



Application for Licence

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

Licence Number	L9402/2023/1
Applicant	Carnegie Gold Pty Ltd
ACN	117 116 097
File number	DER2023/000375
Premises	Riverina Gold Operations Within Mining Tenement M30/256 As defined by the premises map attached to the issued licence
Date of report	10 November 2023
Decision	Licence granted

**A/SENIOR ENVIRONMENTAL OFFICER, INDUSTRY REGULATION
REGULATORY SERVICES**

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

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1. Decision summary

This decision report documents the assessment of potential risks to the environment and public health from emissions and discharges during the operation of the premises. As a result of this assessment, licence L9402/2023/1 has been granted.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this decision report, the Department of Water and Environmental Regulation (the department; DWER) 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 8 June 2023, the applicant submitted an application for a licence to the department under section 57 of the *Environmental Protection Act 1986* (EP Act).

The application is to seek a licence relating to extracting and discharging up to 500,000 tonnes of dewater into the environment from the Riverina Pit to Lady Gladys Pit to allow the mining of ore at the premises. The premises is approximately 42 km west of Menzies.

The premises relates to the category and assessed production capacity under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in licence L9402/2023/1. The infrastructure and equipment relating to the premises category and any associated activities which the department has considered in line with *Guideline: Risk Assessments* (DWER 2020b) are outlined in licence L9402/2023/1.

3. Overview of premises

The premises has been subject to modern mining activity since the 1980s historic mining practices. It has been on care and maintenance since 2008 (OBM 2020). To recommence mining at the premises, the applicant's scope of works involves two stages: Stage 1 and Stage 2.

Stage 1 was approved under Mining Proposal Registration Identification (MP Reg ID) 88478 which involved the recommencement of pit mining within the Riverina deposit. This included the extension and deepening of the existing open pit, which were largely completed to design in 2022. MP Reg ID 92668 was approved in February 2021 to include a modest pit cutback, establishment of high-density polyethylene (HDPE) pipeline to recover pit waters from Lady Gladys and Mulline Rose for dust suppression and road maintenance at Riverina. To achieve this, the applicant commenced the construction of a 15.6 km PN12.5 pipeline (Greenlands Equipment, 2023). The applicant did not apply for a works approval to authorise the construction of the pipeline as it was not considered a prescribed activity under Schedule 1 of the EP Regulations.

Stage 2 involved the decline development off the base of the mined-out pit within Riverina to allow underground mining. MP Reg ID 88478 and 92668 mentioned that historic workings are flooded and will be dewatered progressively during pit mining with the saline water fully utilised for dust suppression (OBM, 2020a and 2020b). The works involved underground development of the historic Riverina mine voids that contain an unknown volume of water and pumping water from Riverina to Lady Gladys pit for storage. As part of this application, the applicant intends to use the existing pipeline constructed during Stage 1 works, operating it in the opposite direction, pumping mine dewater from the Riverina underground mine to Lady Gladys pit for discharge.

3.1 Scope of prescribed activity

The applicant’s plan of dewatering involves extracting water from the Riverina pit at an approximate rate of 10 L/sec. The recovered groundwater will initially be stored in the in-pit storage dam (Riverina South) to allow settling to occur prior to the water being pumped to surface stage tanks, which are connected to a standpipe for road maintenance and dust suppression. Excess water in the storage tanks at Riverina South Pit from dewatering will be transferred to Lady Gladys Pit and its associated storage tanks. Mine dewater at the Lady Gladys Pit and hardstand area will be used for the mining operation and for the Shire of Menzies ongoing water requirements for road maintenance. After considering beneficial reuse of mine dewater and evaporation, discharge to Lady Gladys pit was estimated to be 106,735 m³ per annum (OBM, 2023a). The capacity of Lady Glays pit to a proposed freeboard of 10 m below natural surface level is 2,738,000 m³, indicating there is adequate capacity for mine dewater storage for the current life of mine (i.e., five years).

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 2020b).

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.

4.1 Source-pathways and receptors

4.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premise operation which have been considered in this decision report are detailed in Table 1 below. Table 1 also details the control measures the applicant has proposed to assist in controlling these emissions, where necessary.

Table 1: Proposed applicant controls

Emission	Sources	Potential pathways	Proposed controls
Operation			
Saline dewater	Transfer of mine dewater from Riverina Pit to Lady Gladys Pit for discharge	Release of saline water into the environment via pipeline/infrastructure breach.	<ul style="list-style-type: none"> • 12 hourly corridor inspection to occur; • Pipeline telemetry system with breathing valves; • Pipeline spills/leaks to be maintained through pipeline housed in V containment bunds and catch sumps along the pipeline; • Automatic pressure shutoff device fitted to end of pipe staging tanks; • Water flow meters fitted on tank/pit discharge locations; • Staging tanks have overflow pipes directed back into voids; and • Standpipes fitted with manual shut

Emission	Sources	Potential pathways	Proposed controls
			off valves.
		Mine dewater discharged to land from overtopping of pits or staging tanks into the environment.	<ul style="list-style-type: none"> • Biannual pit level survey; • Installation of freeboard markers in the Lady Gladys Pit (10 m); • Staging tanks at Riverina and Lady Gladys will be maintained by a tank top pipeline directed back into the adjacent open pit; and • Develop a trigger action response plan (TARP) if the water level rises to 15 m below pit crest. The TARP will involve discharge to a drainage line.
		Mine dewater seepage through the base and walls of pits to soil and groundwater.	<ul style="list-style-type: none"> • Monthly field water monitoring conduction (pH, EC and TDS) at a staging tank with quarterly major anions and cations analysis; • Hydrology and groundwater studies are completed with no beneficial resource identified; and • Cumulative water abstraction volumes are tracked monthly during operations.
Hydrocarbons	Spill from water pump/generator/trucks	Release of hydrocarbons into the environment via spill or leak	<ul style="list-style-type: none"> • Appropriately designed and maintained service truck for infrastructure; • Pumps and generators used will have catch sumps. Refueling trucks will have automatic cutoffs on the delivery nozzle; • Hydrocarbon management and spill procedure included as part of employee induction; • Use of the Hydrocarbon Spill Clean-Up Procedure involving the use of spill clean-up kits and contaminated soil recovery and disposal to a bioremediation pad; and • Hydrocarbon spill kits available at generator refueling site.

4.1.2 Receptors

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

Table 2 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental Siting* (DWER 2020a)).

Table 2: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity
None	N/A
Environmental receptors	Distance from prescribed activity
Native vegetation	Vegetation is nearby (<10 m) and/or adjacent to the pit and dewatering pipeline.
Native fauna	<p>Native fauna may be present within the proposed dewatering discharge area. While native fauna may have an aversion due to noise from infrastructure operating, they may access Lady Gladys pit as a source of drinking water.</p> <p>Reported total dissolved solids (TDS) samples obtained in the Riverina Pit samples ranged from 1,700 to 15,000 mg/L (OBM, 2023a). At this range, pit water may be palatable to native fauna and should be considered as a sensitive receptor. The applicant notes that previous mining operations indicate that two separate aquifers may be present: a shall fresh to brackish one and a deeper saline to highly saline groundwaters. It is not currently known whether the deeper saline groundwater will be dewatered and discharged at Lady Gladys Pit.</p>
Threatened and Priority Flora	<p>Three species of threatened and priority flora was identified within 5 kms of the dewatering pipeline.</p> <ul style="list-style-type: none"> • (Priority 2) <i>Thysanotus brachyantherus</i>, recorded in 1988, located approximately 5kms away from the dewatering pipeline, • (Priority 3) <i>Menkea draboides</i> recorded in 2011, located approximately 5kms away from the dewatering pipeline; and • (Priority 3) <i>Eutaxia nanophylla</i> – recorded in 1990 located approximately 250m from the proposed dewatering location. within the proposed prescribed premises. <p>JBBC completed a flora and vegetation survey of the area proposed for clearing in 2019. They could not find <i>Eutaxia nanophylla</i> (P3) during the site visit (JBBC, 2019).</p> <p>Providing the absence of the JBBC survey of <i>Eutaxia nanophylla</i> and the distance from the pipeline for <i>Thysanotus brachyantherus</i> and <i>Menkea draboides</i>, threatened and priority Flora is discounted as a receptor and will not be considered in the risk assessment.</p>
Credo pastoral lease area	It is understood that the former Credo pastoral lease is proposed to be added to the formal conservation resource system. The former Credo pastoral lease has been identified to contain 20 vegetation types, of which 15 are inadequately represented or unrepresented in the conservation reserve system.

	<p>Portions of the Credo pastoral lease area boundary crosses into a small portion of the pipeline corridor and the extent overlaps the prescribed premises (Figure 1).</p>
<p>Groundwater</p>	<p>Groundwater was encountered at 36.4 mbgl during production bore installation (RVWB20013) in November 2020.</p> <p>The Riverina North Bore depth to groundwater was 58 metres below ground level (mbgl) in April 2023. Limited inflows of groundwater have previously been intersected approximately 70 mbgl (OMB 2023a). The historic Riverina Mine Camp Bore (located approximately 800 m southwest of Riverina Pit groundwater was encountered at 70 mbgl in 1994 (OMB 2023a).</p> <p>Information sourced from Water Information Reporting (WIR) identified searchable bores within a 20 km vicinity of Lady Gladys Pit drill depth was noted to be between 22.86 to 48.16 mbgl (DWER, 2023).</p> <p>Two separate aquifers may be present: a shall fresh to brackish one and a deeper saline to highly saline groundwaters. It is unknown if both aquifers are present beneath the proposed prescribed premises.</p> <p>Recent sampling of the proposed dewatering pit (Riverina) and the proposed discharge location (Lady Gladys) reported TDS at a concentration of 15,000 and 7,400 mg/L respectively.</p>



Figure 1: Former Credo pastoral lease boundary, prescribed premises boundary and the dewater pipeline route.

4.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020b) for each identified emission source and takes into account potential source-pathway and receptor linkages as identified in Section 4.1. Where linkages are in-complete they have not been considered further in the risk assessment.

Where the applicant has proposed mitigation measures/controls (as detailed in Section 4.1), these have been considered when determining the final risk rating. Where the delegated officer considers the applicant's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the licence as regulatory controls.

Additional regulatory controls may be imposed where the applicant's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 3.

Licence L9402/2023/1 that accompanies this decision report authorises emissions associated with the operation of the premises i.e. Category 6: Mine dewatering.

The conditions in the issued licence, as outlined in Table 3 have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

Table 3: Risk assessment of potential emissions and discharges from the premises during operation

Risk events					Risk rating ¹	Applicant controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls	C = consequence L = likelihood			
Operation								
Source: Mine dewater abstracted from Riverina Pit. Activity: Transfer of mine dewater from/to Riverina Pit, Riverina South Pit Storage, Lady Gladys Pit and staging tanks.	Mine dewater – Saline	Potential pathway: <ul style="list-style-type: none"> Seepage of mine dewater through the base and walls of pits to soil and groundwater. Potential impacts: <ul style="list-style-type: none"> Groundwater mounding and Impacts to native vegetation health. 	<ul style="list-style-type: none"> Native vegetation – located adjacent or nearby to the dewatering pipeline; Groundwater conditions; and Credo pastoral lease area. 	Refer to Section 4.1.1	C = Moderate L = Unlikely Medium Risk	Yes	Condition 7 Condition 9	N/A
		Potential pathway: <ul style="list-style-type: none"> Mine dewater discharged to land from rupture/leak of dewatering pipeline or staging tanks. Potential impacts: <ul style="list-style-type: none"> Reduced quality or contamination of surface water (ephemeral creek line); and Soil solidity, areas impacted by hypersaline or contaminated water may become dispersive, causing increased erosion/sedimentation. 	<ul style="list-style-type: none"> Native vegetation (located adjacent to the existing dewatering pipeline); Groundwater conditions; Former Credo pastoral lease area; and Native fauna. 	Refer to Section 4.1.1	C = Minor L = Possible Medium Risk	Yes	Condition 1 Condition 2 Condition 3	N/A
		Potential pathway: <ul style="list-style-type: none"> Mine dewater discharged to land from overtopping of pits or staging tanks. Potential impacts: <ul style="list-style-type: none"> Soil solidity, impacted areas may become dispersive, causing increased erosion/sedimentation and Impacts to native vegetation health. 	<ul style="list-style-type: none"> Native vegetation located adjacent to or nearby pits or staging tanks; and Native fauna. 	Refer to Section 4.1.1	C = Minor L = Rare Low Risk	Yes	Condition 1 Condition 3 Condition 4 Condition 9	N/A
		Potential pathway: <ul style="list-style-type: none"> Mine dewater discharge from staging tanks to a water transport vehicle followed by discharge to land. Potential impacts: <ul style="list-style-type: none"> Soil solidity, impacted areas may become dispersive, causing increased 	Native vegetation – in direct contact of mine dewater used for dust suppression.	Refer to Section 4.1.1	C = Slight L = Unlikely Low Risk	Yes	Condition 6	This source pathway receptor linkage was not discussed in the application. Although it is considered to be a low-risk, condition 6 has been added to reduce unnecessary environmental impacts to native vegetation.

Risk events					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
dust suppression, road maintenance, mining use and/Shire of Menzies use.		erosion/sedimentation; and <ul style="list-style-type: none"> Impacts to native vegetation health 						

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk Assessments* (DWER 2020b).

Note 2: Proposed applicant controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.

5. Consultation

Table 4 provides a summary of the consultation undertaken by the department.

Table 4: Consultation

Consultation method	Comments received	Department response
Application advertised on the department's website on 21 August 2023	None received	N/A
Shire of Menzies advised of proposal on 15 August 2023	None received	N/A
Department of Mines, Industry Regulation and Safety (DMIRS) advised of proposal 15 August 2023	None received	N/A
Applicant was provided with draft documents on 22 September 2023	<p>Comments were received on 17 October 2023 and further clarification was received on 8 November 2023.</p> <p>Refer to Appendix 1: Summary of applicant's comments on risk assessment and draft conditions.</p>	<p>The department requested further clarification on the comments provided on 17 October 2023, which was received on 8 November 2023.</p> <p>Refer to Appendix 1: Summary of applicant's comments on risk assessment and draft conditions.</p>

6. Conclusion

Based on the assessment in this decision report, the delegated officer has determined that a licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2020a, *Guideline: Environmental Siting*, Perth, Western Australia.
3. DWER 2020b, *Guideline: Risk Assessments*, Perth, Western Australia.
4. DWER 2023, Water information reporting (WIR), accessed during August 2023 at <https://wir.water.wa.gov.au/Pages/Water-Information-Reporting.aspx>.
5. Greenlands Equipment 2023, Project Completion Report, R00979.
6. OBM 2020a, Riverina Gold Operations, Mining Proposal (Reg Id 88478) – Amendment #2 – Recommencement of Mining – M30/256.
7. OBM 2020b, Riverina Gold Operations, Mining Proposal (Reg Id 92668) – Amendment #1 – Recommencement of Mining – M30/256.
8. OBM 2023a, Riverina Gold Operations, Prescribed Premise Licence Application. Category 6 – Mine Dewatering, Riverina – Lady Gladys Pit.
9. OBM 2023b, Riverina Mine to Lady Gladys Pit – Pipeline Construction in Road Reserve. Letter dated 15 May 2023

Appendix 1: Summary of applicant's comments on risk assessment and draft conditions

Condition	Summary of applicant's comment	Department's response
1 <i>Standpipes and staging tanks</i>	<ul style="list-style-type: none"> - Standpipe and associated tanks will not be located within a bunding area and instead will be located near the pit crest with a negative gradient leading to the pit void. - Applicant requested to the requirements be "All standpipes associated tanks must be located within mine disturbed areas". 	<ul style="list-style-type: none"> - Amended condition to such that the standpipes and staging tanks must be located within the mine disturbed area and be negative graded towards the pit void.
	<ul style="list-style-type: none"> - Specified that the shutoff valves are manual. 	<ul style="list-style-type: none"> - No changes to the condition, such that manual and/or automatic shutoff valves are acceptable.
	<ul style="list-style-type: none"> - A freeboard of 0.3 m for the staging tanks is not necessary as the outlet pipe is sized to the fill capacity, any overflow of the staging tanks will be directed through an outlet pipe back into the pit. 	<ul style="list-style-type: none"> - Removed freeboard requirement for staging tanks from the condition. - Added requirement to maintain the pipeline that links the staging tanks to the pit void.
1 <i>Catch sumps (C1-C8)</i>	<ul style="list-style-type: none"> - The applicant has proposed to include catch sumps to be "mmaintained with adequate storage capacity to contain mine dewater from pipeline failure until automatic pressure shutoff device is activated." 	<ul style="list-style-type: none"> - Amended condition such that catch sumps only require adequate storage capacity to contain mine dewater until the automatic pressure shutoff device is activated. - Amended condition to specify that automatic cutouts must be maintained along dewatering pipeline.
9 <i>Water monitoring</i>	<ul style="list-style-type: none"> - The applicant has proposed that there is little environmental value in monitoring the water level in the pits on a monthly basis and therefore has proposed that the monitoring is changed to an annual period completed by a surveyor. 	<ul style="list-style-type: none"> - Amended the condition from monthly to annually water level monitoring (surveyed), requiring water level to be reported in mAHD. - The department considers this monitoring frequency to be acceptable, given the current depth of Lady Gladys Pit, as well as the requirement to maintain a 10 m freeboard (condition 4), which the applicant will monitor monthly.
	<ul style="list-style-type: none"> - The applicant has requested to amend sampling frequency of Lady Gladys Pit Lake from quarterly to annually. 	<ul style="list-style-type: none"> - Amended condition from quarterly to annually. - The department considers this monitoring frequency to be acceptable, given the more frequent monitoring of the mine dewatering discharge quality.

Condition	Summary of applicant's comment	Department's response
	<ul style="list-style-type: none"> - The applicant has proposed to change the sampling location from the discharge point at Riverina South Pit and Lady Gladys Pit and instead, sample a staging tank at either Riverina South Pit or Lady Gladys Pit (i.e., prior to discharge). 	<ul style="list-style-type: none"> - Amended condition 9 to replace sampling locations "discharge point at Riverina South Pit and Lady Gladys Pit" with "Lady Gladys staging tank or Riverina Pit staging tank."
	<ul style="list-style-type: none"> - The applicant has requested to remove the water level monitoring requirements and from the staging tanks 	<ul style="list-style-type: none"> - Amended condition to remove the requirement to monitor water level in all staging tanks due to transfer tanks containing a tank top pipeline that is directed back in the adjacent open pit.

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY					
Application type					
Works approval	<input type="checkbox"/>				
Licence	<input checked="" type="checkbox"/>	Relevant works approval number:	N/A	None	<input checked="" type="checkbox"/>
		Has the works approval been complied with?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>		
		Has time limited operations under the works approval demonstrated acceptable operations?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>		
		Environmental Compliance Report submitted?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>		
		Date Report received: N/A			
Renewal	<input type="checkbox"/>	Current licence number:			
Amendment to works approval	<input type="checkbox"/>	Current works approval number:			
Amendment to licence	<input type="checkbox"/>	Current licence number:			
		Relevant works approval number:	N/A	<input type="checkbox"/>	
Registration	<input type="checkbox"/>	Current works approval number:	None	<input type="checkbox"/>	
Date application received	8 June 2023				
Applicant and Premises details					
Applicant name/s (full legal name/s)	Carnegie Gold Pty Ltd				
Premises name	Riverina Gold Operations				
Premises location	M30/256				
Local Government Authority	Shire of Menzies				
Application documents					
HPCM file reference number:	DER2023/000375				
Key application documents (additional to application form):	Riverina Gold Operations Prescribed Premise Licence Application				
Scope of application/assessment					

<p>Summary of proposed activities or changes to existing operations.</p>	<p><u>Operations</u></p> <p>Category 6: Mine dewatering</p> <p><u>Scope</u></p> <p>The applicant is applying to discharge groundwater from the Riverina mine to the nearby Lady Gladys Pit (15 km away) to enable mining to proceed within the Riverina mine.</p> <p>The applicant plans to recover the dewatered groundwater within Lady Gladys Pit for later use and is to be pumped back to the Riverina mine (15 km away) use. This is expected to occur when mine water inflows decline during the life of the mine (LOM).</p> <p>The applicant also intends to use the mine dewater for mining use at Riverina and has a mutual agreement with the Shire of Menzies for the duration of the mining operations through the use of three standpipes located at the Pancontinental bores, the Lady Gladys and at the Riverina access road turn off.</p> <p>Three discharge points are presented on figure 2 within the application attachments:</p> <ul style="list-style-type: none"> - Lady Gladys Pit - Riverina mine - Riverina South Pit <p><u>Site Water Balance</u></p> <p>The Riverina Pit is estimated to contain a mix of groundwater and captured rainfall consisting of approximately 40,000 to 50,000 kL.</p> <p>The capacity of Lake Gladys Pit is to the planned freeboard of 10m from the natural surface is 2,738,000 kL.</p> <p>The applicant predicts that after groundwater use for mine and dust suppression the discharge to Lady Gladys is expected to be approximately 107,635 kL per annum. The flow rate will initially be 10 L/sec for the first year and slowing down to 5 L/sec/</p> <p>Applicant states that “No Groundwater Model was deemed necessary due to the limited scale of the dewatering programme.”</p> <p><u>Background</u></p> <p>Approval to recommence pit mining at the Riverina deposit was received on 6 October 2020 (MP Reg ID 88478).</p> <p>An amendment to the project was approved in February 2021 (MP Reg Id 92668) to include a modest pit cutback, establishment of HDPE pipeline infrastructure to recover mixed saline pit waters from the nearby Lady Gladys and</p>
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Mulline Rose Open Pits for dust suppression and haul road maintenance at Riverina.
Riverina Underground Operations began in early May 2023 and the plan is to attain a depth of 235 m below surface. Inflows of groundwater were intersected at approximately 70 m below surface.

Groundwater will be initially recovered by underground Flygt pumps, stored in the Inpit storage dam where any settling will occur before being pumped to the surface HDPE lined Riverina Mine Dam, Standpipe or Surface Storage tanks.

The mine plan requires that the decline and historic ore drives will be dewatered into the existing Riverina South Pit Storage where any required sediment settling will take place, then transferred to staging tanks on the mine surface, before being pumped to the Lady Gladys Pit for storage and later reuse.

It's identified that 10 L/s of saline water could be produced in the initial 12 months phase of dewatering prior to a gradual reduction in inflows to less than 5 L/sec in subsequent years.

The applicant states that excess water at the minesite, will be available for reuse as required by the Shire of Menzies for road maintenance.

Pipeline Construction

Pipeline corridor construction proposed to begin in on 15 May 2023 (OMB, 2023b).

Three standpipes and associated storage tanks construction status is unknown.

Water utilized for mining and dust suppression uses at Riverina with the excess piped in a butt-welded PN12.5 160 mm HDPE pipeline located in a bunded C-noted trench with eight staged catch sumps (10 m x 10 m) to capture spillage from the bunded C drain to the Lady Gladys Pit. Pipe breather valves will be installed at the required intervals to maintain internal pipe pressure.

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

Table 1: Prescribed premises categories

Prescribed premises category and description	Proposed production or design capacity	Proposed changes to the production or design capacity (amendments only)
Category 6: Mine dewatering: premises on which water is extracted and discharged into the environment to allow mining of ore.	500,000 tonnes / year	N/A

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 checked="" 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 type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: N/A EPA Report No: N/A
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No: N/A
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 checked="" type="checkbox"/> Expiry: M 30/256 expires 20 April 2038 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? - Works are occurring on a mining tenement construction of the pipeline has already been completed under the Mining Proposal Red Id 92668 granted in February 2021.
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 Clearing was already completed under approved Mining Proposal 92668 and the 10 ha clearing

		exemptions.
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
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"/>	Application reference No: N/A Licence/permit No: GWL 180490/3 Licence expires 12/08/2030 and is allocated 895,000 KL.
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 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: N/A Are the proposed activities/landuse compatible with the PDWSA (refer to WQPN 25)? 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?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<ul style="list-style-type: none"> • <i>EPA (Unauthorized discharges) Regulations 2004;</i> • <i>Environmental Protection (Noise) Regulations 1997;</i> • <i>Environmental Protection Act Regulation 1986;</i> • <i>Environmental Protection (Clearing of Native Vegetation) Regulations 2004;</i> • <i>Mining Act 1978;</i> • <i>Mines Safety and Inspection Act 1994 and Regulations</i>

		<p>1995.;</p> <ul style="list-style-type: none"> • <i>Water and Irrigation Regulations 1914.;</i> • <i>Environmental Protection (Clearing of Native Vegetation) Regulations 2004;</i> • <i>Environmental Protection (Gold Extraction Operations) Exemption Order 1993.;</i> • <i>RIWI Act; and</i> • <i>Environmental Protection (Controlled Waste) Regulations 2004.</i>
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<p>Classification:</p> <p>Sites Surrounding Lady Gladys Pit:</p> <ul style="list-style-type: none"> • Possibly Contaminated, CSS_ID 12598 (located approximately 3.9 kms northeast of Lady Gladys Pit and 6.3 kms southwest of Riverina Pit).