



Application for Works Approval

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

Works Approval Number	W6740/2022/1
Applicant	Lithco No. 2 Pty Ltd.
ACN	612 726 922
File number	DER2022/000447
Premises	Bald Hill Tantalite Project Binneringie Road, Shire of Coolgardie Mining Tenement M15/400
Date of report	2/11/2023
Decision	Works approval granted

A/MANAGER, RESOURCE INDUSTRIES
REGULATORY SERVICES

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

Table of Contents

1. Decision summary	1
2. Scope of assessment	1
2.1 Regulatory framework	1
2.2 Application summary and overview of premises	1
2.2.1 Proposed Category 85 WWTP infrastructure	2
2.2.2 WWTP discharge and effluent	3
Risk assessment	10
2.3 Source-pathways and receptors	10
2.3.1 Emissions and controls	10
2.3.2 Receptors	11
2.4 Risk ratings	12
3. Consultation	15
4. Conclusion	16
References	16
Appendix 1: Summary of applicant’s comments on risk assessment and draft conditions	17
Appendix 2: Application validation summary	18
Table 1: Classification of premises and assessed design capacity	1
Table 2: Existing sewage treatment infrastructure	3
Table 3: Infrastructure to be installed.	3
Table 4: Expected water quality for the Tristar WWTP system	10
Table 5: Proposed applicant controls	10
Table 6: Distance to sensitive human and environmental receptors from prescribed activity.	11
Table 7: Risk assessment of potential emissions and discharges from the premises during construction and operation	13
Table 8: Consultation	15
Figure 1: Location of the pre-existing prescribed premises infrastructure	5
Figure 2: Treated water pond design	6
Figure 3: Treated water pond section arrangement	7
Figure 4: Treated water pond layout plan	8
Figure 5: Simplified process flow diagram of WWTPs and discharge points	9

1. Decision summary

This decision report documents the assessment of potential risks to the environment and public health from emissions and discharges during the construction and operation of the premises. As a result of this assessment, works approval W6740/2022/1 (W6740) 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 and overview of premises

History of applications

On 5 October 2022, the applicant applied for a works approval to the department under section 54 of the *Environmental Protection Act 1986* (EP Act) for the Bald Hill Tantalite Project located on mining tenement M15/400. The premises is approximately 60 km east of the Widgiemooltha townsite.

The application was to undertake construction works relating to the upgrade of an existing sewage facility wastewater treatment plant (WWTP) (Biomax Aerobic Treatment Unit) by installing 3 extra tanks, to increase the secondary treatment capacity from 45 m³/day up to a maximum capacity of 72 m³/day. The treated effluent was to then be discharged into TSF2. The discharge into TSF2 has not been assessed by the Department of Mines, Industry Regulation and Safety (DMIRS).

The existing WWTP system consisted of:

- 2 x 56,500L Anaerobic Treatment Tanks
- 2 x 56,500L Aerobic Treatment Tank; and
- 3 x 22,500L Clarification and Disinfection Treatment Tanks.

The infrastructure proposed to be added to the existing WWTP system included:

- 1 x 56,500L Anaerobic Treatment Tank;
- 1 x 56,500L Aerobic Treatment Tank; and
- 1 x 22,500L Clarification Tank;

However, before drafting of the assessment for this original Works Approval was completed, the applicant informed the department, in February 2023, that the upgrade works (subject of the works approval application) had already been constructed and that discharge of the treated effluent into TSF2 had begun. This matter has been referred to the department's compliance section and will be dealt with separately.

The Delegated Officer has decided that as this infrastructure has already been constructed it no longer will be considered within the scope of this application. Approval for construction and operation of this upgraded WWTP (and discharge to TSF2) cannot be given in retrospect. It is recommended that the applicant applies for a licence amendment to L8830/2014/2 in order for the operation of this infrastructure (and discharge to TSF2 (if still required)) to be assessed and covered by the premises licence.

Scope of this assessment

In May 2023 after further correspondence, the applicant submitted additional information

outlining a proposal to now construct an additional new WWTP and a treated water holding pond (TWP) (in addition to the upgraded WWTP). The Delegated Officer at the time determined that the works approval application could be amended to include this new WWTP and TWP instead of a new application being applied for.

The new WWTP will consist of a Tristar Tertiary treatment unit with a capacity of 80 m³/day and a new TWP where all treated wastewater will report to once built. Discharge of the treated effluent to TSF2 will no longer be required once these are built.

The purpose of this new WWTP and TWP is to allow additional treatment of the effluent being discharged out of the existing upgraded Biomax WWTP on site. This will allow for improved environmental outcomes and remove the reliance on the TSF2 for discharge.

The premises relates to the category 85 and assessed production capacity of 80 cubic metres per day under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in works approval W6740. 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 2020) are outlined in works approval W6740.

Table 1: Classification of premises and assessed design capacity.

Description	Category	Assessed production, design capacity or throughput
Category – 85 Sewage facility: premises - a) on which sewage is treated (excluding septic tanks); or b) from which treated sewage is discharged onto land or into waters.	More than 20 but less than 100 m ³ per day.	Maximum capacity of 80 cubic metres per day (m ³ /day).

2.2.1 Proposed WWTP infrastructure

The existing sewage treatment infrastructure is shown in Table 2. The infrastructure and equipment to be installed are outlined in Table 3 below and the site location and design drawing are shown in Figures 1 and 2.

Table 2: Existing sewage treatment infrastructure

Reference	Infrastructure or equipment	Infrastructure location
1	<p>Biomax Aerobic Treatment Unit</p> <p>The WWTP consists of:</p> <ul style="list-style-type: none"> • 3 x 56,500L Anaerobic Treatment Tanks • 3 x 56,500L Aerobic Treatment Tank; and • 4 x 22,500L Clarification and Disinfection Treatment Tanks; <p>With a design capacity of 72m³ per day.</p>	Depicted in Figure 5

Table 3: Infrastructure to be installed

Reference	Infrastructure or equipment	Infrastructure location
1	Tertiary treatment WWTP – Tristar Sequential Batch Reactor (SBR) & Ultra Filtration (UF) System The upgraded WWTP will consist of: <ul style="list-style-type: none"> • 1 x 50,000L Feed Water Tank; • 1 x 50,000L Treated Water Storage Tank; With a design capacity of 80m ³ per day.	Depicted in Figure 1 as “WWTP” and design drawing provided in Figure 2
2	Discharge pipelines to TWP and washdown bay	Depicted in Schedule 1, Figure 2
3	Treated water pond <ul style="list-style-type: none"> • Sized to contain a maximum capacity of 5 ML • HDPE lined 	Depicted in Schedule 1, Figure 2

Following construction of required infrastructure, a compliance report will be submitted to DWER. A time limited operation period will be undertaken under the Works Approval, to allow for the assessment and determination of a licence amendment to L8830/2014/2. The licence amendment will need to assess the total design capacity of the two WWTPs systems (152 cubic meters per day) which triggers category 54.

2.2.2 Tertiary WWTP effluent

To improve environmental outcomes and remove the reliance on the TSF2 for discharge, the applicant has proposed to construct an ultra-filtration (UF) tertiary treatment plant and additional TWP nearby to the existing Biomax ATU. The Tristar Tertiary WWTP will have a capacity of 80 m³/day and discharge directly to the TWP and vehicle washdown bay. Once the tertiary system is constructed, it is expected that the treated effluent will meet the following criteria as listed in Table 4.

Table 4: Expected water quality for the Tristar WWTP system.

Tristar Ultra Filtration TTP	
Parameter and unit	Concentration Limit
Biochemical oxygen demand (mg/L)	≤ 20
Total Suspended solids (mg/L)	< 5
Total Dissolved Solids (mg/L)	≤ 1,000
Residual free chlorine (mg/L)	0.2 – 2
Nitrogen (mg/L)	< 30
Phosphorous (mg/L)	< 30
Thermo-tolerant Fecal Coliforms (colony forming units /100mL)	≤ 1
pH	6.5 – 8.5

The new TWP will be constructed next to the existing larger process water pond, and a spillway will allow for transfer from the new pond into the existing main pond if over topping occurs. The pond will be designed and fitted with a submersible transfer pump, and all existing pipes currently discharging into the main pond will be diverted into the new pond. The TWP will have a maximum capacity of 5 ML and constructed with a high-density polyethylene (HDPE) liner

and earthen bund, to provide a reliable discharge point for the tertiary WWTP. The HDPE liner will be a purpose-built liner of 1.5mm in thickness with a permeability of 1×10^{-9} m/s or less, which will eliminate any seepage from the facility and provide effective storage of the high percentage saline water across the site.

The effluent water that has undergone tertiary treatment is proposed to be used across the site for dust suppression, in plant processing, and the vehicle washdown bay. A Recycled Water Management Plan (RWQMP) is currently with the DoH for approval to assess the feasibility of this wastewater use. The applicant states that most of the treated wastewater will be used in the vehicle washdown bay. All discharge volumes from the WWTP will be recorded during time-limited operations to provide an overall water balance for the premises.

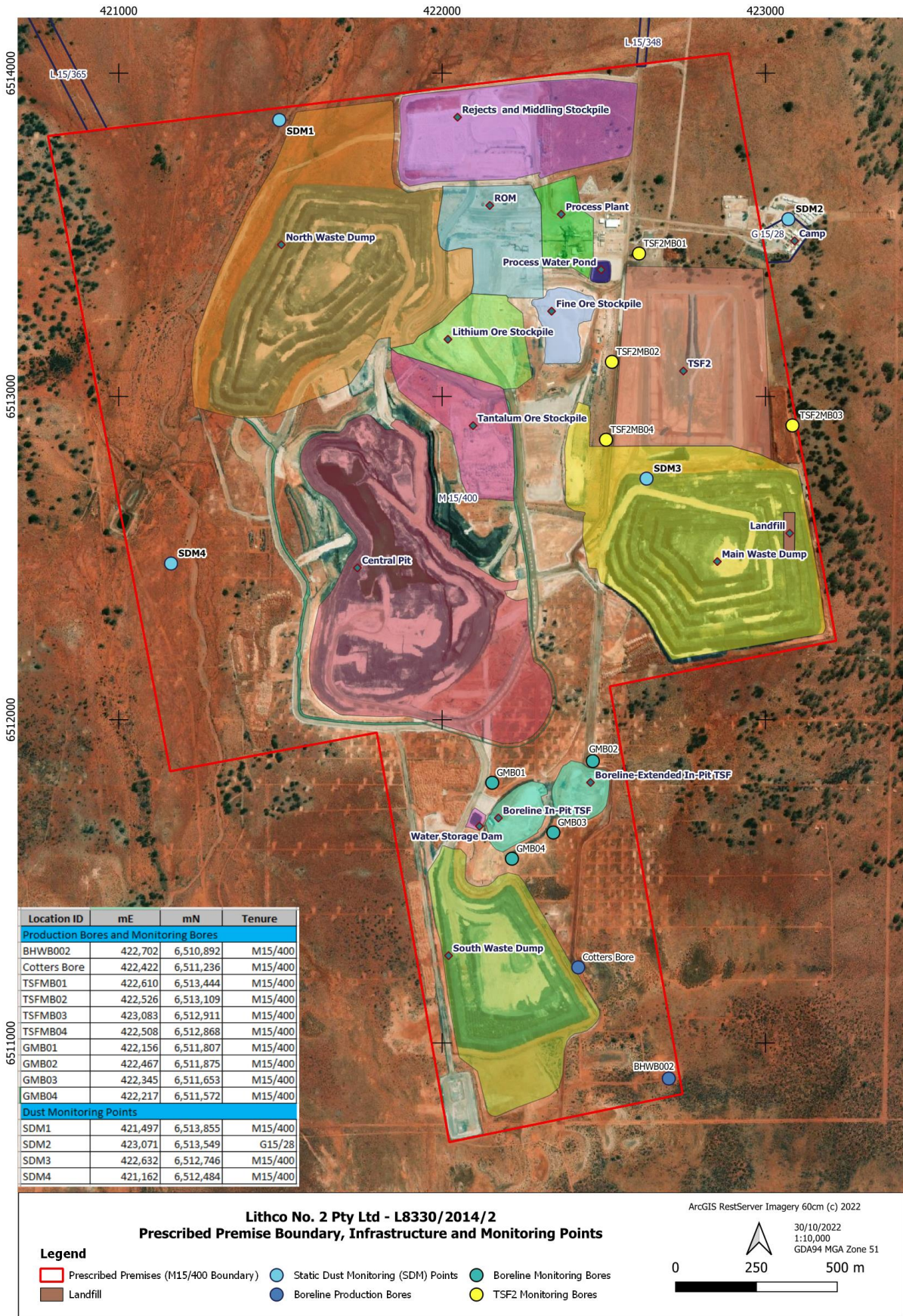


Figure 1: Location of the pre-existing and proposed infrastructure (Lithco, 2022)

Works Approval: W6740/2022/1

IR-T13 Decision report template (short) v3.0 (May 2021)

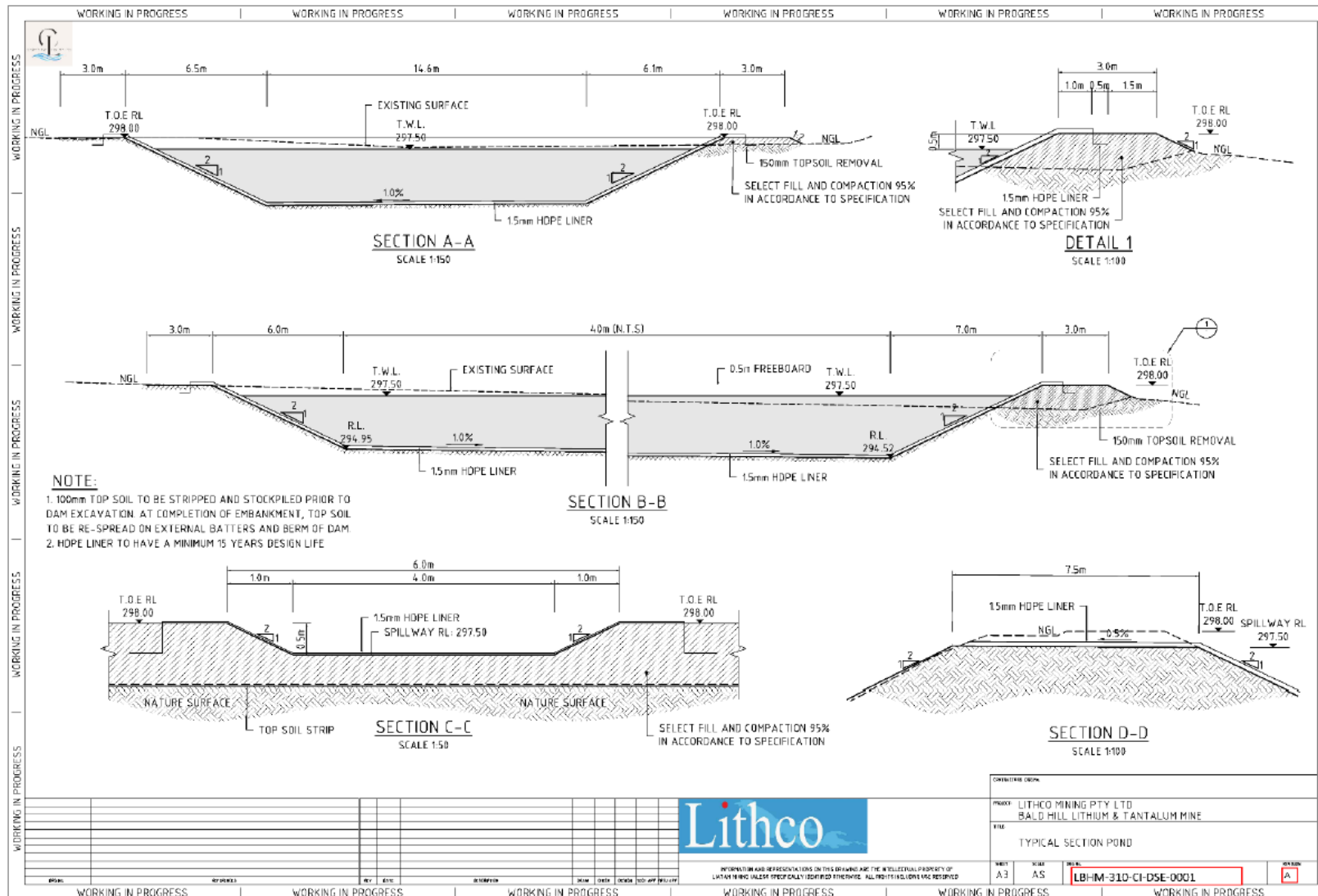


Figure 2: Treated water pond design (Lithco, 2023)

Works Approval: W6740/2022/1

IR-T13 Decision report template (short) v3.0 (May 2021)

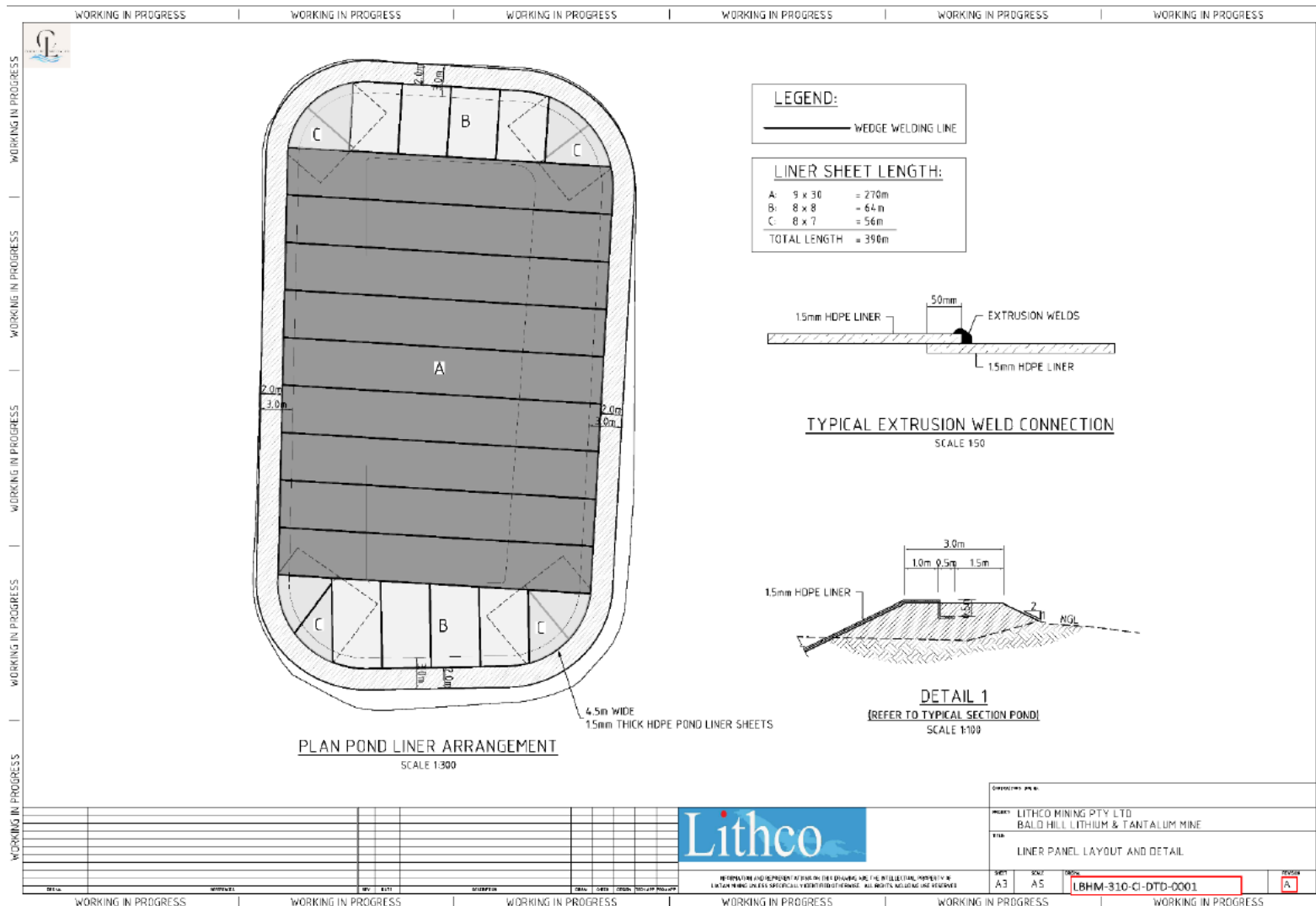


Figure 3: Treated water pond section arrangement (Lithco, 2023)

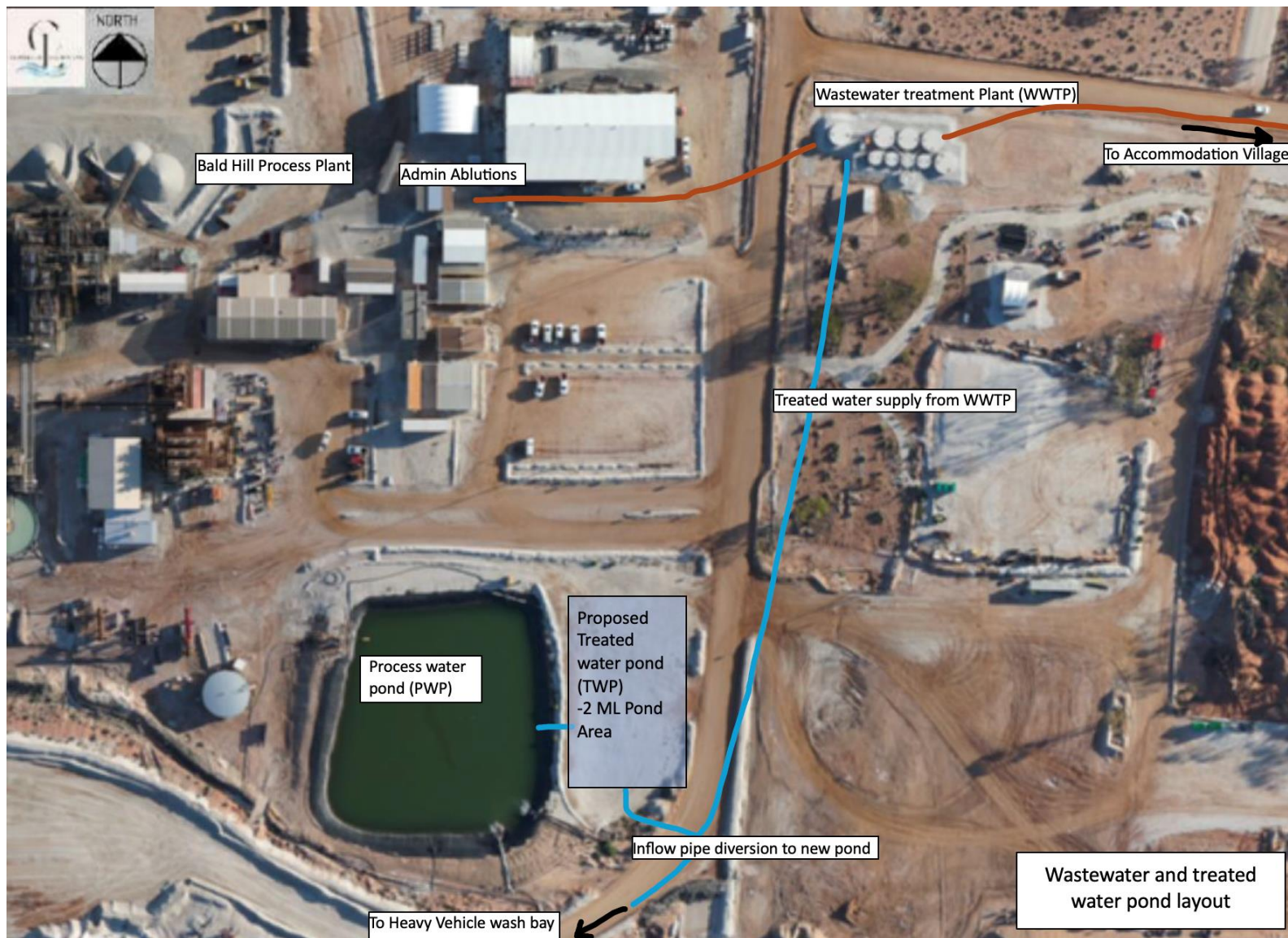


Figure 4: Treated water pond layout plan (Lithco, 2023)

Works Approval: W6740/2022/1

IR-T13 Decision report template (short) v3.0 (May 2021)

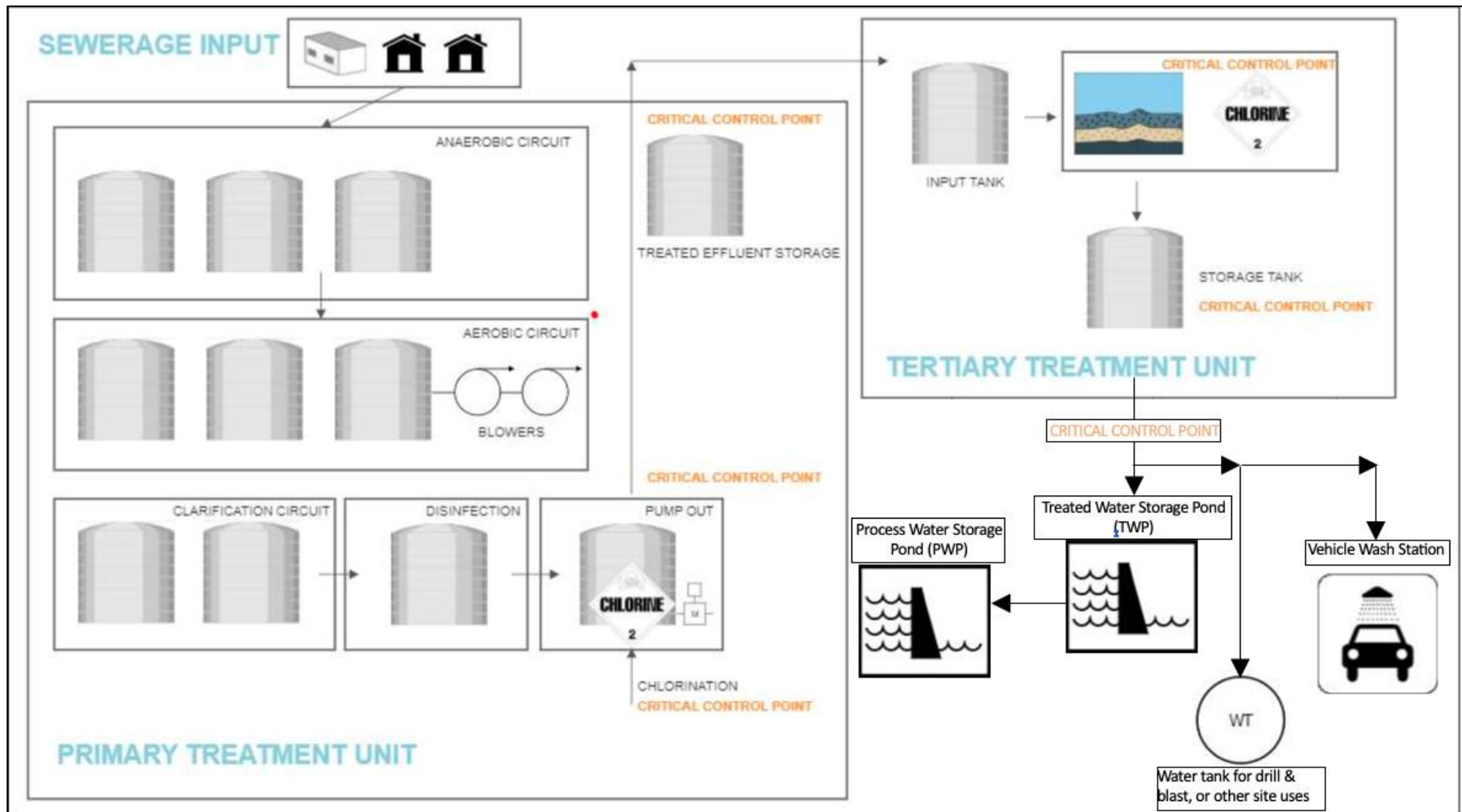


Figure 5: Simplified process flow diagram of WWTPs and discharge points (Lithco, 2023)

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.

2.3 Source-pathways and receptors

2.3.1 Emissions and controls

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

Table 5: Proposed applicant controls

Emission	Sources	Potential pathways	Proposed controls
Construction			
Dust	Construction of new WWTP infrastructure and associated heavy vehicle movements. Construction of TWP Construction of pipelines from WWTPs to the TWP.	Air / windborne pathway	Dust controls that will be implemented in accordance with a 'Dust Management Plan' for the activities at Bald Hill Mine including but not limited to the following: <ul style="list-style-type: none"> • Minimise vegetation clearing and vegetation disturbance. • Inform all personnel and contractors working in the Lithco Bald Hill Operations Area of their responsibilities in relation to dust management. • Construction work to install the WWTP is expected to be brief.
Operation (including time-limed operation)			
Raw sewage and treated wastewater	Overtopping or pipelines rupture/ breaches Seepage from TWP into soil and groundwater Rupture of pipeline causing tailings discharge to land	Direct discharge, infiltration, and overland flow Spill into soil and groundwater	<ul style="list-style-type: none"> • Wastewater will be stored in a HDPE lined tank. • An alarm system will be fitted to the facility to monitor water levels and pump failure. • Alarms installed to warn of malfunction before spills occur. • Control system allows to manually operate the WWTP. • Discharge pipelines are HDPE pipes with culverts to cross through roads.

Emission	Sources	Potential pathways	Proposed controls
	Leakage of effluent from tank and TWP into the environment Overtopping of TWP		<ul style="list-style-type: none"> TWP built with HDPE liner of 1.5mm in thickness and 1×10^{-9} m/s or less permeability. Surface water drainage and sediment basins will surround the TWP to provide containment of any spillages of wastewater. The chosen site for the construction of the TWP will provide natural topographical gradient back into the processing hub in the event of leakage or damage to the facilities.

2.3.2 Receptors

In accordance with the *Guideline: Risk Assessment* (DWER 2020), 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 5 provides a summary of potential human and environmental receptors that may be impacted because of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental Siting* (DWER 2020)).

Table 6: Distance to sensitive human and environmental receptors and from prescribed activity

Human receptors	Distance from prescribed activity
N/A	N/A
Environmental receptors	Distance from prescribed activity
Lake Cowan	3 km to the south - southwest of the premises
Underlying groundwater (non-potable purposes)	Less than 5 metres below ground level at the shallowest point on the premises
Adjacent vegetation	Remnant vegetation 30 m east and 20 m south of the proposed infrastructure

2.4 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for each identified emission source and takes into account potential source-pathway and receptor linkages as identified in Section 2.3. 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 2.3), 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 works approval 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 .

Works approval W6740/2022/1 that accompanies this decision report authorises construction and time-limited operations. The conditions in the issued works approval, as outlined in Table 7 have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A licence amendment is required following the time-limited operational phase authorised under the works approval to authorise emissions associated with the ongoing operation of the premises i.e., WWTP operation activities. A risk assessment for the operational phase has been included in this decision report, however licence conditions will not be finalised until the department assesses the licence application.

Table 7: Risk assessment of potential emissions and discharges from the premises during construction and operation

Risk events					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
Construction								
Construction of WWTP Infrastructure and placement of equipment Construction of TWP	Dust	Air / windborne pathway causing impacts to health and amenity	Adjacent native vegetation	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	N/A	Minimal dust is expected to be generated during construction and installation of the new WWTP. No nearby residential receptors mean dust impacts from construction activities are unlikely to occur.
Operation (including time-limited-operations operations)								
Wastewater discharges from spills and leaks from tanks or discharge pipeline Pond overtopping Soil and or groundwater impacts as a result of dust suppression Seepage from TWP	Untreated / partially treated wastewater	Overtopping of TWP / spills/ leaks of WWTP tanks and pipeline leaks/bursts resulting in effluent containing high levels of nutrients and saline water impacting the health and growth of surrounding vegetation and causing a reduction in soil and groundwater quality Nutrients seepage from TWP affecting	Adjacent native vegetation Surface water Groundwater	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	Condition 1: infrastructure and equipment specifications. Condition 6: operational controls during time limited operations. Condition 8: operational controls during time limited operations.	In the event of overtopping/spills/leaks of WWTP, TWP or pipelines, low level impacts could occur. Standard conditions imposed to ensure alarms systems are in place; all tanks and pipelines are constructed of impermeable material and free of leaks and defects; infrastructure is designed to manage stormwater, and all spills/leaks are cleaned up immediately. These conditions are in line with commitments made by the applicant. Wastewater must not be discharged undiluted or untreated to the TWP. The seepage risk has been assessed under the Draft Works Approval (W6740/2022/1), in conditions 1, 6, and 8 to specify that pipelines are constructed with HDPE pipes with culverts and are maintained and inspected daily, and TWP discharge water monitoring is undertaken to ensure proper wastewater treatment. Seepage risk from TSF2 also addressed under the current Licence (L8830/2014/2) in conditions 1, 2 and 14 to ensure

Works Approval: W6740/2022/1

Risk events					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
		groundwater						containment infrastructure is adequate and monitored regularly.

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

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

3. Consultation

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

Table 8: Consultation

Consultation method	Comments received	Department response
Application advertised on the department's website on 07 November 2022	None received.	N/A
Applicant Provided draft documents on 25/01/2023.	Refer to Appendix 1. 15/02/2023 in response to draft documents applicant admits that the WWTP originally onsite was constructed without DWER approval. Applicant requests to proceed WA to final stage of approvals process.	Refer to Appendix 1.
DMIRS contacted on 02/03/2023 for comment on draft WA.	DMIRS responded on 15/03/2023 and stated they were unaware of the holder's proposal to discharge wastewater into TSF2. DMIRS recommend that Lithco reviews all activities to ensure they are compliant with the <i>Mining Act 1987</i> and operate TSF Cell 2 in accordance with an approved Tailings Storage Facility Operations Manual, and ensure that the treated effluent disposed into TSF Cell 2 does not change the risk or proposed Environmental Outcomes, approved in 112377.	On 17/03/2023 the works approval holder (Lithco) was notified by DWER that: DMIRS recommend that Lithco reviews all activities to ensure they are compliant with the <i>Mining Act 1978</i> and operate TSF Cell 2 in accordance with an approved Tailings Storage Facility Operations Manual, and ensure that the treated effluent disposed of into TSF Cell 2 does not change the risk or proposed Environmental Outcomes, approved in 112377.
Applicant provides update on application progress on 23/05/2023.	Applicant admits to constructing the upgraded Biomax system originally proposed in the WA application without DWER approval, and requests to construct additional Tristar UF tertiary treatment plant (TTP) on the premises.	Request for Information (RFI) sent to applicant to clarify the existing and proposed infrastructure on the premises, as the information provided on 23/05/2023 was unclear.
Applicant provides response to RFI on 30/06/2023	Information in the RFI response mostly addresses the required points for the existing and proposed WWTP infrastructure. Applicant requests to construct additional treated water pond to divert effluent discharge from the TSF2 into an alternative location.	Follow up RFI sent on 10/07/2023. RFI requests any updated approval forms that were sent to DoH and DMIRS, in order to consolidate information regarding the proposed works on the premises. The cost of the existing and proposed construction and installation works is also requested, so that an updated fee can be provided if necessary, to account for the

		increased activities since the original application.
Applicant provides response to follow up RFI on 02/08/2023.	Applicant has provided outstanding information.	Applicant RFI response adequately addresses the request for the updated construction costs and provides key information for the construction of the treated water pond.
Updated Draft package sent to the applicant on 01/09/2023.	Applicant accepted updated draft package with minor changes to updated terminology and figures on 08/09/2023.	Updated.
Applicant sent a third draft document package on 27/10/2023	Applicant accepted changes, waived comment period and requested for the final package on 30/10/2023.	A third draft assessment and approval were provided to the applicant. New documents no longer refer to constructed infrastructure as a retrospective approval for construction cannot be given. Applicant understands and agrees to changes. Final package ready for DO on 01/11/2023.

4. Conclusion

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

An amendment to Licence L8830/2014/2 will be required to add the Biomax and TriStar WWTP systems to the licence and to allow the ongoing operation of the systems and the storage pond. The licence amendment will need to assess the total design capacity of the two WWTPs systems (152 cubic meters per day) which triggers category 54.

References

1. Lithco No. 2 Pty Ltd (2022), *Application form: Lithco No. 2 Pty Ltd works approval application*, Osborne Park WA
2. Lithco No. 2 Pty Ltd (2022), *Bald Hill Project Wasterwater Treatment Plant Works Approval Supporting Document*, Osborne Park WA
3. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
4. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
5. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.
6. Resource Engineering Consultants Pty Ltd (2021), *Geotechnical and Tailings: Critical Containment Infrastructure Report, Bald Hill Lithium Mine*, 2 Gemstone Boulevard, Carine, Western Australia.

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

Note: Comments are no longer relevant due to changes to the scope of the works approval.

Condition	Summary of applicant's comment	Department's response
1	<p>Applicant verified the number and dimensions of the tanks and equipment to be added to the WWTP, including the details of the equipment currently in use for the existing system.</p> <p>Updated daily and maximum throughput values provided.</p> <p>Removed the addition of the in-built emergency storage tank.</p> <p>Requested the nitrogen output be increased to be consistent with other WWTP of this size and capacity.</p>	<p>The additional tanks and equipment will not significantly change the risks assessed in the original draft, and hence are approved.</p> <p>The updated daily and maximum throughput values will not change the emissions significantly, and hence are approved.</p> <p>The additional treatment tanks will provide an adequate buffer capacity in case of emergency, and hence the emergency storage tank is not required.</p> <p>The increased nitrogen outputs are approved to be consistent with the treatment capacity of the plant.</p>
6	<p>Applicant requested to increase the daily expected throughput for the discharge pipeline from 45 m³ to 54 m³ per day.</p> <p>Applicant requested to further increase the maximum throughput for the discharge pipeline to 72 m³ per day for the Biomax system.</p>	<p>Throughput increased to account for the increased capacity provided by the upgraded WWTP.</p>
8	<p>Applicant requested that the frequency of monitoring the emissions and discharge from the WWTP outlet into the TSF2 be changed from weekly to monthly, following the first month of time-limited operations.</p>	<p>The change in monitoring frequency approved to allow for monthly monitoring, after the first month of time-limited operations is complete.</p>
Schedule 2 Figure 2 Figure 3	<p>Applicant provided updated diagrams to accurately represent the upgraded WWTP, with the additional tanks and equipment shown in red.</p>	<p>The updated diagrams have been added to the Works Approval, to accurately represent the proposed changes in the system and the general layout of the plant.</p>

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)				
Application type				
Works approval	<input checked="" type="checkbox"/>			
Licence	<input type="checkbox"/>	Relevant works approval number:		None <input type="checkbox"/>
		Has the works approval been complied with?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Has time limited operations under the works approval demonstrated acceptable operations?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
		Environmental Compliance Report / Critical Containment Infrastructure Report submitted?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Date report received:		
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	05/09/2022			
Applicant and premises details				
Applicant name/s (full legal name/s)	Lithco No.2 Pty Ltd. (Lithco)			
Premises name	Bald Hill Lithium-Tantalum Project			
Premises location	Mining Tenement M15/400. Bald Hill Mine Binneringie Road			
Local Government Authority	Shire of Coolgardie			
Application documents				
HPCM file reference number:	DER2022/000447			
Key application documents (additional to application form):	Department of Health and LGA Construction Approval for Sewage Facility. Critical Containment Infrastructure Report (TSF2). Engineer Maintenance Agreement and Site Map. Soil Test Results. Wastewater Management Report.			

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)

Scope of application/assessment

<p>Summary of proposed activities or changes to existing operations.</p>	<p>Works Approval application to construct a Sewage Facility (Biomax C45K) Wastewater Treatment Plant (WWTP) on the premises, to support the expanded accommodation capacity at the Bald Hill mine site. WWTP capable of 45 m³/day.</p> <p>The system is expected to receive a maximum wastewater volume of 37,980 L/day at peak site activity.</p> <p>Treated effluent will be exited to a 9.12 ha tailings dam via pipeline.</p> <p>WWTP to be maintained and serviced adequately to ensure the following water quality targets are achieved in the final treatment effluent:</p> <p>Total suspended solids = < 30 mg/L</p> <p>Biological Oxygen Demand= <20 mg/L</p>
--	--

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

Table 1: Prescribed premises categories

Prescribed premises category and description	Assessed production or design capacity	Proposed changes to the production or design capacity (amendments only)
Category 85: Sewage Facility	More than 20 but less than 100 cubic metres of wastewater per day (m ³ / day).	N/A

Legislative context and other approvals

<p>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?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Referral decision No: Managed under Part V <input checked="" type="checkbox"/> Assessed under Part IV <input type="checkbox"/></p>
<p>Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Ministerial statement No: EPA Report No:</p>
<p>Has the proposal been referred and/or assessed under the EPBC Act?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Reference No:</p>

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)

<p>Has the applicant demonstrated occupancy (proof of occupier status)?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Mining lease / tenement <input checked="" type="checkbox"/> Proof of Occupier Status (M15/400) Expiry: 07/09/2030 Other evidence <input :<br="" checked="" type="checkbox"/> Proof of Transfer of the Mining Licence at Bald Hill Tantalite Project.</p>
<p>Has the applicant obtained all relevant planning approvals?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/></p>	<p>Approval: Expiry date: If N/A explain why?</p>
<p>Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>CPS No: CPS 9563/1</p>
<p>Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Licence/permit No: CAW206380(1) Licence expired on 20/09/2022 and allowed for the construction of as many non-artesian wells as required.</p>
<p>Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Licence/permit No: GWL174305(4) Groundwater licence has been obtained to take 1.2 ML/year of groundwater, for the purposes of dewatering, processing and dust suppression Expiry: 08/02/2029</p>
<p>Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Name: Goldfields Groundwater Area Type: Groundwater Has Regulatory Services (Water) been consulted? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Regional office: Goldfields Wastewater Management Report - Wastewater disposal altered to a storage and evaporative method based upon the expanded capacity of the TSF2 structure.</p>

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)

<p>Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Name: N/A Priority: N/A Are the proposed activities/ landuse compatible with the PDWSA? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/></p>
<p>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>)</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p><i>-Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974</i> <i>-Water Services Act 2012, Section 91</i> <i>-Plumbers Licensing and Plumbing Standards Regulations 2000 (Plumbing Regulations)</i> <i>Rights in Water and Irrigation Act 1914</i> <i>-Environmental Protection (Unauthorised Discharges) Regulations 2004</i> <i>-Environmental Protection (Controlled Waste) Regulations 2004</i></p>
<p>Is the Premises within an Environmental Protection Policy (EPP) Area?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Is the Premises subject to any EPP requirements?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i>?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Classification: N/A Date of classification: N/A</p>