



Licence

Environmental Protection Act 1986, Part V

Licensee: Deflector Mining Limited

Licence: L7798/1993/6

Registered office: 41-43 Ord Street
WEST PERTH WA 6005

ACN: 092 493 653

Premises address: Gullewa Gold-Copper Operations
Mining Tenements M59/49, L59/49, L59/64, M59/68, M59/356, M59/391,
M59/392, M59/335 and M59/442 Morawa - Yalgoo Road
YALGOO WA 6635
as depicted in Schedule 1.

Issue date: Thursday, 21 November 2013

Commencement date: Sunday, 1 December 2013

Expiry date: Friday, 30 November 2018

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
5	Processing or beneficiation of metallic or non-metallic ore	50,000 tonnes per annual period	300,000 tonnes per annual period
6	Mine dewatering	50,000 tonnes or more per annual period	300,000 tonnes per annual period

Conditions

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

Date signed: 21 January 2016

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Alana Kidd
Manager Licensing – 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

The Gullewa Gold/Copper Operations Project (the Project) is located 370 km north of Perth in the Yalgoo Mineral Field of the South Murchison District of Western Australia. The Project includes two operation areas on the Premises (1) the Gullewa Plant and (2) the Deflector Minesite. The Gullewa Plant and 45-person accommodation village is located on M59/49, 55 km south west of the town of Yalgoo in the Shire of Yalgoo. The Deflector Minesite is 7 km east of the Gullewa Plant on M59/442.

The Project operates under Licence L7798/1993/6 (Categories 05 and 06) covering the processing and beneficiation of ore and mine dewatering. The main components of the Project include:

- the Gullewa Plant; a gold-copper flotation concentrator facility capable of treating up to 300,000 tonnes per annum of ore;
- a paddock style Tailings Storage Facility (TSF), consisting of three cells across a combined area of 19.4 hectares (ha),
- a 45-personnel accommodation camp;
- the Deflector Minesite; and
- a bore field.

The Project, which has changed hands several times, commenced pit mining operations in 1994 but was placed in Care and Maintenance (C&M) in 1996 and remained idle until it was refurbished in 2001. It was reopened by Batavia Mining Ltd in 2002, but was again placed in C&M in January 2003. The Project has remained in C&M since this time.

Mutiny Gold (Mutiny) acquired the Project in December 2011 and has since undertaken resource evaluation drilling and feasibility studies under Works Approval W5188/2012/1. In first Quarter 2015, Mutiny merged with Doray Minerals Limited (Doray) and its subsidiaries. As of 31 March 2015, as a result of this merger, Mutiny is now trading under the name 'Deflector Mining Ltd' but remains the same legal entity and retains the same ABN and ACN numbers.

Deflector Mining Ltd (the Licensee) commenced development works in June 2015 and mining operations are scheduled to recommence in Quarter 1 2016. This amendment was initiated by the Licensee to include dewatering to the Golden Stream Pit in preparation for mining operations recommencing. As part of this amendment the Licence was converted to version 2.9.

The Licences and Works Approvals issued for the Premises since 8 October 2002 are:

Instrument log		
Instrument	Issued	Description
L7798/1993/1	8/10/2002	New application
L7798/1993/2	3/11/2003	Licence re-issue
L7798/1993/3	3/08/2004	Licence re-issue
L7798/1993/4	26/10/2006	Licence re-issue
L7798/1993/5	27/11/2008	Licence re-issue



L7798/1993/5	25/07/2008	Licence amendment to transfer the licence from ATW (Aust) Pty Ltd to Mutiny Gold Ltd
W5188/2012/1	02/08/2012	Works Approval to rebuild the Gullewa processing plant
L7798/1993/6	21/11/2013	Licence re-issue
W5188/2012/1	18/12/2014	Works Approval amendment to relocate the processing operations to a site adjacent to the Deflector mine site within the same boundary area of the Premises.
L7798/1993/6	21/01/2016	Licence amendment to change the occupier name to Deflector Mining Ltd; include dewatering to the Golden Stream Pit and convert the Licence to template version 2.9.

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*;

'ANZECC 2000' means the most recent version and relevant parts of the *Australian and New Zealand Environment guidelines for fresh and marine water quality Volume 1 – 3* (Australian and New Zealand Environment and Conservation Council, Agriculture and Resource Management Council of Australia and New Zealand);

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

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

'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 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;

Chief Executive Officer
Department Administering the *Environmental Protection Act 1986*
Locked Bag 33
CLOISTERS SQUARE WA 6850
Email: info@der.wa.gov.au;

'**freeboard**' means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point;

'**kL**' means kilolitres;

'**Licence**' means this Licence numbered L7922/1989/5 and issued under the Act;

'**Licensee**' means the person or organisation named as Licensee on page 1 of the Licence;

'**m(AHD)**' means metres Australian Height Datum;

'**mg/L**' means milligrams per litre;

'**mm**' means millimetres;

'**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;

'**quarterly**' means the 4 inclusive periods from 1 April to 30 June, 1 July to 30 September, 1 October to 31 December and in the following year, 1 January to 31 March;

'**Schedule 1**' means Schedule 1 of this Licence unless otherwise stated;

'**Schedule 2**' means Schedule 2 of this Licence unless otherwise stated;

'**six monthly**' means the 2 inclusive periods from 1 July to 31 December and in the following year, 1 January to 30 June;

'**spot sample**' means a discrete sample representative at the time and place at which the sample is taken;

'**Standard Methods for Examination of Water and Wastewater**' means the most recent edition of the Standard Methods for Examination of Water and Wastewater as published by the American Public Health Association (APHA), the American Water Works Association (AWWA) and the Water Environment Federation (WEF), generally abbreviated to APHA-AWWA-WEF; and

'**TSF**' means tailings storage facility.

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.



- 1.1.5 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 install and maintain mechanisms to ensure that stormwater from the following areas, is diverted to facilities for treatment and disposal or reuse:
- (a) Process plants;
 - (b) Washdown bays;
 - (c) Refuelling areas; and
 - (d) Mechanical workshops.

1.3 Premises operation

- 1.3.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit in this section.
- 1.3.2 The Licensee shall carry out the Authorised Activities on the Premises in accordance with the requirements set out in Table 1.3.1.

Table 1.3.1: Authorised Activities		
Authorised activity	Process(es)	Process limits
Category 5	Processing or beneficiation of metallic or non-metallic ore	Processing of material at the premises shall not exceed 300,000 tonnes of ore per annual period
Category 6	Mine dewatering	Dewatering discharge at the premises shall not exceed 300,000 tonnes per annual period

- 1.3.3 The Licensee shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.3.2.

Table 1.3.2: Containment infrastructure for management of waste			
Storage vessel or compound as shown on the Premises map in Schedule 1	Material	Management Strategy	Requirements
TSF	Tailings and slurry	Containment in the TSF	The Licensee must: <ul style="list-style-type: none"> (i) maintain all installed toe drains and associated cut offs along the external toe of the TSF perimeter embankments, so that any liquid matter resulting from seepage or breach of the TSF embankments is contained and recovered; (ii) maintain a minimum top of embankment freeboard of 300 mm; and (iii) divert stormwater away from the TSF to minimise threat of accidental loss of stored matter due to flooding or erosion.



Settlement pond/s	Dewater	Containment in the settlement pond prior to discharge to Salt River	Prior to discharge to Salt River, the Licensee must: (i) direct dewater to the Settlement Pond/s; and (ii) retain dewater in Settlement Pond/s for a sufficient time to reduce Total Suspended Solids to less than 5,000 mg/L.
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- 1.3.4 The Licensee shall ensure that all pipelines containing tailings, recovered decant or dewatering effluent 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; or
 - (c) provided with telemetry systems and pressure sensors along pipelines carrying environmentally hazardous materials to allow the detection of leaks and failures.

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 Emissions to land

- 2.2.1 The Licensee shall ensure that where waste is emitted to land 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: Emissions to land		
Emission point reference on Map of emission points	Description	Source including abatement
Golden Stream Pit	End of pipe discharge	Water from dewatering of mine. Approved to discharge a maximum of 300,000 tonnes per annual period.
Salt River	Rock-armoured gabion outlet/s	

- 2.2.2 The Licensee shall ensure that all dewatering discharges to Salt River flow through a rock-armoured gabion outlet.

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



- 3.1.2 The Licensee shall ensure that:
- (a) quarterly monitoring is undertaken at least 45 days apart; and
 - (b) six monthly monitoring is undertaken at least 5 months apart; and
- 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.
- 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 emissions to land

- 3.2.1 The Licensee shall undertake the monitoring in Table 3.2.1 according to the specifications in that table and present this information in the Annual Environmental Report, including a comparison against the appropriate ANZECC 2000 water quality trigger values and previous years' monitoring data.

Table 3.2.1: Monitoring of emissions to land			
Emission point reference	Parameter	Units	Frequency
Salt River; and Golden Stream Pit As shown in Map of emission points in Schedule 1.	Cumulative volume	kL	Continuous
	pH ¹	pH units	
	Total Dissolved Solids	mg/L	Quarterly
	Total Suspended Solids		
	Major ions and metals - copper, sodium, chlorine, aluminium, cadmium, iron, magnesium, calcium, potassium, manganese, nickel, selenium, arsenic and lead.		

Note 1: In-field non-NATA accredited analysis permitted.

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: Process monitoring				
Monitoring point reference	Process description	Requirements	Frequency	Method
TSF	Tailings and slurry contained in TSF for drying and storage	<p>The Licensee shall undertake daily visual inspections of the TSF. As a minimum the following shall be inspected:</p> <ul style="list-style-type: none"> (i) tailings delivery lines; (ii) return water lines; (iii) tailings deposition; (iv) ponding on the surface of the TSF; (v) internal embankment freeboard; and (vi) the external walls of the TSF. <p>The Licensee shall ensure a log book is kept for all visual inspections. The log book shall be signed by the person undertaking the inspection and shall</p>	Daily	Visual inspection



		<p>indicate any problems noted.</p> <p>The Licensee shall ensure the log book is retained in the plant control room and is made available to an inspector on request.</p>		
Dewatering Pipeline and discharge points	Dewatering water	<p>The Licensee shall undertake daily visual inspections of the dewatering pipeline and discharge points to:</p> <ul style="list-style-type: none"> (i) identify any potential or actual pipeline failures and any erosion of the discharge sites; and (ii) identify any seepage, spills or leaks. <p>The Licensee shall ensure a log book is kept for all visual inspections of the dewatering pipeline and discharge points.</p>	Daily	Visual inspection

3.4 Ambient environmental quality monitoring

3.4.1 The Licensee shall undertake the monitoring in Tables 3.4.1 and 3.4.2 according to the specifications in those tables and present this information in the Annual Environmental Report, including a comparison against the appropriate ANZECC 2000 water quality trigger values and previous years' monitoring data.

Table 3.4.1: Monitoring of ambient groundwater quality

Monitoring point reference and location as depicted in Schedule 1	Parameter	Units	Averaging period	Frequency
Monitoring Bores: MB1-MB5	Standing Water Level (SWL) ¹	m(AHD)	Spot sample	Quarterly
	pH ²	-		
	Total Dissolved Solids Major ions and metals - copper (Cu), sodium (Na), chlorine (Cl), aluminium (Al), cadmium (Cd), iron (Fe), magnesium (Mg), manganese (Mn), nickel (Ni), selenium (Se), zinc (Zn), arsenic (As), lead (Pb), Weak Acid Dissociable Cyanide (WADCN)	mg/L		

Note 1: To be recorded prior to the collection of samples for other parameters

Note 2: Infield non-NATA accredited analysis permitted



Table 3.4.2: Monitoring of ambient vegetation quality

Monitoring point reference and location as depicted in Schedule 1	Parameter	Requirements	Frequency	Method
Photo monitoring sites: PS#1 – PS#4, PMS#1, PMS#6 and PSC#9	Vegetation health (i.e. decline in vegetation or change in composition)	The Licensee shall on a monthly basis: (i) take photographic images; (ii) provide a general environmental description of the site; and (i) record any changes to vegetation health or composition which may have been induced by dewatering.	Monthly while dewatering is occurring	Visual inspection and photographs

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 by 31 March each year. 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	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	Actual throughput for the annual period for Categories 5 and 6	
Table 3.2.1	All dewatering water monitoring parameters specified in Table 3.2.1	
Table 3.3.1	Summary of the TSF inspections including details on any seepage, spills or leaks and corrective measures undertaken to rectify any issues identified.	
Table 3.3.1	Summary of the dewatering pipeline and discharge point inspections including details on any identified pipeline failures, seepage, spills or leaks and corrective measures undertaken to rectify any issues identified.	
Table 3.4.1	All ambient groundwater quality monitoring parameters specified in Table 3.4.1	
Table 3.4.2	All ambient vegetation quality monitoring parameters specified in Table 3.4.2	
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:
- any relevant process, production or operational data recorded under Condition 3.1.3; and
 - an assessment of the information contained within the report against previous monitoring results and Licence limits.

- 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	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	Parameter	Notification requirement¹	Format or form²
L1.3.2 and L2.2.1	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. Part B: As soon as practicable	N1
3.1.5	Calibration report	As soon as practicable.	None specified
Table 3.3.1	The Licensee shall notify the CEO of any TSF pipeline failures and provide an estimate of the tailings and slurry lost due to the failure within one week of the incident.	As soon as practicable but no later than 5pm of the next usual working day. Volume estimate provided within one week of the incident.	None specified
Table 3.3.1	The Licensee shall notify the CEO of any dewatering pipeline failures and provide an estimate of the mine dewatering water lost due to the failure within one week of the incident.	As soon as practicable but no later than 5pm of the next usual working day. Volume estimate provided within one week of the incident.	None specified
Table 3.4.3	The Licensee shall notify the CEO of any identified detrimental vegetation impacts including details of a strategy for remediation works.	Within one week of the detrimental vegetation impacts being identified.	None specified

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

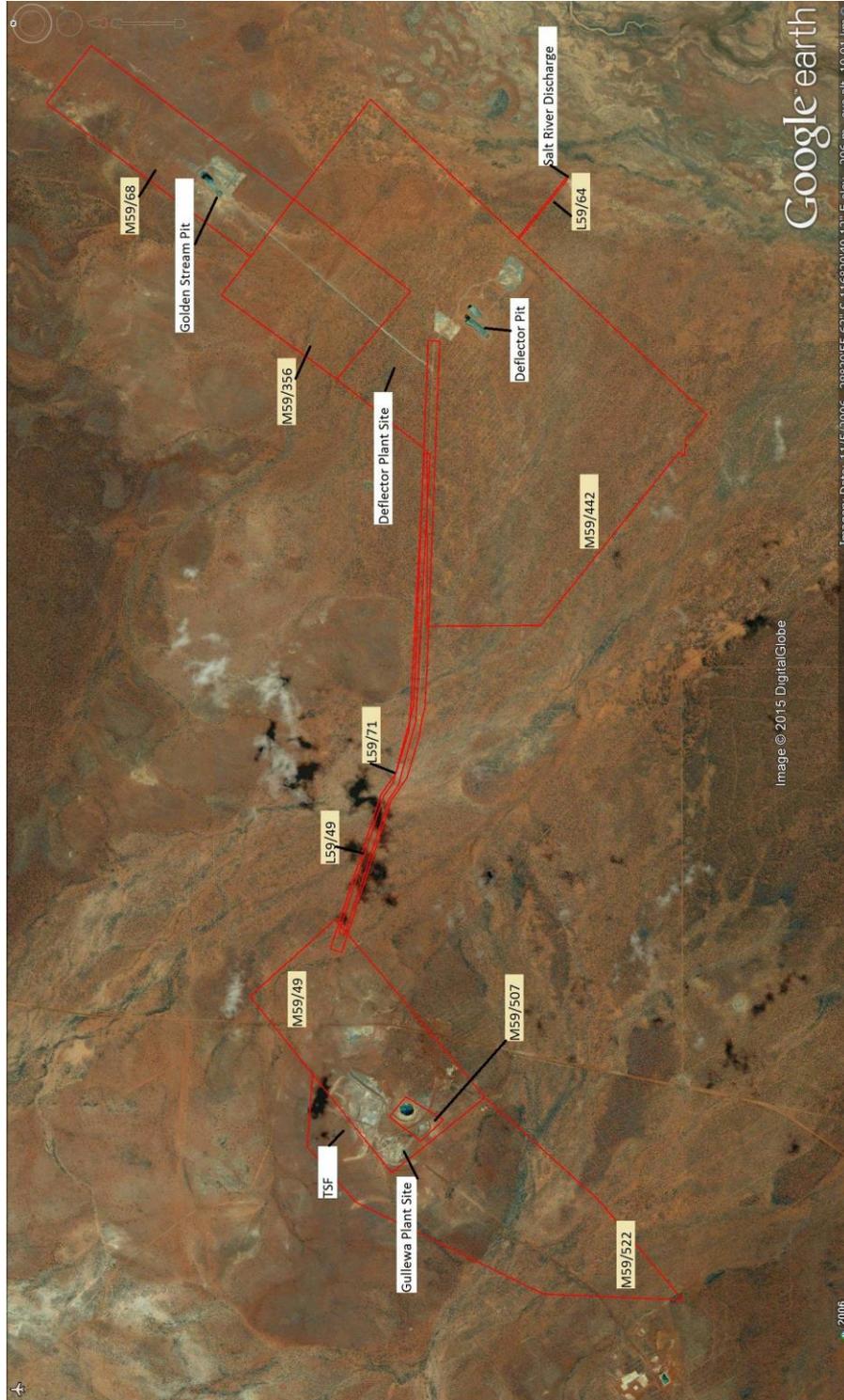
Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

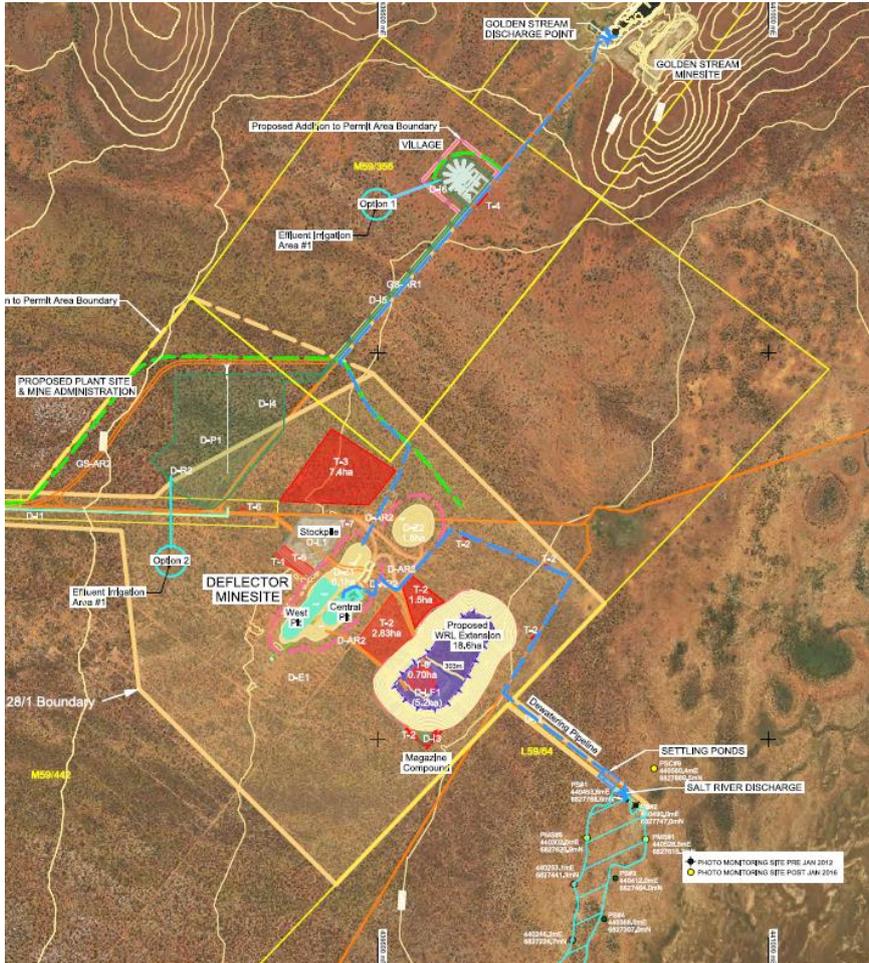
The Premises is shown in the map below. The red line depicts the Premises boundary.





Map of emission and monitoring points

The locations of the dewatering discharge and monitoring points defined in Table 3.2.1 are shown below.





The locations of the groundwater quality monitoring points defined in Table 3.4.1 are shown below.



The locations of the vegetation quality monitoring points defined in Table 3.4.2 are shown below.





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 C

SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) must 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: _____

SIGNATURE: _____

NAME:
(printed) _____

NAME:
(printed) _____

POSITION: _____

POSITION: _____

DATE: ____/____/____

DATE: ____/____/____

SEAL (if signing under seal)



Licence: L7798/1993/6
 Form: N1

Licensee: Deflector Mining Ltd
 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 Deflector Mining Ltd	
Date	



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
	05	300,000 tpa
	06	300,000 tpa
Application verified	Date: NA	
Application fee paid	Date: NA	
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 checked="" type="checkbox"/>
Is the Premises within an Environmental Protection Policy (EPP) Area	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

3 Executive summary of proposal and assessment

Deflector Mining Ltd (the Licensee) currently operates the Gullewa Gold/Copper Operations Project (the Project) for Category 5 and 6 activities within Schedule 1 of the *Environmental Protection Regulations 1987*. The Project is located 370 kilometres (km) north of Perth in the Yalgoo Mineral Field of the South Murchison District of Western Australia. The Project includes two operation areas: (1) the Gullewa Plant and (2) the Deflector Minesite. The Gullewa Plant and 45-person accommodation village is located on M59/49, 55 km south west of the town of Yalgoo in the Shire of Yalgoo. The Deflector Minesite is 7 km east of the Gullewa Plant on M59/442.

The nearest potential sensitive receptor is the abandoned Barnong Station homestead approximately 3 km from the Gullewa Plant, followed by the Yalgoo townsite. The closest water body is the ephemeral Salt River drainage system approximately 2 km east of the Deflector Minesite. There are no recreational areas known in the region.

The depth to groundwater across the Premises is 20 metres below ground level (mbgl) and groundwaters in the region are hypersaline with salinity downstream of the Deflector Minesite recorded as high as 200,000 milligrams per litre (mg/L).

The Licence in the results of an amendment sought by the Licensee to include the Golden Stream Pit on tenement M59/68 as a dewatering discharge point for dewatering operations from the Deflector Pit. The Licensee is currently using and will continue to use some of the water from the Deflector Pit for dust suppression. However, in the short term the Deflector Pit is required to be dewatered to commence grade control drilling during the construction of the processing plant. Given the high salinity content of the water in the Deflector Pit (hypersaline), processing operations cannot utilise this water. As such, as per L7798/1993/6 the Licensee is required to discharge the remaining volume of water via a settling pond and out of the dewatering discharge point at Salt River.

As a result of this amendment, dewater will also be discharged to the Golden Stream Pit, which is at present a pit lake containing infiltrated groundwater. The primary geology is basalt and water level is at 275 metres relative level (mRL). Groundwater in the pit is also hypersaline and has an equivalent chemistry to water from Deflector Pit (Table 1). If required, i.e. prior to the capacity of the Golden Stream Pit being exhausted, dewater from the pit will be pumped to the Salt River discharge point. This operational change will reduce the overall volume of water that is required to be discharged into Salt River.

Table 1: Deflector Gold Mine Pit Water Quality – Field Analysis Results

Water Quality Parameter	Deflector	Golden Stream
pH	6.52	7.09
EC	56,440 µS/cm	55,274 µS/cm
TDS	~36,121 ppm	~35,375 ppm
Temp	17.7	17.3

Changes to the Licence as a part of this amendment include:

- Conversion to Licence template version 2.9;



- Inclusion of the Golden Stream Pit and discharge point;
- Amendment to Premises boundary to include tenements M59/68 and M58/356. The Licensee holds mineral titles for both these tenements;
- Removal of previous conditions A1 – A5(c), W1, W7(a) – W7(d), W9(a) – W10(d), W15 and S1(a) – S1(c);
- All other previous conditions are now covered by modern Licence conditions as per template v2.9;
- Updated premises maps; and
- Administrative changes

Where conditions have been added or removed from the existing Licence these have been justified in Section 4.



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			
Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Definitions	NA.	Various definitions have been removed where no longer relevant to the Licence, or added where necessary to account for current operations and Licence conditions.	NA.
General conditions	N/A.	<p>Previous conditions W10(a) - W10(d) were removed in accordance with Departmental reform as published on DER's website under "<i>Administrative changes implemented within the Department of Environment Regulation</i>" www.der.wa.gov.au. Condition L1.2.1 was included on the Licence to ensure appropriate management of infrastructure which has the potential to contaminate stormwaters on the Premises.</p> <p>Previous conditions A5(a) – A5(c) for the burning of waste have been removed as this is a secondary activity, which does not contribute to the nature and type of emissions from the primary activity. These conditions have been removed in accordance with the DER guidance statement <i>Licencing and works approvals process</i> (September 2015).</p> <p>Previous conditions W1, and W6(a) – W7(d) were removed in accordance with Departmental reform as published on DER's website under "<i>Administrative changes implemented within the Department of Environment Regulation</i>" www.der.wa.gov.au. . These conditions have been deleted as it is the occupier's responsibility to ensure they comply with relevant legislative requirements for waste and the storage and handling of environmentally hazardous materials. Unauthorised discharges of environmentally hazardous materials maybe subject to the provisions of the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p> <p>Solid waste conditions S1(a) - S1(c) were removed as the Licensee is not authorised under Schedule 1 of the <i>Environmental Protection Regulations 1987</i> to conduct landfilling operations on the Premises. The Licensee should seek advice from DER regarding storage or burial of waste onsite with reference to the '<i>Landfill Waste</i></p>	<p>General provisions of the <i>Environmental Protection Act 1986</i>.</p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p> <p>DER public website at: www.der.wa.gov.au.</p> <p><i>Landfill Waste Classification and Waste Definitions 1996</i>. Department of Environment Regulation.</p> <p>DER guidance statement <i>Licencing and works approvals process</i> (September 2015).</p>



DECISION TABLE			
Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p><i>Classification and Waste Definitions 1996</i>.</p> <p>These general conditions will be reassessed at the next amendment to ensure they align with DER's reform process.</p>	
Premises operation	L1.3.1	L1.3.1 has been added to the Licence to ensure the Licensee records and investigates any exceedances of a descriptive or numerical limit in this section. This condition, and condition L2.1.1, replace the requirement for previous conditions G1(a) – G1(c).	General provisions of the <i>Environmental Protection Act 1986</i> .
	L1.3.2	L1.3.2 had been added to specify processing limits for Categories 5 and 6.	<i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i> .
	L1.3.3	Previous conditions W2, W4 and W5 are now covered by L1.3.3 which specifies the requirements for containment infrastructure and management of waste onsite (i.e. tailings and slurry).	
	L1.3.4	L1.3.4 has been added to the Licence to ensure appropriate management of tailings and dewatering pipelines.	
Emissions general	L2.1.1	Descriptive limits will be set through condition 2.2.1 of the Licence and therefore condition regarding recording and investigation of exceedances of limits has been included.	NA.
Point source emissions to surface water including monitoring	NA.	The nearest surface water body is Salt River 2 km south-east of the Deflector Pit Surface water in the Salt River system is ephemeral and only occurs after significant storm event. The addition of the Golden Stream Pit as a dewatering discharge point does change the approved discharge to Salt River and thus is not expected to increase the risk to the environment.	NA.
Emissions to land including monitoring	L2.2.1, L2.2.2 and L3.2.1	Details of DER's assessment and decision making are included in Appendix A.	<p>General provisions of the <i>Environmental Protection Act 1986</i>.</p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p>



DECISION TABLE			
Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Fugitive emissions	NA.	Given the siting of the Premises (>2 km from the nearest sensitive receptor being Salt River) and excess of water onsite (dewatering water), the risk of fugitive dust emissions is low. Consequently, previous conditions A1 – A4 were removed in accordance with Departmental reform as published on DER’s website under “ <i>Administrative changes implemented within the Department of Environment Regulation</i> ” www.der.wa.gov.au . Dust emissions can be sufficiently regulated under section 49 of the <i>Environmental Protection Act 1986</i> .	General provisions of the <i>Environmental Protection Act 1986</i> . <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i> . DER public website at: www.der.wa.gov.au
Monitoring general	L3.1.1 – L3.1.4	Previous conditions W17(a) and W17(b) are now covered by condition L3.1.1. L3.1.2, L3.1.3 and L3.1.4 have been added to the Licence to provide definitions for monitoring frequency and to ensure monitoring equipment are appropriately calibrated.	General provisions of the <i>Environmental Protection Act 1986</i> .
Process monitoring	L3.3.1 and L4.3.1	Previous conditions W3(a) – W3(c) relating to inspections of the TSF, and W12(a) - W12(b) relating to inspections of the dewatering pipeline, are now covered by condition L3.3.1. A requirement to report any failures in relations to the TSF or dewatering infrastructure has been added as a notification requirement in condition L4.3.1.	General provisions of the <i>Environmental Protection Act 1986</i> .
Ambient quality monitoring	L3.4.1 and L4.3.1	<p>Previous conditions W8 relating to ambient groundwater monitoring in the vicinity of the TSF is now covered by condition L3.4.1.</p> <p>Previous conditions W9(a) and W9(b) relating to groundwater quality criteria were removed in accordance with Departmental reform as published on DER’s website under “<i>Administrative changes implemented within the Department of Environment Regulation</i>” www.der.wa.gov.au. The Licensee will still be required to compare the groundwater monitoring results to the appropriate ANZECC 2000 water quality values in the Annual Environmental Report, including a comparison against previous years monitoring data.</p> <p>Previous condition W16 relating to the management of mine dewatering discharges on vegetation is now covered by condition L3.4.1. A requirement to report discernible vegetation impacts as a result of dewatering discharge and proposed remedial actions has been include as a notification requirement in condition L4.3.1.</p>	General provisions of the <i>Environmental Protection Act 1986</i> . DER public website at: www.der.wa.gov.au



DECISION TABLE			
Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Information	L4.1.1 – L4.1.4, L4.2.1 – 4.2.3 and 4.3.1.	<p>Previous conditions G1 – G4 are now covered under conditions L4.1.3, L4.1.4 and Table 4.2.1.</p> <p>A requirement has been added to condition L4.3.1, Table 4.3.1, requiring the Licensee to notify the CEO of any (i) TSF pipeline failures, (ii) dewatering pipeline failures or (iii) identified detrimental vegetation impacts.</p> <p>A requirement has been added to notify DER of a breach of any limit specified in conditions L1.3.2 and L2.2.1.</p>	NA.

5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
15/01/2016	Proponent sent a copy of draft instrument	Nil comments. Waiver form received 19/01/2016 (A1036324).	NA.



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



Appendix A

Emissions to land including monitoring

Emission Description

Emission: Hyper saline dewatering water discharged to the Settlement Pond, Golden Stream Pit and Salt River.

Impact: Contamination of surrounding land and surface water with elevated nutrients and total suspended solids, potential resulting in eutrophication and impacts to local ecology.

Controls: The Licensee will implement a dewatering system with options for reuse or disposal of water as follows:

1. Reuse onsite for processing and dust suppression; and
2. Surplus water will be sent to the Settlement Pond or Golden Stream Pit then to the discharge location at Salt River.

Dewatering water quality at both Golden Stream Pit and the existing Settlement Pond is monitored quarterly and compared against appropriate ANZECC 2000 water quality trigger values and previous years' monitoring data. The exception being elevated levels of total dissolved solids given the hypersaline groundwaters in the region.

The dewatering pipeline is visually inspected daily to monitor pipeline integrity, bunds and identify leaks or environmental issues. Vegetation health at the Salt River discharge point is also monitoring so as to identify any decline in vegetation health.

Risk Assessment

Consequence: Moderate

Likelihood: Unlikely

Risk Rating: Moderate

Regulatory Controls

The design capacity for Category 6 will not change as a result of this amendment, nor with the volume of water discharge to Salt River.

Conditions L2.2.1 – L2.2.3 have been included on the Licence to specify the dewatering discharge points and management of these locations to minimise potential environmental risk.

Previous conditions W13(a) – W14(b) relating to dewatering water quality monitoring are now covered by condition L3.2.1.

Previous conditions W15 relating to dewatering water quality criteria was removed in accordance with Departmental reform as published on DER's website under "*Administrative changes implemented within the Department of Environment Regulation*" www.der.wa.gov.au. The Licensee will still be required to compare the dewatering water monitoring results to the appropriate ANZECC 2000 water quality values in the Annual Environmental Report, including a comparison against previous years monitoring data.

Residual Risk

Consequence: Minor

Likelihood: Rare

Risk Rating: Low