



## Application for Licence Amendment

### Part V Division 3 of the *Environmental Protection Act 1986*

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<b>Licence Number</b>	L8859/2014/1
<b>Licence Holder</b>	Mineral Resource Limited
<b>ACN</b>	118 549 910
<b>File Number</b>	DER2014/001998-1
<b>Premises</b>	Iron Valley Iron Ore Project Mining tenement M47/1439 and Miscellaneous Licence L47/757 NEWMAN WA 6753
<b>Date of Report</b>	9 December 2021
<b>Decision</b>	Revised licence granted

**Lauren Edmands**  
**Manager, Resource Industries**  
**REGULATORY SERVICES**

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

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## 1. Decision summary

Licence L8859/2014/1 is held by Mineral Resources Limited (Licence Holder) for the Iron Valley Iron Ore Project (the Premises), located at Mining Tenement M47/1439 and Miscellaneous Licence L47/757 in Newman WA.

This Amendment Report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges during the operation of the Premises. As a result of this assessment, Revised Licence L8859/2014/1 has been granted.

The Revised Licence issued because of this amendment consolidates and supersedes the existing Licence previously granted in relation to the Premises.

## 2. Scope of assessment

### 2.1 Regulatory framework

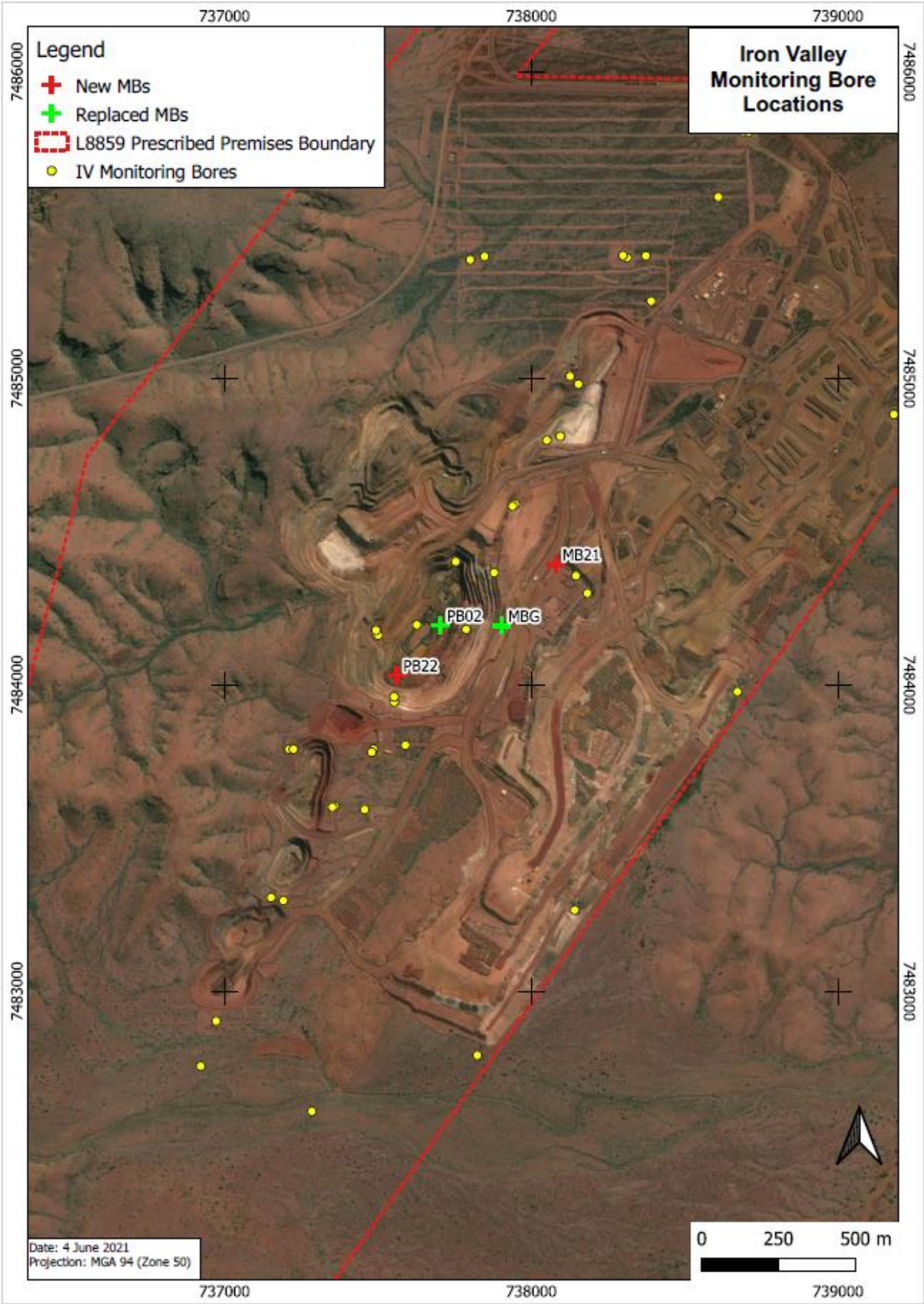
In completing the assessment documented in this Amendment Report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

### 2.2 Application summary

On 11 June 2021, the Licence Holder applied to the department to amend Licence L8859/2014/1 under section 59 and 59B of the Environmental Protection Act 1986 (EP Act). The following amendments are being sought:

- Condition 3.4.1 ambient groundwater monitoring – monitoring bores PB02 and MBG have been removed for pit development. These bores will be replaced with bores PB22 and MB21 which are reported as being in a similar location and depth (location shown in Figure 1).
- Condition 3.4.1 ambient groundwater monitoring – regarding monitoring bore MBK the parameter listed as “Chlorine” is proposed to be changed to “Chloride”.
- Condition 3.4.1 ambient groundwater monitoring – licence holder wishes to have the parameter list for bore MBK applied to all bores in Condition 3.4.1.

No changes to the aspects of the existing Licence relating to Category 5, 6 and 89 have been requested by the Licence Holder.



**Figure 1: Iron Valley Monitoring Bore Locations**

### 3. Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors, and contractors of the Licence Holder's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies and is provided for under other state legislation.

Table 1 below provides a summary of potential environmental receptors that may be impacted because of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental siting* (DWER 2020)).

**Table 1: Sensitive environmental receptors and distance from prescribed activity**

Environmental receptors	Distance from prescribed activity
Weeli Wolli Creek / Fortescue River	200 m east of the north-east corner of the premises.
Priority Ecological Community (P3) - Vegetation of sand dunes of the Hamersley Range/Fortescue Valley	2.2 km west of the premises boundary.

### 4. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway, and impact to receptors in accordance with the *Guideline: Risk assessments* (DWER 2020).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

The amendments to Licence L8859/2014/1 do not alter the activities as previously assessed, and no further controls are planned to be implemented by the Licence Holder.

#### 4.1 Replacement of monitoring bores PB02 and MBG

The Licence Holder submitted the annual environmental report (AER) and annual audit compliance report (AACR) for 2020 on 22 April 2021. During the reporting period, monitoring bores PB02 and MBG were removed for pit development and PB22 and MB21 were substituted for PB02 and MBG respectively.

A review of the AER and AACR for 2019 (report submitted to DWER on 28 April 2020) shows recorded standing water level and water quality in MBG and MB21, and PB02 and PB22 to be comparable, and the Delegated Officer considers the replacement bores to be adequate for ongoing measurement and reporting.

The new monitoring bore locations are given as MGA94 / Zone 50 coordinates in Table 2.

**Table 2: New monitoring bore locations**

Bore ID	Easting	Northing
PB22	737,652	7,480,030
MB21	738,081	7,484,392

## 4.2 Ambient groundwater monitoring

The Licence Holder proposed to change reference of 'chlorine' to 'chloride', as part of groundwater monitoring in the licence. Chloride is a more accurate term for the salt present in groundwater, measured as milligrams per litre (mg/L). The Delegated Officer agrees to make this change in the Licence.

The Licence Holder has proposed that the larger list of parameters used for the MBK monitoring bore, also be used for all ambient groundwater monitoring point references in Licence L8859/2014/1. The Delegated Officer does not expect this to change the risk to the environment and will generate a larger list of parameters under which the Licence Holder will operate, while reducing the administration of compliance reporting to the benefit of the Licence Holder.

## 5. Consultation

Table 3 provides a summary of the consultation undertaken by the department.

**Table 3: Consultation**

Consultation method	Comments received	Department response
Local Government Authority – Shire of East Pilbara - advised of proposal (9 September 2021)	N/A	N/A
Department of Mines, Industry Regulation and Safety (DMIRS) advised of proposal 9 September 2021, comment received 27 September 2021.	DMIRS has advised the Licence Holder to review the mining proposal, for which the monitoring bore network was approved, against the guideline against which the mining proposal was approved (2006 guidelines), to determine if a revision to the mining proposal is required to relocate these two new monitoring bores.	N/A
Licence Holder was provided with draft amendment on 9 December 2021	Licence Holder comment received 9 December 2021, requesting that the remainder of the consultation period be waived, and the final Licence issued.	Minor typographic errors corrected in Table 2.

## 6. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that a Revised Licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

### 6.1 Summary of amendments

Table 4 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the Revised Licence as part of the amendment process.

**Table 4: Summary of licence amendments**

Condition no.	Proposed amendments
3.4.1	Monitoring bores PB02 and MBG have been removed for pit development. These bores will be replaced with bores PB22 and MB21.

Condition no.	Proposed amendments
3.4.1	For monitoring bore MBK the parameter listed as “Chlorine” is proposed to be changed to “Chloride”.
3.4.1	The parameter list for bore MBK is to be applied to all bores in Condition 3.4.1.
Schedule 1: Maps	Updated Figure 3 to include new monitoring bore locations.

## References

1. Mineral Resources Limited (MRL) 2021, *Iron Valley IR-F09 Licence Amendment Application Form and supporting documentation*, Applecross, Western Australia.
2. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
3. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
4. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.

## Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY				
<b>Application type</b>				
Amendment to licence	<input checked="" type="checkbox"/>	Current licence number:	L8859/2014/1	
		Relevant works approval number:		N/A
Date application received		11 June 2021		
<b>Applicant and Premises details</b>				
Applicant name/s (full legal name/s)		Mineral Resources Limited		
Premises name		Iron Valley Iron Ore Project		
Premises location		Mining Tenement M47/1439 and Miscellaneous Licence L47/757		
Local Government Authority		Shire of East Pilbara		
<b>Application documents</b>				
HPCM file reference number:		DER2014/001998-1~5		
Key application documents (additional to application form):		Attachment 2 – monitoring bore locations map		
<b>Scope of application/assessment</b>				
Summary of proposed activities or changes to existing operations.		<p><b>Licence amendment</b></p> <p>Proposed change to licence conditions, i.e.:</p> <ol style="list-style-type: none"> <li>1. Condition 3.4.1 ambient groundwater monitoring – monitoring bores PB02 and MBG have been removed for pit development. These bores will be replaced with bores PB22 and MB21 which are reported as being in a similar location and depth (location shown in Attachment 2 of the application).</li> <li>2. Condition 3.4.1 ambient groundwater monitoring – regarding monitoring bore MBK the parameter listed as “Chlorine” is proposed to be changed to “Chloride”.</li> <li>3. Condition 3.4.1 ambient groundwater monitoring – licence holder wishes to have the parameter list for bore MBK applied to all bores in Condition 3.4.1.</li> </ol>		



**Category number/s (activities that cause the premises to become prescribed premises)**

**Table 1: Prescribed premises categories**

Prescribed premises category and description	[Proposed] [Assessed] production or design capacity	Proposed changes to the production or design capacity (amendments only)
Category 5 Category 6 Category 89	N/A	Nil

**Legislative context and other approvals**

Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	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"/>
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ministerial statement No: MS 1044 EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No:
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Certificate of title <input type="checkbox"/> General lease <input type="checkbox"/> Expiry: Mining lease / tenement <input type="checkbox"/> Expiry: Other evidence <input type="checkbox"/> Expiry:
Has the applicant obtained all relevant planning approvals?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Approval: Expiry date: If N/A explain why?
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	CPS No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: N/A Licence/permit No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Licence/permit No: GWL 182884
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Type: N/A Has Regulatory Services (Water) been consulted?

		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
		Regional office: N/a	
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Priority: P1 / P2 / P3 / N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to <u>WQPN 25</u> )? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx</i> )	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Mining Act	
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"/>		
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Classification: N/A Date of classification: N/A	