



Mr Simon Jessop
Resident Manager
Evolution Mining (Mungari) Pty Limited
PO Box 10398
KALGOORLIE WA 6433

Dear Mr Jessop

ENVIRONMENTAL PROTECTION ACT 1986 – AMENDMENT TO LICENCE

Licence: L7750/2001/9
Premises: Mungari Gold Project

Further to my letter dated 7 January 2016, please find enclosed your amended *Environmental Protection Act 1986* licence.

If you have any questions or objections relating to the licence, please do not hesitate to contact the enquiries officer above on (08) 9080 5543 for clarification or discussion of any grievances you have.

If you are concerned about, or object to any aspect of the amendment, you may lodge an appeal with the Minister for the Environment within 21 days from the date on which this licence is received. The Office of the Appeals Convenor can be contacted on 6467 5190 to find out the procedure and fee.

Members of the public may also appeal the amendments. The Appeals Registrar at the Office of the Appeals Convenor can be contacted after the closing date of appeals to check whether any appeals were received.

Yours sincerely

Tim Gentle
Officer delegated under Section 20
of the *Environmental Protection Act 1986*

28 January 2016



Licence

Environmental Protection Act 1986, Part V

Licensee: Evolution Mining (Mungari) Pty Ltd

Licence: L7750/2001/9

Registered office: Level 30
175 Liverpool Street
SYDNEY NSW 2000

ACN: 002 124 745

Premises address: Mungari Gold Project
COOLGARDIE WA 6429
Being mining tenements M15/829, M15/830, M15/1741, M15/1408,
M15/1287, M15/688, L15/228, L15/246, L15/227 and M15/1407.
As depicted in Schedule 1

Issue date: Thursday 31 March 2011

Commencement date: Thursday 7 April 2011

Expiry date: 14 March 2020

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
05	Processing and beneficiation of metallic or non-metallic ore.	50 000 tonnes or more per year	2,000,000 tonnes per annual period
06	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	5,000,000 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 Definition 1996" 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	2000 tonnes per year

Conditions

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

Tim Gentle

Manager – Industry Regulation (Resources Industries)
Officer delegated under section 20



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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 works with the business owners, community, consultants, industry and other representatives 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

Evolution Mining (Mungari) Pty Ltd (Evolution) operates the Mungari Gold Project and the Frog's Leg Project, located approximately 20 km north east of Coolgardie. The Frog's Leg Project, has until recently, been a separate prescribed premises to Mungari Gold Project with a separate licence (L7887/2003/6). The premises is now one and covers tenements M15/829, M15/830, M15/1741, M15/1408, M15/1287, M15/688, L15/228, L15/246, L15/227 and M15/1407. The whole premise is now called the Mungari Gold Project.

A new processing plant and tailings storage facility (TSF) were constructed in 2014 under works approvals W5353/2013/1 and W5464/2013/1. A total of eight staged embankment lifts has been proposed for the life of the TSF.

The Mungari Mill is a 2,000,000 tonne capacity processing plant. The TSF is a two-cell paddock style facility which will accept tailings from the Mungari Mill at the Mungari Gold Project. The initial storage capacity is 1.2 million tonnes with a total design capacity of 10 million tonnes.

Other prescribed activities at the Mungari Gold Project include the dewatering of 2,500,000 kL from White Foil Pit to Pope John Pit and transfer dam via a 450 mm pipeline. Both the transfer dam and Pope John Pit are located on the Kundana Gold Mine owned by Northern Star. An agreement between Northern Star and Evolution clarifies the responsibility and management of the adjoining pipeline route. Management and responsibility for the pipeline resides with Evolution and is covered by this licence. However, management of the discharge point at the transfer dam and Pope John Pit is managed by Northern Star, and is captured on the Kundana Gold Licence. The pipeline design and construction capacity is 5,000,000 kL per annum, therefore this amount has been captured in the Prescribed Premises Table.

The two category 89 landfills, are located within the Frog's Leg and White Foil waste dumps. They are each managed by their own separate landfill procedures and are also supported by an overarching Waste Management Procedure. The landfills are inspected and covered weekly. The following items are disposed of in the landfills:

- Office wastes including cardboard;
- Inert building rubbish (including concrete);
- Clean fill from building or associated excavations;
- Timber – including pallets; and
- Plastic wrapping.

The proponent has requested this amendment to extend the date of completion for IR1 to 31 March 2016. It is also to change the proponent name from La Mancha Resources Australia Pty Ltd to Evolution Mining (Mungari) Pty Ltd after a recent takeover. This is not a transfer of



company, the ACN remains as 002 124 745. The licence version has been updated to 2.9, which is the most recent DER version.

This amendment also includes the assessment of reclaiming and storing tailings from the Mungari TSF for use in the Frog's Leg paste plant and construction of associated infrastructure. Tailings will be reclaimed on a six monthly basis from each cell and dried and deposited on a 3.7 ha tailings storage pad created adjacent to the existing TSF within the approved clearing footprint under Clearing Permit CPS 5409/1. Road trains will then haul the tailings to the paste plant using existing haul roads.

The licences and works approvals issued for the Premises since 01/04/2011 are:

Instrument log		
Instrument	Issued	Description
W5353/2013/1	21 February 2013	New application
L7750/2001/9	1 April 2011	Licence re-issue
W5464/2013/1	2 September 2013	Works approval for new TSF
L7750/2001/9	17 July 2014	Licence amended to include category 5 and conditions relevant to the operation of the Frog's Legs project (concurrent revocation of L7877/2003/6)
L7750/2001/9	16 April 2015	DER initiated amendment to include improvement requirements for oily/water separator waste water.
L7750/2001/9	NA	Proponent initiated amendment to extend due date for improvement requirement to 31 March 2016. Not issued – see row below.
L7750/2001/9	28/01/2016	Further proponent initiated amendment to include the reclaiming and storing tailings from the Mungari TSF for use in the Frog's Leg paste plant and construction of associated infrastructure.

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

'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

'controlled waste' has the definition in *Environmental Protection (Controlled Waste) Regulations 2004*;

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

'fugitive emissions' means all emissions not arising from point sources identified in sections 2.2, 2.3, 2.4 and 2.5;

'Licence' means this Licence numbered L7750/2001/1 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;

'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 April to 30 September and 1 October to 31 March in the following year;

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

'TRH' means Total Recoverable Hydrocarbons';

'TSF' means Tailings Storage Facility';
and

'usual working day' means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia.

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.

1.2 Premises operation

1.2.1 The Licensee shall ensure that all pipelines containing tailings, decant recovery, process water or mine dewater 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.

1.2.2 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 to previously mined pits in accordance with Section 2 of this Licence; in a manner that avoids damage to surrounding vegetation.

1.2.3 The Licensee shall ensure that tailings are only discharged into containment cells with the relevant infrastructure requirements and at the locations specified in Table 1.2.1

Table 1.2.1: Containment infrastructure			
Containment point reference	Containment cell or dam number(s)	Material	Infrastructure requirements
TSF	TSF cell 1 and 2	Tailings	Lined with 1mm HDPE to achieve a permeability of at least $<10^{-8}$ m/s or equivalent

1.2.4 The Licensee shall manage containment cells in Table 1.2.1 such that:

- (a) a minimum total freeboard of 500mm or a 1 in 100 year/72 hour storm event (whichever is greater) is maintained; and
- (b) methods of operation minimise the likelihood of erosion of the embankments by wave action.

1.2.5 The Licensee shall manage TSFs such that:

- (a) the supernatant pond on the TSF is minimised as far as practicable; and



- (b) a seepage collection and recovery system will be implemented should seepage occur.

1.2.6 The Licensee shall:

- (a) undertake inspections as detailed in Table 1.2.2;
(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 1.2.2: Inspection of infrastructure

Scope of inspection	Type of inspection	Frequency of inspection
Tailings pipelines	Visual integrity	Daily
Return water lines	Visual integrity	Daily
Embankment freeboard	Visual to confirm required freeboard capacity is available	Daily
Dewatering pipelines	Visual integrity	Daily

1.2.7 The Licensee shall undertake an annual water balance for the TSF. The water balance shall as a minimum consider the following:

- (a) regional rainfall;
(b) evaporation;
(c) decant water recovery volumes;
(d) seepage recovery volumes; and
(e) volumes of tailings (tonnages) deposited.

1.2.8 The Licensee shall only accept waste on to the landfill if:

- (a) it is of a type listed in Table 1.2.4;
(b) the quantity accepted is below any quantity limit listed in Table 1.2.4; and
(c) it meets any specification listed in Table 1.2.4.

Table 1.2.4: Waste acceptance

Waste type	Quantity limit tonnes/ year	Specification ¹
Clean fill	2000	None specified
Inert Waste Type 1		None specified
Putrescible Waste		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*.

1.2.9 The Licensee shall ensure that where waste does not comply with condition 1.2.9 it is removed from the premises by the delivery vehicle or, where that is not possible, the Licensee shall contact the CEO to agree a course of action in relation to the waste.

1.2.10 The Licensee shall ensure that wastes accepted onto the landfill are only subjected to the process set out in Table 1.2.5 and in accordance with any process limits described in that table.

Table 1.2.5: Waste processing

Waste type	Process(es)	Process limits ^{1, 2}
Putrescible waste	Receipt, handling and disposal of waste by landfilling	All waste types
Inert waste Type 1		Disposal of waste by landfilling shall only take place within the landfill areas shown on the Maps in Schedule 1 (L2 and L3). The separation distance between the base of the landfill and the highest groundwater level shall not be less than 2m.



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*.

- 1.2.11 The Licensee shall manage the landfilling activities to ensure:
- (a) waste is levelled and compacted once a week;
 - (b) waste is placed and compacted to ensure all faces are stable and capable of retaining restoration material; and
 - (c) restoration of a cell or phase takes place in conjunction with rehabilitation of the waste rock dump.

- 1.2.12 The Licensee shall ensure that cover is applied and maintained on landfilled wastes in accordance with Table 1.2.6 and that sufficient stockpiles of cover are maintained on site at all times.

Table 1.2.6: Cover requirements ¹			
Waste type	Material	Depth	Timescales
Putrescible wastes	Inert and incombustible material	Sufficient to ensure the waste is completely covered and that no waste is exposed	Cover shall be applied monthly
Inert waste Type 1	No cover required		

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

- 1.2.13 The Licensee shall:
- (a) implement security measures at the site to prevent as far as is practical unauthorised access to the site; and
 - (b) undertake regular inspections of all security measures and repair damage as soon as practicable.

- 1.2.14 The Licensee shall ensure that wind-blown waste is contained within the boundary of the premises and that wind-blown waste is returned to the tipping area on at least a weekly basis.

- 1.2.15 The Licensee shall ensure water used for dust suppression sourced from the water treated at the oily/water separator is managed in accordance with Table 1.2.7:

Table 1.2.7: Site wide dust suppression water quality				
Emission point	Parameter	Limit (including units)	Averaging Period	Frequency
Site wide dust suppression areas	TRH	30 mg/L	Spot sample	Quarterly

- 1.2.16 The Licensee must carry out the works and operations for the reclaimed tailings stockpile, in accordance with the documentation and key application commitments detailed in Table 1.2.8:

Table 1.2.8: Required Proponent Commitments ^{1,2}		
Document	Date of Document	Key Application Commitments



Table 1.2.8: Required Proponent Commitments^{1,2}

Document	Date of Document	Key Application Commitments
Mungari Gold Operation – Addendum to Mining Proposal 39715 for Tailings Haulage to Frog's Leg Paste Fill Plant – Evolution Mining (Mungari) Pty Ltd.	November 2015	<ul style="list-style-type: none">• New tailings storage pad to be established within the existing cleared area to the immediate south of the White Foil TSF.• The 3.3.ha tailings storage pad will be 319m long by 93-112m wide.• A maximum of up to 240 000 tonnes of tailings will be stored on the tailings storage pad with a maximum height of 5m.• The 6ML pond will measure 19m by 199m.• The pond will be installed to 2.5m depth below the current ground level and will be provided with 300 mm freeboard.• A perimeter bund will be installed approximately 7m outside the tailings storage pad and be constructed from oxide material sourced from excavation of the associated pond.

Note 1: Where the details and commitments of the documents listed in condition 1.2.16 are inconsistent with any other condition of this works approval, the conditions of this works approval shall prevail.

Note 2: Commitments that align with conditions of the operating Licence L7750/2001/9 have not been included in this table and Evolution must continue to comply with Licence L7750/2001/9.

2 Emissions

2.1 General

2.2 Point source emissions to groundwater

- 2.2.1 The Licensee shall ensure that where waste is emitted to groundwater from the emission points in Table 2.4.1 [and identified on the map of emission points in Schedule 1] it is done so in accordance with the conditions of this Licence.

Table 2.4.1: Point source emission to groundwater

Emission point reference	Description	Source including abatement
L1 - White Foil Pit	Receiving environment – previously mined pit	Water from dewatering of Frog's Leg 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 groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
- (c) 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) monthly monitoring is undertaken at least 15 days apart; and
- (b) quarterly monitoring is undertaken at least 45 days apart.



3.2 Monitoring of point source emissions to groundwater

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 groundwater			
Emission point reference	Parameter	Units	Frequency
White Foil Pit	Standing Water Level	mbgl	Monthly
	pH		Monthly
	TDS		Monthly
	Carbonate (CO ₃), arsenic (As), aluminium (Al), calcium (Ca), cadmium (Cd), chloride (Cl), cobalt (Co), chromium (Cr), copper (Cu), iron (Fe), potassium (K), magnesium (Mg), manganese (Mn), sodium (Na), nickel (Ni), lead (Pb), selenium (Se), sulphate (SO ₄) and zinc (Zn)	mg/L	Quarterly

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	Parameter	Units	Frequency ¹	Method
White Foil Pit (L1) and Mungari Raw Water Dam (L4)	Cumulative monthly volumes of dewatering water from Frog's Leg Pit to White Foil Pit/Mungari Raw Water Dam and from White Foil Pit to Pope John Pit	Volume of dewatering water	kL	Monthly	None specified
TSF	-	Volumes of tailings deposited into the TSF	tonnes	Continuous	None specified
TSF	-	Volumes of water recovered from the TSF	tonnes	Continuous	None specified
Oily/water separator	Water from oily/water separator to be used for site wide dust suppression	TRH	mg/L	Quarterly	Spot sample

3.4 Ambient environmental quality monitoring

3.4.1 The Licensee shall undertake the monitoring in Table 3.4.1 according to the specifications in and record and investigate results that do not meet any target specified.

Table 3.4.1: Monitoring of ambient groundwater quality				
Monitoring point reference	Parameter	Limit	Averaging period	Frequency
MB1 – MB5	Standing water level (SWL)	4mbgl	Spot sample	Monthly
	pH ¹	-		Monthly



	Total dissolved solids (TDS) ¹	mg/L		Monthly
	Electrical conductivity (EC)	-		Monthly
	WAD CN	0.5mg/L		Quarterly
	Total CN	-		Quarterly
	Ca, Mg, Na, K, CO ₃ , Cl, SO ₄ , Al, As, Cd, Cr, Cu, Fe, Mn, Ni, Zn, Pb, Co	mg/L		Annually

Note 1: pH and TDS are permitted to be measured in the field in accordance with Australian Standard 5667.

3.5 Meteorological monitoring

There are no specified conditions relating to meteorological monitoring in this section.

4 Improvements

4.1.1 The Licensee shall complete the improvements in Table 4.1.1 by the date of completion in Table 4.1.1.

4.1.2 The Licensee, for improvements not specifically requiring a written submission, shall write to the CEO stating whether and how the Licensee is compliant with the improvement within one week of the completion date specified in Table 4.1.1.

Table 4.1.1: Improvement program		
Improvement reference	Improvement	Date of completion
IR1	The Licensee shall develop, submit and implement a plan to upgrade the washdown bay system at Frog's Leg site, to ensure water used for dust suppression from the separator meets the licence limit of <30 mg/L TRH when used for dust suppression outside areas shown in Schedule 1.	31/03/2016

5 Information

5.1 Records

5.1.1 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 5.1.1(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.

5.1.2 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.



5.1.3 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.

5.1.4 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.

5.2 Reporting

5.2.1 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 5.2.1 in the format or form specified in that table.

Table 5.2.1: Annual environmental report

Condition or table (if relevant)	Parameter	Format or form ¹
-	Summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the year and any action taken	None specified
5.1.3	Compliance	AACR
5.1.4	Complaints summary	None specified
Table 3.2.1	Monitoring of point source emissions to groundwater	None specified
Table 3.3.1	Process monitoring	None specified
Table 3.4.1	Ambient groundwater monitoring	None specified

Note 1: Forms are in Schedule 2

5.2.2 The Licensee shall ensure that the Annual Environmental Report also contains:

- any relevant process, production or operational data; and
- an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets.

5.2.3 The Licensee shall submit the information in Table 5.2.2 to the CEO according to the specifications in that table.

Table 5.2.2: Non-annual reporting requirements

Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form ¹
-	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

Note 1: Forms are in Schedule 2

5.3 Notification

5.3.1 The Licensee shall ensure that the parameters listed in Table 5.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 5.3.1: Notification requirements

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

5.3.2 The Licensee shall submit a compliance document to the CEO, following the construction of the works detailed in Table 1.3.8 and prior to commissioning of the same.

5.3.3 The compliance document shall:

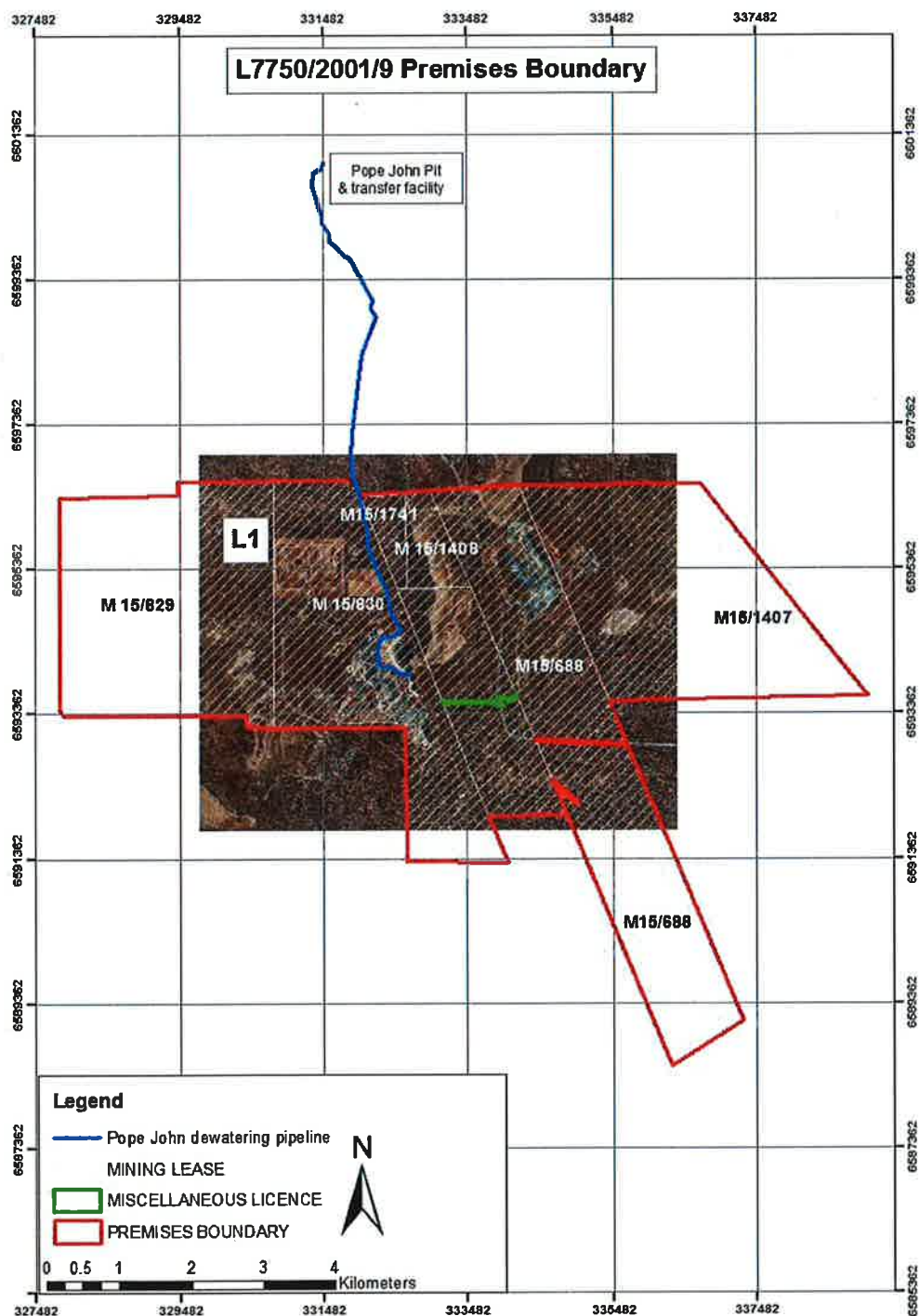
- (a) certify that the works were constructed in accordance with the conditions of the Licence; and
- (b) be signed by a person authorised to represent the Licencee and contain the printed name and position of that person within the company.



Schedule 1: Maps

Premises map

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





Map of emission points

The locations of the emission points defined in Tables 1.3.5 are shown below.







Map of monitoring locations

The locations of the monitoring points defined in Table 3.7.1 are shown below.





Maps of dust suppression areas in accordance with condition 1.3.17:





L7750/2001/9 - Dust suppression discharge areas for TRH limit exceedance at Frog's Leg





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:	ABN:
Trading as:	
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) 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: _____

NAME:
(printed) _____

POSITION: _____

DATE: ____/____/____

SEAL (if signing under seal)

SIGNATURE: _____

NAME:
(printed) _____

POSITION: _____

DATE: ____/____/____



Licence: L7750/2001/9
Form: N1

Licensee: Evolution Mining (Mungari) 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 Evolution Mining (Mungari) Pty Ltd	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: **Evolution Mining (Mungari) Pty Ltd**

Licence: **L7750/2001/9**

Registered office: Level 30
 175 Liverpool Street
 SYDNEY NSW 2000

ACN: 002 124 745

Premises address: Mungari Gold Project
 COOLGARDIE WA 6429
 Being mining tenements M15/829, M15/830, M15/1741, M15/1408,
 M15/1287, M15/688, L15/228, L15/246, L15/227 and M15/1407.

Issue date: Thursday 31 March 2011

Commencement date: Thursday 7 April 2011

Expiry date: 14 March 2020

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: Tim Gentle
 Delegated Officer



Contents

1	Purpose of this Document	2
2	Administrative summary	2
3	Executive summary of proposal and assessment	3
4	Decision table	5
5	Advertisement and consultation table	8
6	Risk Assessment	9

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	<div>Works Approval <input type="checkbox"/></div> <div>New Licence <input type="checkbox"/></div> <div>Licence amendment <input checked="" type="checkbox"/></div> <div>Works Approval amendment <input type="checkbox"/></div>								
Activities that cause the premises to become prescribed premises	<table border="1"> <thead> <tr> <th>Category number(s)</th> <th>Assessed design capacity</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>2,000,000 tonnes per annual period</td> </tr> <tr> <td>6</td> <td>5,000,000 tonnes per annual period</td> </tr> <tr> <td>89</td> <td>2,000 tonnes per annual period</td> </tr> </tbody> </table>	Category number(s)	Assessed design capacity	5	2,000,000 tonnes per annual period	6	5,000,000 tonnes per annual period	89	2,000 tonnes per annual period
Category number(s)	Assessed design capacity								
5	2,000,000 tonnes per annual period								
6	5,000,000 tonnes per annual period								
89	2,000 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> ?	<div>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></div> <div>Referral decision No:</div> <div>Managed under Part V <input type="checkbox"/></div> <div>Assessed under Part IV <input type="checkbox"/></div>								
Is the proposal subject to Ministerial Conditions?	<div>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></div> <div>Ministerial statement No:</div> <div>EPA Report No:</div>								



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 <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.	
Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, eg Site is subject to SO ₂ requirements of Kwinana EPP.	

3 Executive summary of proposal and assessment

Evolution Mining (Mungari) Pty Ltd (Evolution) operates the Mungari Gold Project and the Frog's Leg Project, located approximately 20 km north east of Coolgardie. The Frog's Leg project, has until recently, been a separate prescribed premises to Mungari Gold Project with a separate licence (L7887/2003/6). The premises is now one and covers tenements M15/829, M15/830, M15/1741, M15/1408, M15/1287, M15/688, L15/228, L15/246, L15/227 and M15/1407. The whole premises is now called the Mungari Gold Project.

A new processing plant and tailings storage facility (TSF) were constructed in 2014 under Works Approval W5353/2013/1 and W5464/2013/1. A total of eight staged embankment lifts have been proposed for the life of the TSF.

The Mungari Mill is a 1,500,000 tonne capacity processing plant. The TSF is a two-cell paddock style facility which will accept tailings from the Mungari processing plant at the Mungari Gold Project. The initial storage capacity is 1.2 million tonnes.

Other prescribed activities at the Mungari Gold Project include the dewatering of 2,500,000 kL from White Foil Pit to Pope John Pit and transfer dam via a 450 mm pipeline. Both the transfer dam and Pope John Pit are located on the Kundana Gold Mine. An agreement between the owners of Kundana Gold Mine and Evolution clarifies the responsibility and management of the adjoining pipeline route. Management and responsibility for the pipeline resides with Evolution and is covered by this licence. However, management of the discharge point at the transfer dam and Pope John Pit is managed by Kundana Gold Mine and captured on that Licence. Therefore monitoring conditions for the discharge point of Pope John Pit will not be included this licence. The pipeline design and construction capacity is 5 000 000 kL per annum, therefore this amount has been captured in the Prescribed Premises Table.

The two category 89 landfills are located within the Frog's Leg and White Foil waste dumps. Each are managed by separate landfill procedures and are also supported by an overarching Waste Management Procedure. The landfills are inspected and covered weekly. The following items are disposed of in the landfills:

- Office wastes including cardboard;
- Inert building rubbish (including concrete);
- Clean fill from building or associated excavations;
- Timber – including pallets; and
- Plastic wrapping.

Evolution will comply with the *Environmental Protection (Rural Landfill) Regulations 2002*.



Government of Western Australia
Department of Environment Regulation

The proponent has requested this amendment to extend the date of completion for IR1 to 31 March 2016. The following partial decision document provides explanations to any changes to the licence. It is also to change the proponent name from La Mancha Resources Australia Pty Ltd to Evolution Mining (Mungari) Pty Ltd after a recent takeover. This is not a transfer of company, the ACN remains as 002 124 745. The licence version has been updated to 2.9, which is the most recent DER version.

This amendment also includes the assessment of reclaiming and storing tailings from the Mungari TSF for use in the Frog's Leg paste plant and construction of associated infrastructure. Tailings will be reclaimed on a six monthly basis from each cell and dried and deposited on a 3.7 ha tailings storage pad created adjacent to the existing TSF within the approved clearing footprint under Clearing Permit CPS 5409/1. Road trains will then haul the tailings to the paste plant using existing haul roads.



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	N/A	There are no general conditions required. Previous conditions 1.2.1 – 1.2.5 are considered to be either redundant or to duplicate the requirements of the <i>Environmental Protection Act 1986</i> or another statute, and have been removed from the Licence.	General provisions of the <i>Environmental Protection Act 1986</i>
Premises operations	L1.2.16	Normal Operation <u>Emission Description</u> <i>Emission:</i> Stormwater as runoff from the tailings stockpiles contaminated with tailings constituent including metals such as arsenic, chromium, copper, lead, nickel and zinc and both free cyanide and weak acid dissociable cyanide. <i>Impact:</i> Contamination of surrounding land and surface water drainage systems. <i>Control:</i> The storage pad is going to be approximately 319m long by 93-112m wide. It will be sheeted with tailings at the surface to provide a trafficable and working layer. This layer is expected to allow rainfall to infiltrate and percolate to the more resistant, water retaining earth pad below. Water will then drain to the pond situated in the south eastern corner of the footprint via percolation as well as runoff. The 6ML pond measuring approximately 19m by 199m is capable of storing the 1:100 / 1% AEP 48hr duration storm event. The pond will be installed to 2.5m depth below the current ground level and will be provided with 300mm freeboard. Water from the pond will be pumped back to the tailings storage facility on an on needs basis. Risk Assessment	Applicant supporting document General provisions 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><i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> In accordance with the DER's Guidance Statement on Licensing and works approval process, September 2015, this activity is considered a secondary activity and therefore will not be subject to conditions. However, a construction condition (1.2.16) has still be applied to the Licence, which requires that all works are carried out in accordance with the key commitments of the supporting documentation. A compliance certificate is required to be submitted upon completion of construction of the tailings storage pad and pond.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p>	
Fugitive emissions	2.6.1 - 2.6.2	<p>The risk of dust has been reassessed as low and therefore the fugitive emissions conditions relating to dust (2.6.1 and 2.6.2) have been removed. Given the location of the site and the dust suppression management practices committed to by Evolution, no fugitive emission conditions are required for the Licence.</p> <p>Dust may be generated during the construction and operation of the tailings stockpiles. Evolution have committed to using dust suppression strategies where necessary to minimise dust. The moisture content of the tailings is expected to minimise the generation of wind-borne dust. No conditions are required for fugitive dust emissions. The substantive offenses of the <i>Environmental Protection Act 1986</i> provide enforceable prohibitions for dust emissions that result in pollution or environmental harm.</p> <p>Targets have been removed. A limit column has been added to Table 3.4.1 which</p>	<p><i>General provisions of the Environmental Protection Act 1986</i></p> <p>Applicant supporting document</p>
Ambient quality	L3.4	Targets have been removed. A limit column has been added to Table 3.4.1 which	<i>General provisions</i>



DECISION TABLE

Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
monitoring		include a limit for standing water level and weak acid dissociable (WAD) cyanide. The previous licence included a WAD CN target of 0.5mg/L. This has now been made a limit to ensure any breaches of this are reported under condition 5.3.1. The standing water level target of 6mbgl has been removed and replaced with a limit of 4mbgl. In the previous licence this was already stated in condition 1.3.8 which has now been removed to avoid duplication.	<i>of the Environmental Protection Act 1986</i>
Improvements	L4.1.1 – 4.1.2	An extension to IR1 has been granted from 30 September 2015 to 31 March 2016. A progress report was provided to DER on 29 September 2015 which explains what has been completed to date and what is still required for Evolution to meet compliance with the condition. As no environmental harm is caused by the extension of the completion date, the amendment has been granted.	Applicant supporting documentation
Licence Duration	N/A	In line with DER's Guidance Statement on Licence Duration, the expiry of the Licence has been extended from 6 April 2016 until 14 March 2020 which conforms with the expiry date of the mining tenements for the project.	DER Licence Duration Guidance Statement

5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
19/11/2015	Proponent sent a copy of draft instrument	The proponent has requested an addition to the amendment, with a proposal for a new tailings storage pad and pond for the stockpiling of reclaimed tailings from the Mugari TSF to be used in the paste fill plant.	New proposal has been assessed within the draft licence amendment. The new draft will be sent to the proponent with a 21-day letter and waiver form.
6/01/2016	Proponent sent a copy of draft instrument	Minor administrative errors noted.	Errors rectified.

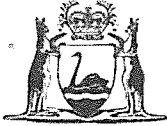


6 Risk Assessment

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



Government of Western Australia
Department of Water and Environmental Regulation

Your ref: L7750/2001/9
Our ref: 2011/009482
Enquiries: Fiona Sharpe
Phone: (08) 9726 4112
Email: info@dwer.wa.gov.au

Kara Postle
Senior Environmental Advisor
Evolution Mining (Mungari) Pty Ltd
PO Box 10398
KALGOORLIE WA 6433

RECEIVED
11 SEP 2018

Via email: kara.postle@evolutionmining.com.au

BY:

Dear Ms Postle,

APPLICATION FOR AN AMENDMENT TO LICENCE L7750/2001/9 UNDER THE ENVIRONMENTAL PROTECTION ACT 1986 – NOTICE OF DECISION TO GRANT

A draft amendment was provided to you on 8 August 2018. After considering the comments you provided on 14 August 2018, I have granted the amendment which is now attached.

In accordance with section 102(2) of the *Environmental Protection Act 1986* (EP Act), if you are aggrieved by my decision to amend the licence you have the right to lodge an appeal with the Minister for Environment in writing, setting out the grounds of that appeal, within 21 days of this notification. Should you wish to lodge an appeal, please contact the Office of the Appeals Convenor on 6567 5190 or by email at admin@appealsconvenor.wa.gov.au.

Under section 102(3)(b) of the EP Act, third parties aggrieved by this decision are also entitled to lodge an appeal against amendments to a licence. Under section 102(6), the conditions of the amended licence remain in effect pending the determination of any third party appeals.

If you have any queries regarding the above information, please contact Fiona Sharpe as listed above.

Yours sincerely

Tim Gentle
MANAGER – RESOURCE INDUSTRIES
REGULATORY SERVICES

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

04 September 2018

Att: Amendment Notice



Amendment Notice 1

Licence Number L7750/2001/9

Licence Holder Evolution Mining (Mungari) Pty Ltd

ACN 002 124 745

File Number: 2011/009482

Premises

Mungari Gold Project
COOLGARDIE WA 6429

Legal description –

Mining tenements M15/829, M15/830, M15/1741,
M15/1408, M15/1287, M15/688, L15/228, L15/246,
L15/227 and M15/1407

Date of Amendment 04/09/2018

Amendment

The Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) has amended the above Licence in accordance with section 59 of the *Environmental Protection Act 1986* (EP Act) as set out in this Amendment Notice. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B(9) of the EP Act.

Tim Gentle

Manager – Resource Industries

an officer delegated under section 20 of the *Environmental Protection Act 1986* (W

Definitions and interpretation

Definitions

In this Amendment Notice, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
AACR	Annual Audit Compliance Report
ACN	Australian Company Number
AER	Annual Environment Report
Amendment Notice	refers to this document
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act 1986</i> Locked Bag 33 Cloisters Square PERTH WA 6850 info@dwer.wa.gov.au
Delegated Officer	an officer under section 20 of the EP Act
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.
DWER	Department of Water and Environmental Regulation
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
Existing Licence	The Licence issued under Part V, Division 3 of the EP Act and in force prior to the commencement of and during this Review
Licence Holder	Evolution Mining (Mungari) Pty Ltd

Minister	the Minister responsible for the EP Act and associated regulations
Occupier	has the same meaning given to that term under the EP Act.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Decision Report applies, as specified at the front of this Decision Report.
Risk Event	as described in <i>Guidance Statement: Risk Assessment</i>
UDR	<i>Environmental Protection (Unauthorised Discharges) Regulations 2004 (WA)</i>

Amendment Notice

This amendment is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the Licence issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B(9) of the EP Act.

This notice is limited only to an amendment for Category 5.

The following guidance statements have informed the decision made on this amendment:

- *Guidance Statement: Regulatory Principles (July 2015)*
- *Guidance Statement: Setting Conditions (October 2015)*
- *Guidance Statement: Decision Making (February 2017)*
- *Guidance Statement: Risk Assessment (February 2017)*
- *Guidance Statement: Environmental Siting (November 2016)*

Amendment description

This amendment is a DWER initiated amendment to risk assess the identified seepage which has been occurring with their active tailing storage facility (TSF).

The TSF was constructed in 2013 under Works Approval W5464/2013/1. The Works Approval allowed for a two-cell paddock style facility to accept tailings from the Mungari Gold Processing Plant. The Works Approval included eight stages of lifts for the facility within the initial seven years of life. It expires in September 2018.

Issues with high groundwater levels have recently been identified at the north and west toe of the TSF. Evolution have submitted 22 N1 notifications regarding MB01 and MB05 breaches for standing water level over the past reporting period. They have since submitted a further 4 in 2018. DWER carried out a compliance inspection on 10 April 2018. The inspection highlighted the seepage issues at the site and the need for better management of the facility.

Evolution engaged Knight Piesold in 2018 to assist with identifying the TSF issues and to provide technical advice as to how to effectively and efficiently manage the seepage. As part of their suggested management, construction of a seepage trench was recommended to be considered by the Licence Holder. This has been communicated with DWER.

Evolution have submitted a Mining Proposal (Reg. ID 75027) to include a trench on the north toe of Cell 2 which was approved on 18 July 2018. The trench will include a soak well and captured water will be sent back to the TSF cell and will be completed within two months of receiving the approved Amendment Notice.

Other approvals

The Licence Holder has provided the following information relating to other approvals as outlined in Table 2.

Table 2: Relevant approvals

Legislation	Number	Approval
<i>Mining Act 1978</i>	MP Reg ID: 75027	Mining Proposal to allow construction of the TSF intercept trench approved on 18 July 2018.

Amendment history

Table 3 provides the amendment history for L7750/2001/9.

Table 3: Licence amendments

Instrument	Issued	Amendment
L7750/2001/9	1 April 2011	Licence re-issue
L7750/2001/9	17 July 2014	Licence amended to include category 5 and conditions relevant to the operation of the Frog's Legs project (concurrent revocation of L7877/2003/6)
L7750/2001/9	16 April 2015	DER initiated amendment to include improvement requirements for oily/water separator waste water
L7750/2001/9	N/A	Proponent initiated amendment to extend due date for improvement requirement to 31 March 2016. Not issued – see row below
L7750/2001/9	28/01/2016	Further proponent initiated amendment to include the reclaiming and storing tailings from the Mungari TSF for use in the Frog's Leg paste plant and construction of associated infrastructure.
L7750/2001/9	04/09/2018	DWER initiated amendment to allow construction of TSF intercept trench

Location and receptors

Table 4 below lists the relevant sensitive land uses in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 4: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from Prescribed Premises
Town of Kalgoorlie-Boulder	20 km to the east

Table 5 below lists the relevant environmental receptors in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 5: Environmental receptors and distance from activity boundary

Environmental receptors	Distance from Prescribed Premises
White Flag Lake	12 km from the Premises
Lake Kopai and Lake Kurrawang (salt pans)	1.2 km from the Premises
Groundwater	12-19 mbgl
Four primary vegetation communities within the TSF vicinity: <ul style="list-style-type: none"> •Mixed <i>Eucalyptus</i> Woodland •<i>Eucalyptus gracilis</i> Woodland •Samphire Vegetation •<i>Casuarina</i> Woodland No Priority Flora or Declared Rare Flora was identified	Identified on tenement M15/830

Risk assessment

Table 6 below describe the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. This table identify whether the emissions present a

material risk to public health or the environment, requiring regulatory controls.

Table 6: Risk assessment for proposed amendments during operation

Risk Event						Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts					
Cat 5 Processing or beneficiation of metallic or non- metallic ore	Seepage: Standing water levels within bores MB01 and MB05 are currently being breached, with levels being recorded higher than 4 metres below ground level (mbgl). Seepage water contains low concentrations of cyanide and metals such as arsenic and lead.	Groundwater. Groundwater in the area is naturally located between 12-19 mbgl and is hypersaline.	Leachate	Reduction in groundwater quality	Moderate	Possible	Medium	Upon assessment of the seepage from the TSF, it has been determined as a medium risk and as such, the Delegated Officer will impose a Licence condition for the License Holder to immediately construct a seepage interception trench in order to capture and recover the water and to provide embankment stability. Note – installation of a seepage trench has been approved by DMIRS as part of improved TSF water management for embankment stability.	

Decision

The Delegated Officer has determined the risk of current seepage of the TSF is rated as **medium**, as there is a possibility surrounding groundwater and vegetation would be impacted on a mid-level. As such, DWER will condition the Licence Holder to construct a seepage interception trench, as approved by Department of Mines, Industry Regulation and Safety.

Licence Holder controls for the construction of the intercept trench are conditioned on the Licence to ensure that as-built diagrams are provided to DWER upon completion of construction.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 8 August 2018. Comments received from the Licence Holder have been considered by the Delegated Officer as shown in Appendix 2.

Amendment

1. The Licence is amended by the insertion of the following Condition 1.2.17:

The Licence Holder must construct and operate a seepage interception trench to collect seepage recovery from TSF Cell 2. As built-diagrams must be submitted to DWER upon completion of the trench. Construction of the trench is to be completed within two months from receipt of the approved Amendment Notice.

Appendix 1: Key documents

	Document title	In text ref	Availability
1	Works Approval W5464/2013/1 – Mungari Gold Project	W5464/2013/1	accessed at www.dwer.wa.gov.au
2	Mining Proposal Registration ID: 75027 – Evolution Mungari TSF Intercept Trench Mining Proposal Rev A On M15/830	MP Reg ID 75027	DWER records (A1705727)
3	DER, July 2015. <i>Guidance Statement: Regulatory principles</i> . Department of Environment Regulation, Perth.	N/A	accessed at www.dwer.wa.gov.au
4	DER, October 2015. <i>Guidance Statement: Setting conditions</i> . Department of Environment Regulation, Perth.	N/A	
5	DER, November 2016. <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.	N/A	
6	DER, November 2016. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.	N/A	

Appendix 2: Summary of Licence Holder comments

The Licence Holder was provided with the draft Amendment Notice on 8 August 2018 for review and comment. The Licence Holder responded on 14 August 2018. The following comments were received on the draft Amendment Notice.

Condition	Summary of Licence Holder comment	DWER response
1.2.17	Licence Holder requested construction of the trench to be completed within two months of receipt of the amended licence rather than the specified date of 20 September 2018.	Approved
Table 6	<ul style="list-style-type: none">Confirmed there are no groundwater dependent ecosystems and that groundwater is hypersaline.Stated primary reason for the trench is for TSF embankment stability	Noted