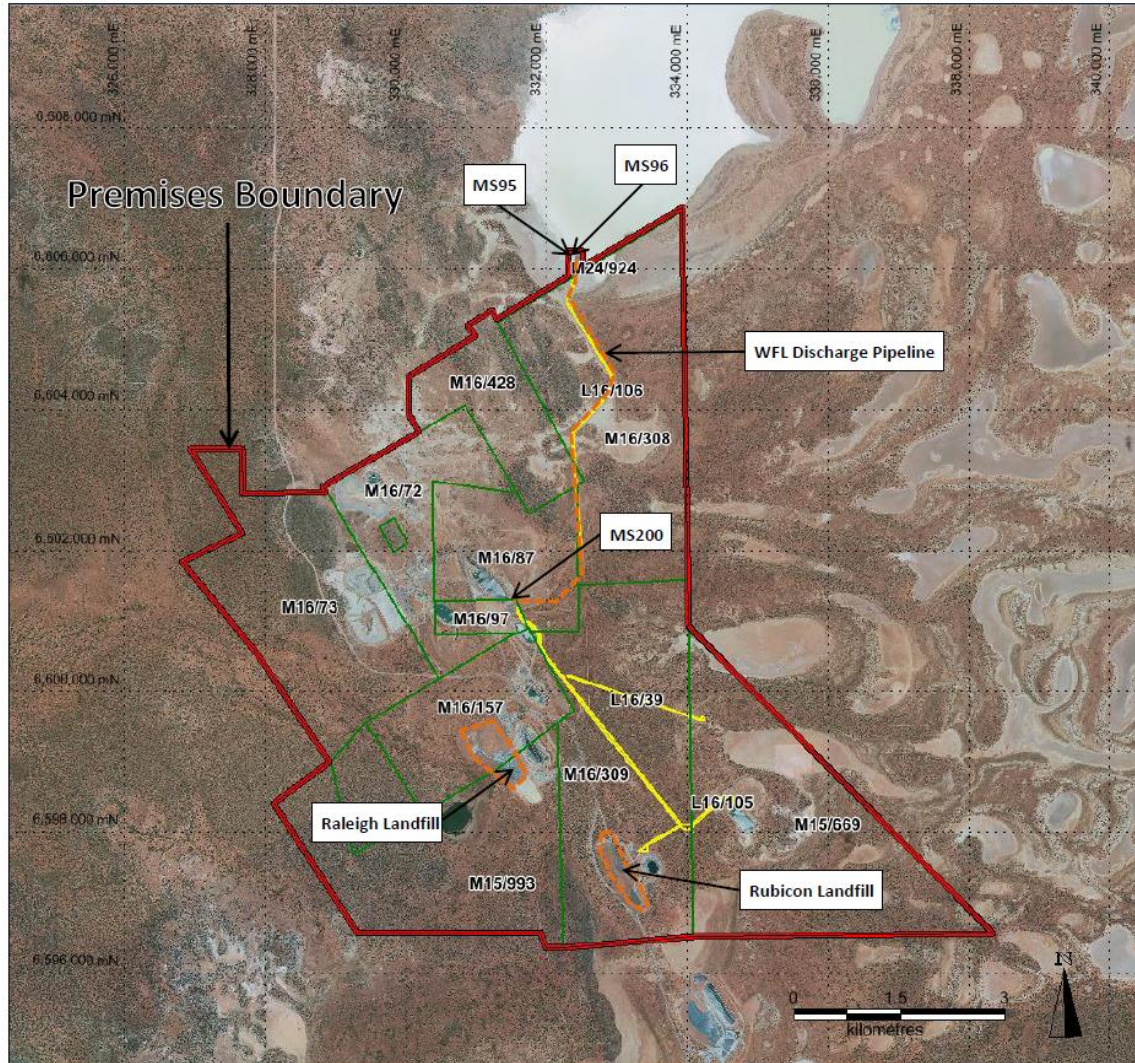
- 4.3.2 The Licensee shall submit a compliance document to the CEO, following the construction of the works detailed in condition 1.3.9.
- 4.3.3 The compliance document shall:
- (a) certify that the works were constructed in accordance with the conditions of the Licence;
 - (b) be signed by a person authorised to represent the Licensee and contain the printed name and position of that person within the company.



Schedule 1: Maps

Premises map

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





Map of emissions points

The locations of the emission points defined in Tables 2.3.1. are shown below.

Detailed view of MS95

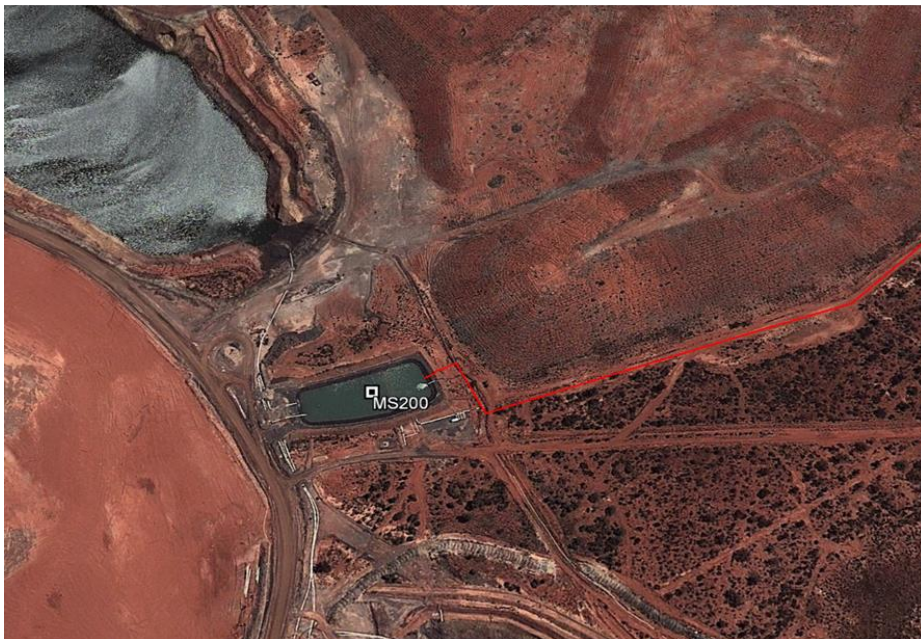




Map of monitoring locations

The locations of the monitoring points defined in Table 3.3.1 are shown below.

Detailed view of MS95, MS96 and MS200

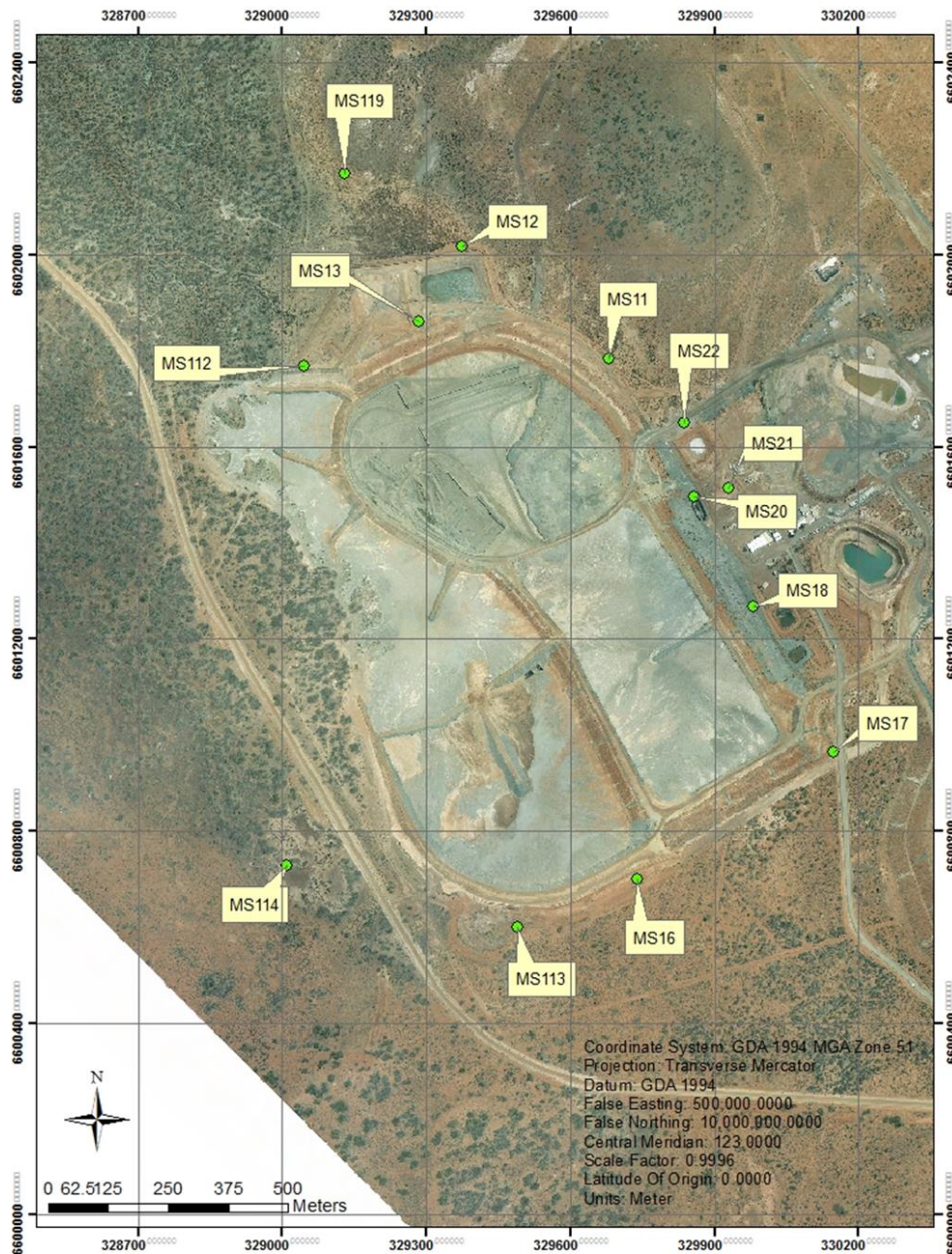




Map of monitoring locations

The locations of the monitoring points defined in Table 3.4.1.

Kundana TSF Monitoring Locations





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.

ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

SECTION A LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name: Trading as:	ABN:
Reporting period: _____ to _____	

STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

1. Were all conditions of the Licence complied with within the reporting period? (please tick the appropriate box)

Yes ☐ Please proceed to Section C

No ☐ Please proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this Annual Audit Compliance Report (AACR).

Initial:



SECTION B

DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

Please use a separate page for each Licence condition that was not complied with.

a) Licence condition not complied with:	
b) Date(s) when the non compliance occurred, if applicable:	
c) Was this non compliance reported to DER?:	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DER verbally Date _____ <input type="checkbox"/> Reported to DER in writing Date _____	<input type="checkbox"/> No
d) Has DER taken, or finalised any action in relation to the non compliance?:	
e) Summary of particulars of the non compliance, and what was the environmental impact:	
f) If relevant, the precise location where the non compliance occurred (attach map or diagram):	
g) Cause of non compliance:	
h) Action taken, or that will be taken to mitigate any adverse effects of the non compliance:	
i) Action taken or that will be taken to prevent recurrence of the non compliance:	

Each page must be initialled by the person(s) who signs Section C of this AACR

Initial:



SECTION C

SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) may only be signed by a person(s) with legal authority to sign it. The ways in which the AACR must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	by affixing the common seal of the licensee in accordance with the <i>Corporations Act 2001</i> ; or by two directors of the licensee; or by a director and a company secretary of the licensee, or if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A public authority (other than a local government)	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
a local government	<input type="checkbox"/> <input type="checkbox"/>	by the chief executive officer of the licensee; or by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: _____

NAME:
(printed) _____

POSITION: _____

DATE: ____/____/____

SEAL (if signing under seal)

SIGNATURE: _____

NAME:
(printed) _____

POSITION: _____

DATE: ____/____/____



Dewatering discharge reporting requirements (mine dewatering only)

The licensee shall prepare a report which will provide the CEO adequate data to show the impacts of the mine dewatering discharges to the receiving environment. The required information should come in the form of a concise report, which should include, but not necessarily be limited to:

SITE DESCRIPTION

1. Site description (aerial photographs etc), including plan showing dewatering discharge point(s);
2. Topographical and meteorological data;
3. Hydrology – Catchment, rainfall and evaporation, runoff etc;

DESCRIPTION OF RECEIVING ENVIRONMENT

4. Significance of waterbody/watercourse with respect to flora and fauna;
5. Waterbody/watercourse levels as a result of rainfall events (with respect to the seasonality of the waterbody/watercourse);

IMPACT ON RECEIVING ENVIRONMENT

6. Dewater discharge (volume and quality) as compared to runoff into the waterbody/watercourse and water quality (salt and metals) of the receiving waters;
7. The area of the waterbody/watercourse likely to be affected by the dewater discharge, and effects on waterbody/watercourse levels resulting from the discharge;
8. The potential for water to flow along/out of the receiving waterbody/watercourse;
9. If dewatering occurs to a creek system (permanent or ephemeral), it will also be necessary to consider the consequences of the alteration of that receiving environment, especially with respect to the impacts on vegetation and existing ecosystems;
10. Descriptions and monitoring of native vegetation surrounding the receiving environment;
11. Water balance estimates – including dewater and non-dewater scenarios (with and without consideration of runoff events);
12. Chemistry of the waterbody/watercourse – including dewater and non-dewater scenarios (with and without consideration of runoff events); and

SUMMARY

13. Findings, conclusions and recommendations.

(where your discharge is not the only discharge to a system, data from the other site(s) should be collected and incorporated into the report where possible).

The report should be provided within the Annual Environmental Report required by a condition of your current licence.



Licence: L7323/1998/12
Form: N1

Licensee: Kundana Gold Pty Ltd
Date of breach:

Notification of detection of the breach of a limit or any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution.

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 Kundana Gold Pty Ltd	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: **Kundana Gold Pty Ltd**

Licence: **L7323/1998/12**

Registered office: Level 1, 388 Hay St
 SUBIACO WA 6008

ACN: 009 643 252

Premises address: Kundana Gold Mine
 Mining tenements M16/72, M16/73, M16/87, M16/97, M16/157,
 M16/308, M16/309, M15/669, M15/993, M16/428, M24/924, L16/39,
 L16/40, L16/54, L16/106
 KALGOORLIE WA 6430

Issue date: Thursday, 19 December 2013

Commencement date: Friday, 10 January 2014

Expiry date: Wednesday, 9 January 2019

Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue an amended licence. DER considers that in reaching this decision, it has taken into account all relevant considerations and legal requirements and that the Licence and its conditions will ensure that an appropriate level of environmental protection is provided.

Decision Document prepared by: Fiona Sharpe
 Licensing Officer

Decision Document authorised by: Danielle Eyre
 Delegated Officer



Contents

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1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER'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 number(s)	Assessed design capacity
	6	12 000 000 tonnes per annual period
	89	5 000 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 type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:
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 type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input type="checkbox"/>	



Is the Premises within an Environmental Protection Policy (EPP) Area Yes ☐ No ☒

Is the Premises subject to any EPP requirements? Yes ☐ No ☒

3 Executive summary of proposal and assessment

Kundana Gold Pty Ltd (Kundana) is a gold mining company with its primary business purpose being the mining of gold ore from open pits and underground mines. The site is a prescribed premise due to mine dewatering operations, with discharge into various void pits and to White Flag lake. In addition there is a Class II putrescible landfill on site, also managed under this licence.

Kundana is located approximately 25 kilometres (km) west north-west of Kalgoorlie on mining tenements M16/72, M16/73, M16/87, M16/97, M16/157, M16/308, M16/309, M15/669, M15/993, L16/39, L16/40 and L16/54. The area is part of the Coolgardie Biosphere characterised by eucalypt woodlands overlying Archaean greenstone rocks with red-brown sandy soils and loams. The natural drainage through the Kundana site is in a north-east to easterly direction towards White Flag lake.

Prior to 2004, Kundana operated a gold mill which was licenced under category 5 of the *Environmental Protection Regulations 1987*. In March 2004, the mill was placed in care and maintenance and consequently the category was removed from the licence. Monitoring of groundwater, however, is still on the licence in relation to inactive tailings storage facilities (TSF) 1, 2 and 3.

Kundana is licenced to discharge water from mine dewatering to White Flag lake (one of a number of salt lakes in the Goldfields region used for this type of discharge) and this includes discharge from the Kundana site (Raleigh underground mine and various other open pits) as well as dewatering discharge from the Mungari Gold Project that Kundana manages via an agreement with La Mancha Resources Australia Pty Ltd. The project was referred to the EPA by Kundana in 2003, but was not formally assessed and was recommended to be managed under Part V of the *Environmental Protection Act 1986*.

Mine dewater is pumped via pipelines from the Kundana mining operations and the Mungari Gold Projects. The mine dewater is generally hypersaline at >100,000mg/L total dissolved solids (TDS) and is either reused in mining and ancillary operations, stored in pits or at the transfer dam prior to being discharged to White Flag Lake.

The White Flag Lake Water transfer system has been designed to facilitate flexibility with regards to dewatering activities associated with the Kundana and Mungari operations.

This licence amendment is to assess and include a new putrescible landfill cell located closer to the Rubicon-Hornet-Pegasus operations within the Rubicon waste rock dump. The partial decision document below assesses the landfill and justifies the changes to the Licence.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DER'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			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	L1.2.1 – 1.2.3	Standard general conditions apply.	General provision of the <i>Environmental Protection Act 1986</i> .
Premises operation	L1.3.1 – 1.3.9	Construction and Operation <i>Emission:</i> Putrescible and inert waste generated from the Rubicon-Hornet-Pegasus operations will be disposed of into the new landfill. <i>Impact:</i> Contamination of groundwater through leachate generated from the decomposition of putrescible waste combined with infiltrating rainfall and contamination of stormwater run-off. <i>Controls:</i> The proposed landfill site will be designed and managed at the new location in the same manner as the existing Raleigh landfill. Waste will be disposed of in a defined trench or within an area enclosed by earthen bunds. The size of the tipping area will be kept to a maximum length of 30 metres. Given the location of the landfill will be on the waste rock dump, the separation between the base and the highest groundwater level will be greater than 2 metres. Waste will be covered at least monthly with a sufficient amount of material to ensure there is no wind-blown waste, odour impacts are managed and that minimal waste is left exposed. Types of waste that will be accepted are inert waste type 1 and 2, putrescible waste and clean fill. Records will be kept of waste disposed into the site.	Application supporting documentation General provision of the <i>Environmental Protection Act 1986</i> .



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> Premises operation conditions 1.3.5 – 1.3.8 are deemed adequate to manage the new landfill cell. An updated map has been added to the licence which depicts the location of the new landfill. General condition 1.2.5 ensures contaminated stormwater run-off is prevented.</p> <p>Condition 1.3.9 has been included to allow construction for the new landfill cell.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p>	
Fugitive emissions	No conditions	Previous fugitive condition 2.6.1 has been removed in this amendment. The risk of fugitive dust emissions are low, given the remoteness of the site and the management used for dust suppression. No conditions relating to dust are required.	General provision of the <i>Environmental Protection Act 1986</i> .
Information	L4.3.2 – 4.3.3	Two conditions have been added to notifications to ensure the Licensee submits a compliance certificate upon completion of construction of the new landfill cell.	N/A



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
18/11/2013	Application advertised in West Australian (or other relevant newspaper)	No comments received	N/A
18/11/2012	Application referred to interested parties listed Department of Mines and Petroleum; City of Kalgoorlie-Boulder	No comments received	N/A
5/11/2015	Proponent sent a copy of draft instrument	No comments received	N/A



6 Risk Assessment

Note: This matrix is taken from the DER 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