



Application for Licence Amendment

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

Licence Number L9453/2024/1

Licence Holder Ulysses Mining Pty Ltd

ACN 153 592 208

File Number APP-0030123

Premises Ulysses Gold Project

Part of tenements G40/4, G40/5, G40/6, L40/11, L40/12, L40/30, L40/34, M40/3, M40/101, M40/107, M40/110, M40/137, M40/166, M40/174, M40/20, M40/288, M40/289, M40/290, M40/291, M40/292, M40/293, M40/340

KOOKYNIE WA 6431

As defined by the premises map in Schedule 1

Date of Report 19 December 2025 (FINAL)

Decision Revised licence granted

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1. Decision summary

Licence L9453/2024/1 is held by Ulysses Mining Pty Ltd (Licence Holder) for the Ulysses Gold Project (premises), located within the Shire of Menzies, WA. As a result of this assessment, Revised Licence L9453/2024/1 has been granted.

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.

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 Overview of premises and application summary

2.2.1 Overview of premises

The premises is located within several mining tenements approximately 30 km south of Leonora within the Shire of Menzies, WA.

The Licence Holder holds works approval W6536/2021/1 for prescribed premise categories 5, 6, 54 and 89.

The current licence (L9453/2024/1) is for prescribed premises categories 6 and 89.

2.2.2 Amendment summary

On 23 July 2025 the Licence Holder submitted an application to the department to amend Licence L9453/2024/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act).

The Licence Holder has constructed the mine dewater discharge pipeline from Ulysees Central Pit to Danluce Pit under works approval W6536/2021/1 and has applied for a licence amendment to include the operation of this pipeline. No change to the existing mine dewater discharge capacity (656,000 tonnes per year) is required.

This amendment is limited only to changes to Category 6 activities.

2.2.3 Works approval compliance

On 30 January 2025 a progressive environmental compliance report (ECR) was submitted by the Licence Holder in relation to the Ulysees Central Pit to Danluce Pit dewater discharge pipeline. The Department has reviewed this report and confirmed that the pipeline was constructed in accordance with specifications in works approval W6536/2021/1.

2.2.4 Mine dewatering operations

The Licence Holder is undertaking staged construction of mine dewater infrastructure as summarised below:

- Stage 1: main pipeline from Ulysses Central Pit to the Danluce Pit. Minor pipelines from the Ulysses mining pits to the turkey's nest, and minor pipelines from the Admiral, Butterfly, Clark, and King (ABCK) pit area to the Danluce Pit;

- Stage 2: new pipeline from the ABCK pits to the Orient Well Pit.

On 13 December 2024, the Department granted licence L9453/2024/1 which included prescribed premises category 6 activities. Specifically, the Department assessed a production capacity of 600,000 kL per annum for the transfer of mine dewater from Ulysees West Pit to Ulysees Central Pit and Admiral Pit to Danluce Pit to facilitate planned mining operations.

This licence amendment application relates to Stage 1 only, i.e. the transfer of mine dewater from Ulysses Mining Area to the Danluce Pit.

Mine pit water balance

In 2022 the Licence Holder engaged Groundwater Resource Management (GRM) to undertake a mine pit water balance (GRM, 2022) associated with the transfer of water between the various pits at the premises. Hydrogeological assessment outcomes were used to develop the water balance model.

The completed assessments estimated that there is sufficient capacity in the Danluce pit to store excess water from the Ulysees mining area. Based on the modelling results, GRM recommended that the primary discharge pit, the Danluce Pit lake, should have a maximum water level of 425 metres Australian Height Datum (mAHD), which is about 5 m below the surrounding ground surface. The intent of this control is to avoid impacts on the surrounding vegetation related to mounding of pit lake water into the vegetation root zone.

No significant changes to groundwater quality are anticipated as groundwater sampling in the vicinity of all mine pits from 2019 to 2021 indicates brackish to saline water quality with total dissolved solids (TDS) between 1,000 and 7,000 mg/L. Concentrations of metals were mostly at, or near, detection limits. Nitrate concentrations were high in all samples.

2.3 Department initiated amendment

The Licence Holder holds works approval W6536/2021/1 which includes authorisation to construct the mine dewater discharge pipeline from the ABCK Pits to Orient Well Pit (Stage 2 works).

As of 20 November 2025, the Department has not received the required construction compliance report in relation to the Orient Well Pit discharge pipeline. Additionally, the Orient Well Pit discharge pipeline was not specifically included in the scope of the licence assessment completed on 13 December 2024.

In assessing the licence amendment application (scope described in section 2.2 in this report), the Department identified an error in the licence, namely that Orient Well Pit has been erroneously included in the list of discharge points. Given that the Orient Well Pit discharge pipeline is pending construction and the associated construction compliance report and licence application is pending, the Department has not licensed the operation of the Orient Well Pit discharge pipeline.

The Department has therefore completed amendments to the licence to omit references to the Orient Well Pit discharge pipeline and discharges at Orient Well Pit. Amendments made are noted in section 5.1 of this report. The Licence Holder can apply to include Orient Well Pit as a discharge point on the licence once the pipeline construction report has been submitted to the Department.

3. 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 risk assessment in this report relates only to the transfer of mine dewater from Ulysses Mining Area to the Danluce Pit.

3.1 Emissions, pathways and receptors

3.1.1 Emissions, pathways and controls

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

Table 1: Emissions, pathways and proposed controls

Emission	Sources	Potential pathways	Proposed controls
Mine dewater (brackish to saline and elevated nitrate levels)	Leaks from dewater transfer pipelines	Direct discharge to land and infiltration	<p>Infrastructure/equipment:</p> <ul style="list-style-type: none"> a) Constructed using HDPE material that meets AS/NZS 2033:2008, AS/NZS 4129:2008, AS/NZS 4130:2009, AS/NZS 4131:2010; b) Flow meters to measure discharge volumes; c) Leak detection and shut off system in case of leaks; and d) Isolation valves installed at appropriate intervals. <p>Monitoring:</p> <ul style="list-style-type: none"> a) Daily inspections of dewatering pipelines to confirm visual integrity of pipelines. <p>Contingency measure:</p> <ul style="list-style-type: none"> a) Shutdown of required section of dewatering system if any leaks or spills from the pipeline are detected (until the leak has been repaired).
Mine dewater (brackish to saline and elevated nitrate levels)	Seepage at receiving pit (Danluce Pit)	Infiltration to soils and groundwater; Groundwater mounding in the vicinity of Danluce Pit	<ul style="list-style-type: none"> a) Ensure Danluce Pit lake is maintained below maximum water level of 425 mAHD (5 m below the surrounding ground surface) b) Monthly monitoring of dewater pH and electrical conductivity at discharge point (Danluce Pit).

Emission	Sources	Potential pathways	Proposed controls
Mine dewater (brackish to saline and elevated nitrate levels)	Overtopping of receiving pit (Danluce Pit)	Overland runoff and infiltration into soils	<ul style="list-style-type: none"> a) Install flow meters and record the volume of water discharged each month; b) Monthly monitoring of pit lake water level (freeboard capacity); and c) Ensure Danluce Pit lake is below maximum water level of 425 mAHD (5m below the surrounding ground surface).

3.1.2 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 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 2020)).

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

Human receptors	Distance from prescribed activity
None identified	Not applicable.
Environmental receptors	Distance from prescribed activity
Soils	In the vicinity of the dewater discharge pipeline and Danluce Pit.
Native vegetation	In the vicinity of the dewater discharge pipeline and Danluce Pit.
Priority 3 flora (<i>Calytrix Hislopia</i>)	Population exclusion zone 30 m southwest and 190 m southeast of prescribed premises boundary and >370 m south of the Danluce Pit.
Threatened fauna Leipoa ocellata (mallefowl)	Department records show a historical sighting of mallefowl in the vicinity of Ulysses West Open Pit.
Native fauna	May occur in the vicinity of the dewater discharge pipeline and Danluce Pit.
Ephemeral creeks	May occur in the vicinity of the dewater discharge pipeline and Danluce Pit, draining to the north. Creeklines to the east of Danluce Pit generally drain to the north east.
Groundwater (within Goldfields Groundwater Area)	The standing water level measured near the Ulysses mining area ranges from 22.9 metres below ground level (mbgl) to 32.9 mbgl.

	Groundwater at the premises is generally expected to be brackish to saline with TDS between 1,000 mg/L and 7,000 mg/L and may have elevated nitrate levels.
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3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for those emission sources which are proposed to change and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are incomplete they have not been considered further in the risk assessment.

Where the Licence Holder has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the Licence Holder'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 Licence Holder's controls are not deemed sufficient. Where this is the case the need for additional controls is documented and justified in Table 3.

The Revised Licence L9453/2024/1 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises i.e. operation of the mine dewater discharge pipeline from Ulysees Central Pit to Danluce Pit.

The conditions in the Revised Licence 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 operations

Risk Event						Risk rating ¹ C consequence = L = likelihood	Licence Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls / DWER comments
Source/Activities	Potential emission	Potential pathways	Receptors	Potential impact	Licence Holder's controls				
Operation of dewater discharge pipeline from Ulysses Mining Area to the Danluce Pit									
Leaks of mine dewater transported in pipeline	Mine dewater (brackish to saline and elevated nitrate levels)	Direct discharge to land and infiltration	Soils Ephemeral creek sediments	Soil/sediment degradation or contamination	Refer to section 3.1	C = Moderate L = Unlikely Medium risk	No	Condition 2 – dewatering pipelines operational requirements. Condition 3 – dewatering pipeline inspections. Condition 5 – authorised discharge points. <u>Conditions 12 and 13 – records of pipeline maintenance, repairs and inspections.</u> <u>Conditions 15 - reporting of incidents and actions taken.</u>	Record keeping conditions included to ensure and verify that the dewater discharge pipeline is being inspected and maintained/repared as required. The Licence Holder is required to comply with <i>Section 72 of the Environmental Protection Act 1986 – duty to notify DWER CEO of discharges of waste.</i> Reporting condition included to complement section 72 of the <i>Environmental Protection Act 1986</i> and to support future review of the licence.
			Native vegetation (including Priority flora identified in Table 2) Native fauna (including threatened fauna identified in Table 2)	Loss of native vegetation in impact area Loss of fauna or fauna habitat in the impact area	Refer to section 3.1				
Mine dewater discharge into Danluce Pit and subsequent overflow	Mine dewater (brackish to saline and elevated nitrate levels)	Overland runoff and infiltration into soils	Soils Ephemeral creek sediments	Soil/sediment degradation or contamination	Refer to section 3.1	C = Moderate L = Rare Medium risk	No	Condition 2 – requirement to maintain specified operational freeboard at all times. Condition 9 - monitoring of pit lake water level. Condition 15 – reporting of pit lake water level monitoring results. <u>Conditions 15 - reporting of incidents and actions taken.</u>	The Licence Holder is required to comply with <i>Section 72 of the Environmental Protection Act 1986 – duty to notify DWER CEO of discharges of waste.</i> Reporting condition included to complement section 72 of the <i>Environmental Protection Act 1986</i> and to support future review of the licence.
			Native vegetation Native fauna (including threatened fauna identified in Table 2)	Loss of native vegetation in impact area Loss of fauna or fauna habitat in the impact area	Refer to section 3.1				
Mine dewater discharge into Danluce Pit and subsequent seepage and groundwater mounding in the vicinity of the pit	Mine dewater (brackish to saline and elevated nitrate levels)	Infiltration to subsurface materials and groundwater through walls and base of pit	Subsurface materials Groundwater	Contamination of subsurface materials. Further deterioration of groundwater quality	Refer to section 3.1	C = Moderate L = Possible Medium risk	No	Condition 9 – monitoring of discharge volume and receiving pit lake water for pH, electrical conductivity, <u>TDS and nitrate.</u> <u>Condition 10 – where specified, water sample parameters to be analysed by a NATA accredited laboratory.</u> Condition 15 – reporting of dewater discharge volume and receiving pit lake water quality data.	Laboratory analysis of the receiving pit lake water for TDS and nitrate has been added to the licence. This is to verify field electrical conductivity results and given the potential for elevated nitrate levels. Monitoring of the pit lake water quality is required in order to review and manage risks during the licence term.

Risk Event						Risk rating ¹ C consequence L = likelihood	Licence Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls / DWER comments
Source/Activities	Potential emission	Potential pathways	Receptors	Potential impact	Licence Holder's controls				
		Groundwater mounding in the vicinity of Danluce Pit	Native vegetation (including Priority flora identified in Table 2) Native fauna (including threatened fauna identified in Table 2)	Loss of native vegetation in impact area Loss of fauna or fauna habitat in the impact area	Refer to section 3.1	C = Minor L = Unlikely Medium risk	Yes	Condition 9 - monitoring of pit lake water level. Condition 2 – requirement to maintain specified operational freeboard at all times. Condition 15 – reporting of pit lake water level monitoring results.	The Delegated Officer supports the licence holder's assessment to maintain the pit lake water level to no less than 5 m below the pit crest (at the lowest point) to manage the risks associated with groundwater mounding in the vicinity of the pit.

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

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

4. Consultation

The Department previously conducted consultation with direct interest stakeholders in the process of granting works approval W6536/2021/1 amendment in June 2023. This is detailed in the works approval amendment report on the Department's website - [W6536](#). Given the existing consultation process and outcomes the Delegated Officer determined additional consultation with direct interest stakeholders is not required for the licence amendment.

On 28 November 2025 the Department provided the applicant with a draft amendment report and draft amended licence. Comments were received from the applicant on 17 December 2025, which noted no objections or queries in relation to the licence amendment.

5. 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.

5.1 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 number / Section	Proposed amendments
Condition numbering	Condition numbers and references to condition numbers updated due to addition of new condition 1 and 10.
Condition 1 – design or production capacity	Administrative amendment – condition 1 added to state the prescribed premises category capacity limits, which align with the existing assessed capacity limits stated on page 1 of the licence.
Condition 2 – infrastructure and equipment	Additional requirements relating to dewatering pipeline maintenance. Amendments to condition wording relating to dewatering pipelines and pit lakes. Wording improvements relating to freeboard requirements. Removed reference to Orient Well Pit.
Condition 3 – inspection of infrastructure	Amendments to condition wording.
Condition 5 – authorised discharge points	Removed reference to Orient Well Pit. Added references to Figure 2.
Condition 9 – emissions and discharge monitoring	Amendment to discharge volume monitoring requirements. Amendment to frequency of pit lake water level monitoring at Danluce Pit. The same frequency has been applied for Ulysees Central Pit. Fortnightly monitoring of pit lake water levels (alternative to monthly monitoring) is required to better manage the risk (reduce the likelihood) of overtopping and

Condition number / Section	Proposed amendments
	<p>groundwater mounding in the vicinity of the pit lakes. Pit lake water level monitoring is also required when operations are not actively discharging into the pit, given that stormwater inputs may also contribute to the pit lake water levels.</p> <p>Reference to limits removed, noting that new condition 1 states the assessed category 6 design/production capacity (640,000 kL/annum) and pit lake water level limits are addressed in condition 2.</p> <p>Addition of quarterly analysis of TDS and nitrate to the water quality monitoring suite.</p> <p>Removed reference to Orient Well Pit.</p> <p>Added references to Figure 2.</p>
Condition 10	New condition requiring specific water sample parameters to be analysed by a NATA accredited laboratory.
Condition 15	<p>Reference to Annual Audit Compliance Report removed as this is addressed in Condition 14.</p> <p>Added term “biennial environmental report” to replace the term “environmental report”.</p> <p>Removed redundant column “format/form” from Table 9.</p>
Schedule 1 – premises map	<p>Updated to include illustration of dewater pipeline between Ulysees Central Open Pit to Danluce Pit.</p> <p>Removed reference to standpipe locations as “discharge points” noting that these are not considered to be direct discharge points to the environment.</p>
Schedule 1 – dewatering activities maps	<p>Dewatering activities and discharge point maps have been updated with a single map to illustrate authorised dewater pipelines and dewater discharge points.</p> <p>Removed reference to standpipe locations as “discharge points” noting that these are not considered to be direct discharge points to the environment.</p>

References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
3. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.
4. Groundwater Resource Management (GRM), 2022, Mine Pit Water Balance – Ulysses Gold Project. Prepared for Genesis Minerals Limited.