



Application for Works Approval Amendment

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

Works Approval Number	W6158/2018/1
Works Approval Holder	Hastings Technology Metals Ltd
ACN	122 911 399
File Number	DER2018/000838
Premises	Yangibana Rare Earths Project Early Works Legal description – Mining Leases M09/158, M09/157, L09/68, L09/70, L09/80, L09/81, G09/14 and E09/1700 WEST LYONS RIVER WA 6705 As defined by the Premises maps attached to the Revised Works Approval
Date of Report	22 November 2021
Decision	Revised works approval granted

Lauren Edmands
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	1
2.3 Reformatting of Works Approval	1
2.3.1 Construction requirements	2
2.3.2 Blended effluent	2
2.3.3 Commissioning requirements	3
2.4 Part IV of the EP Act	3
3. Risk assessment	3
3.1 Source-pathways and receptors	4
3.1.1 Emissions and controls	4
3.1.2 Receptors	4
3.2 Risk ratings	8
4. Consultation	10
5. Conclusion	11
5.1 Summary of amendments	11
References	13
Appendix 1: Application validation summary	14
Table 1: Works Approval Holder controls	4
Table 2: Sensitive environmental receptors and distance from prescribed activity	5
Table 3. Risk assessment of potential emissions and discharges from the Premises during construction and commissioning	9
Table 4: Consultation	10
Table 5: Summary of works approval amendments	11
Table 6: Conversion of works approval conditions in this amendment	12
Figure 1 WWTP siting with consideration to groundwater dependent environments	6
Figure 2 Siting of WWTP and irrigation sprayfield relative to surrounding creek lines	7

1. Decision summary

Works Approval W6158/2018/1 is held by Hastings Technology Metals Limited (Works Approval Holder) for the Yangibana Rare Earths Project Early Works site (the Premises), located in West Lyons River.

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 construction and operation of the Premises. As a result of this assessment, Revised Works Approval W6158/2018/1 has been granted.

The Revised Works Approval has been granted in a new format with existing conditions being transferred, but not reassessed, to the new format.

2. Scope of assessment

2.1 Regulatory framework

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

2.2 Application summary

On 13 April 2021, the Works Approval Holder submitted an application to the department to amend Works Approval W6158/2018/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- The relocation of the wastewater treatment plant (WWTP), irrigation field and accommodation village;
- Changes to the currently approved prescribed premises boundary to accommodate the change in location of the WWTP, irrigation field, and accommodation village; and
- An extension to the current duration of the works approval by 3 years, to allow for the construction of the WWTP, irrigation field and accommodation village.

In support of this amendment, the Works Approval Holder has provided confirmation that the specifications of the WWTP and irrigation field will remain unchanged from those already assessed and approved under the existing Works Approval.

No changes to the aspects of the existing Works Approval relating to prescribed premises category throughputs have been requested by the Works Approval Holder.

2.3 Reformatting of Works Approval

In amending the Works Approval, the Delegated Officer has:

- updated the format and appearance of the Works Approval;
- revised Works Approval condition numbers, and removed any redundant conditions and realigned condition numbers for numerical consistency; and
- corrected clerical mistakes and unintentional errors.

The Department has not undertaken any additional risk assessment of the Premises related to previously approved activities under the existing Works Approval.

In reformatting the Works Approval, the Delegated Officer has reworded previous conditions so as to align condition wording with the current regulatory approach in use by the Department.

This rewording of conditions will also remove regulatory uncertainty found to exist within previous Works Approval conditions.

A summary of these amendments is outlined below.

2.3.1 Construction requirements

WWTP

The Delegated Officer has removed reference to the construction of a 'Bardenpho WWTP' in the Existing Works Approval as the WWTP proposed for construction does not align with the Bardenpho wastewater treatment process. As such, infrastructure component requirements for the WWTP have also been amended.

Other construction requirements have been reviewed and reworded to provide greater clarity surrounding the construction intent.

Irrigation field

The irrigation field construction conditions have been split into conditions for 'Stage 1' and conditions for 'Stage 2' so as to clearly outline the requirements for each stage of irrigation.

The permitted irrigation quantity has also been amended to reflect the irrigation of 'blended effluent' as discussed in Section 2.3.2 below.

Reverse osmosis reject water

The terminology 'reverse osmosis (RO) reject water' has been changed to 'RO brines' to ensure consistency in reference to this waste stream between other similar Works Approvals and Licences authorised by the Department.

The requirement for water quality monitoring for RO brines does not constitute a design and construction / installation requirement, nor does reference to the RO brines constitute an item of infrastructure or equipment. As such, water quality monitoring for this waste stream has been moved to the commissioning phase of the works approval as discussed in Section 2.3.3 below.

The RO brine pipeline has been added as an infrastructure item with design and construction/installation requirements that align with the previous assessment of the construction of the WWTP and associated infrastructure undertaken for the Existing Works Approval.

2.3.2 Blended effluent

In reviewing WWTP and irrigation operational procedures outlined in the Existing Works Approval it is noted that treated wastewater from the WWTP and RO brines from the RO plant are to be blended prior to irrigation at the irrigation field. It is also noted that water quality monitoring is a requirement for RO brines prior to blending with treated wastewater and prior to irrigation.

The Existing Works Approval authorises the WWTP under Category 85 with an assessed production / design capacity of 98.8 m³/day, with Category 85 defined under the *Environmental Protection Regulation 1987* (EP Regulations) as a production / design capacity of more than 20 but less than 100 m³/day. The regulatory intent of this category is to capture the quantities of any contaminants that may be present in treated effluents with potential to be discharged to land or waters.

As the RO brines are being blended with treated wastewater and the entire waste stream is being irrigated, the Delegated Officer considers that the discharge of RO brines will need to be considered as an element of the WWTP throughput. This will ensure that any discharge of contaminants to land via irrigation will be recorded through the monitoring of blended effluent, as discussed in Section 2.3.3 below.

As the RO brines will be blended with treated wastewater at a rate of 50 m³/day, the maximum production / design capacity of the WWTP will increase to 148.8 m³/day, exceeding the limits defined for a Category 85 prescribed activity. As such, the Delegated Officer will amend the Licence by removing Category 85 and including Category 54, which is defined by the EP Regulations as having a production / design capacity of more than 100 m³/day.

2.3.3 Commissioning requirements

The current regulatory approach used by the Department for the assessment of Works Approval applications includes the setting of conditions for the commissioning of equipment, in line with the Guidance in the *Industry Regulation: Guide to Licensing*.

The Delegated Officer considers that the current commissioning requirements within the Existing Works Approval do not align with the regulatory approach in use by the Department and do not provide enough clarification to clearly outline commissioning requirements. As such, the following amendments have been made for the commissioning of the WWTP and associated infrastructure:

- Commissioning requirements have been added for the WWTP, Irrigation field (Stages 1 and 2) and the RO brine pipeline to ensure that infrastructure is functioning as per the construction/design specifications;
- An authorised discharge point for the irrigation of blended effluent has been specified;
- Monitoring requirements have been specified for the irrigation of blended effluent, which align with the discharge limits specified in the design and construction/installation requirements for the WWTP;
- Monitoring requirements for RO brines have been relocated from the design and construction/installation requirements and are now a requirement in the monitoring of blended effluent discharged via irrigation; and
- Information required to be submitted in the Environmental Commissioning Report has been clarified.

2.4 Part IV of the EP Act

The Premises is subject to the conditions within Ministerial Statement 1110 issued under Part IV of the EP Act. As a part of the works approval amendment assessment conducted under Part V of the EP Act, the application has been referred to the Part IV governing body, the Environmental Protection Authority (EPA) for comment.

EPA services have advised that the new area proposed for the relocation of the WWTP, irrigation field and accommodation village, falls outside of the development envelope currently approved within Ministerial Statement 1110. As such, the Works Approval Holder has submitted an application to EPA services to extend the development envelope across the proposed area to include this infrastructure.

This approval was granted on 9 November 2021. Further detail regarding comments received from EPA services during the works approval consultation period are outlined in Section 4.

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.

3.1 Source-pathways and receptors

3.1.1 Emissions and controls

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

Table 1: Works Approval Holder controls

Emission	Sources	Potential pathways	Proposed controls
Treated Wastewater	Spills or leaks of containment infrastructure	Seepage to soils and groundwater	<p>Balance and irrigations tanks will be fitted with water level exceedance triggers which issue alarms and flashing beacons.</p> <p>Bunding to be constructed around facility to protect from flood waters and contain leaks and spills.</p> <p>Conveyance pipelines will be High Density Polyethylene (HDPE).</p> <p>Daily and weekly inspections of the WWTP infrastructure and tank levels will be undertaken.</p>
RO Brines	Spills or leaks of containment infrastructure	Seepage to soils and groundwater	<p>Bunding constructed around facility to protect from flood waters and contain leaks and spills.</p> <p>Conveyance pipelines will be HDPE.</p>
Blended Effluent	Irrigation to land	Seepage to soils and groundwater	<p>The wastewater will be treated to the discharge limits, specified in the design and construction/installation requirements for the WWTP within the works approval, before being discharged to a dedicated irrigation field.</p> <p>Treated wastewater will be blended with RO brines prior to irrigation to land.</p> <p>Daily and weekly inspections of the irrigation field equipment will be undertaken.</p>

3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Works Approval 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 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)). As the nearest human receptor is located over 15km from the premises, impacts to human receptors have not been considered.

Table 2: Sensitive environmental receptors and distance from prescribed activity

Environmental receptors	Distance from prescribed activity
<p>Priority Ecological Community (PEC), Priority 1 (P1) Gifford Creek, Mangaroon, Wanna calcrete groundwater assemblage type on Lyons palaeodrainage on Gifford Creek, Lyons and Wanna Stations (Gifford Creek Calcrete PEC).</p> <p>This PEC comprises unique assemblages of invertebrates (stygofauna) that have been identified in the network of groundwater calcretes. Stygofauna occur within both the fractured rock aquifers across the broader Project area as well as the calcrete aquifers within the PEC footprint.</p>	<p>The Project development envelope intersects the northern portion of this PEC, however the prescribed premises will not intersect the shallow calcrete aquifer and there will be no excavation below the groundwater table. The nearest calcrete is approximately 6 km from the WWTP and irrigation area.</p>
<p>A Level 2 Flora and Vegetation assessment of the Yangibana Study Area (55,000 ha), including the borrow pit and accommodation village locations was undertaken.</p> <p>No threatened flora listed under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> and <i>Wildlife Conservation Act 1950</i> (WA) were recorded. Six Priority Flora listed by the Department of Biodiversity, Conservation and Attractions (DBCAs) were recorded in the development envelope of the proposed minor or preliminary works, being:</p> <ul style="list-style-type: none"> • <i>Acacia curryana</i> (Priority 1); • <i>Rhodanthe frenchii</i> (Priority 2); • <i>Wurmbea fluviatilis</i> (Priority 2); • <i>Spolobolus blakei</i> (Priority 3); • <i>Goodenia Berringbinensis</i> (Priority 4); and • <i>Goodenia nuda</i> (Priority 4). 	<p>Six priority species were recorded within development envelope, however these are not located within the proposed disturbance footprint of the prescribed activities.</p>
<p>Fraser creek Lyons River, including two semi-permanent pools Gifford Creek Proclaimed surface water areas</p>	<p>Fraser creek and minor water lines immediately adjacent to WWTP and Irrigation field area to the east and west.</p> <p>Lyons River approximately 6km from WWTP and irrigation area - two semi-permanent pools in the Lyons River area</p> <p>Located within the Pilbara Surface Water and Gascoyne River and tributaries Proclamation Areas.</p>
<p>Groundwater</p>	<p>Located within the Gascoyne Groundwater Proclamation Area.</p> <p>Depth to groundwater approximately 10 mbgl in creeks and Lyons River, groundwater measured at 33 mbgl at an early works bore installed adjacent to borrow pit.</p> <p>Depth to groundwater at the nearest pastoral bore to the irrigation area is approximately 25 mbgl.</p>

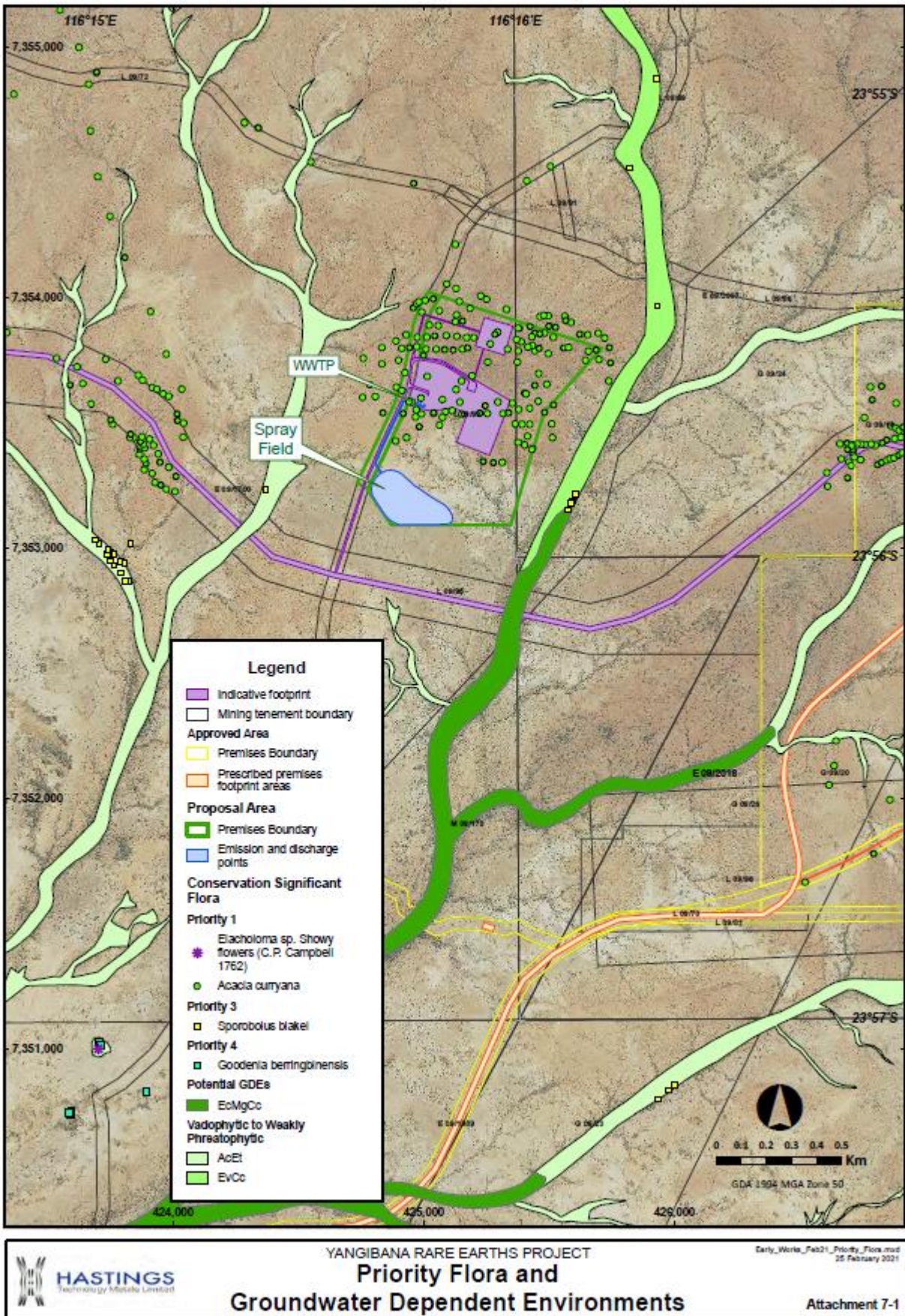


Figure 1 WWTP siting with consideration to groundwater dependent environments

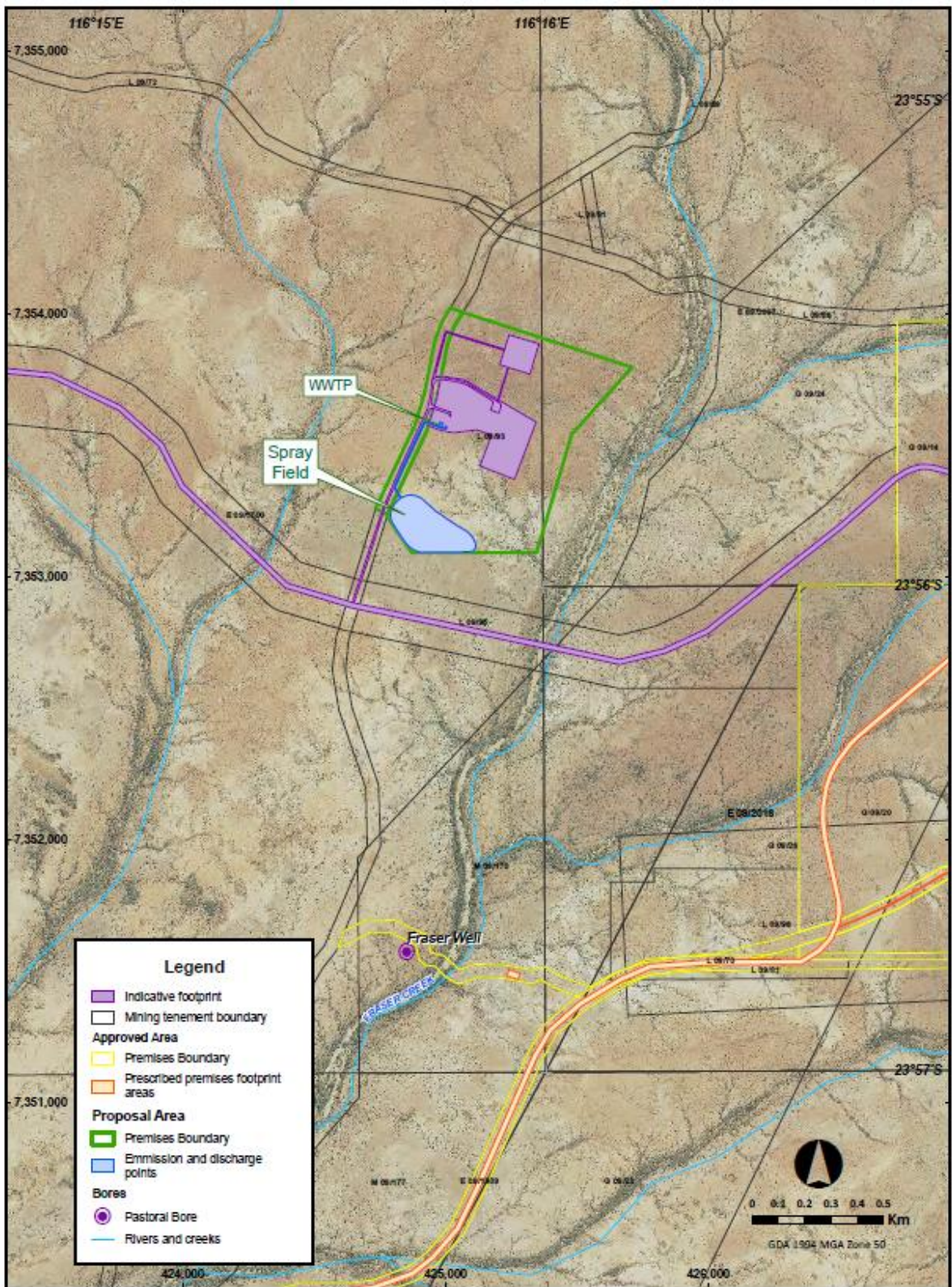


Figure 2 Siting of WWTP and irrigation sprayfield relative to surrounding creek lines

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 Works Approval 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 Works Approval Holder'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 Works Approval Holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 3.

The Revised Works Approval W6518/2018/1 that accompanies this Amendment Report authorises construction and commissioning. The conditions in the Revised Works Approval have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A licence is required the commissioning period to authorise emissions associated with the ongoing operation of the Premises i.e. WWTP operation and the irrigation of blended effluent. A risk assessment for the operational phase has been included in this Amendment Report, however licence conditions will not be finalised until the department assesses the licence application.

Table 3. Risk assessment of potential emissions and discharges from the Premises during construction and commissioning

Risk Event					Risk rating ¹ C = consequence L = likelihood	Works Approval Holder's controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Works Approval Holder's controls				
Commissioning								
Operation of the WWTP	Treated wastewater – spills or leaks of containment infrastructure	Seepage to soils and groundwater	Priority Ecological Community – premises mapped within area	Refer to Section 3.1	C = Minor L = Unlikely Medium Risk	Y	Conditions 1, 2, 5 and 9 <u>Condition 5</u>	The newly proposed area for the WWTP and irrigation field is significantly closer to significant creek lines (being Fraser creek and associates) that the previous area. As such, an additional condition has been added to the commissioning requirements for the irrigation field (stages 1 and 2) preventing any blended effluent entering any watercourse as specified in Figure 2 of the works approval.
	RO brines – spills or leaks of containment infrastructure		Fraser creek and minor water lines immediately adjacent to WWTP and irrigation field		C = Minor L = Unlikely Medium Risk	Y	Conditions 1, 2, 5 and 9 <u>Condition 5</u>	
Irrigation of blended effluent	Blended effluent		Pilbara Surface Water, Gascoyne Groundwater Gascoyne River and tributaries Proclamation Areas – premises mapped within area Underlying groundwater Surrounding vegetation		C = Moderate L = Unlikely Medium Risk	Y	Conditions 1, 2, 5, 6, 7, 8 and 9 <u>Condition 5</u>	

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

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

4. Consultation

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

Table 4: Consultation

Consultation method	Comments received	Department response
<p>Environmental Protection Authority advised of proposal 19 July 2021</p>	<p>Response received 25 August 2021</p> <p>The changes to the accommodation camp, WWTP and sprayfield applied for under Part V of the EP Act reflect the current s45C submission which Part IV are assessing. The intent of the s45C will be to extend the development envelope across this area to include this infrastructure.</p> <p>The applicant has identified some minor impacts to the <i>Acacia curryana</i> (P1) in the Part V assessment. This species is being considered as part of the s45C and the impacts of changing the location of the WWTP and sprayfield are very minor to this species (a few individuals)</p> <p>Part V can continue to assess this application with an intent to issue once the Ministerial Statement is updated.</p>	<p>In exercising its duties, the Department must ensure that the decisions and conditions for a works approval are not contrary to, or otherwise than in accordance with, an implementation agreement or decision of the Minister under sections 54(4)(b), 57(4)(b), and 59B(7)(b) of the EP Act. This means that works approvals must be consistent with Ministerial Statements and associated documents (such as approved management plans) for significant proposals that have been assessed under Part IV of the EP Act.</p> <p>Should a determination on the Part V works approval assessment be made before the conclusion of the Part IV assessment by EPA services, then the Delegated Officer will place the application on hold, with the granting of the revised works approval pending the completion of the Part IV assessment.</p>
<p>Works Approval Holder was provided with draft amendment 30 August 2021</p>	<p>Response received 8 September 2021</p> <p>An updated Premises map and premises coordinates have been provided as requested.</p> <p>Regarding the construction / installation requirements for the WWTP:</p> <ul style="list-style-type: none"> • There are no overflow pits required for the WWTP, there is ample capacity within the balance tank and effluent tank to deal with any surge or interruptions within the plant. This is the same design (or similar) as is used throughout the industry. • The pump pits currently referenced relate to collection and forwarding pits that are used when there isn't enough natural fall in the ground to allow gravity 	<p>The Delegated Officer has updated wording relating to the construction / installation requirements for the WWTP to reflect that:</p> <ul style="list-style-type: none"> • The WWTP includes pump pits to collect and forward raw sewage to the balance tanks, with pre-set level floats activating the pumps within the pits; • A flow meter is installed on the irrigation pump to monitor flow volumes to the irrigation sprayfield; and • The alarm system installed will notify the operator of pump failure and tank high levels. <p>The updated Premises map has also been incorporated into the works approval.</p>

	<p>feed to the plant. We would expect to use 3 of these pits as previously noted. Design of these pump pits is attached (<i>Pump pit 1600mm x 2500mm</i>).</p> <ul style="list-style-type: none"> • Mention of a flowmeter on the inlet to the WWTP is incorrect. There is a flowmeter on the irrigation system to control the rate of watering. • For clarity, there is no actual overflow alarm. The pump fault and high level alarms trigger to avoid overflow situations. <p>Updated wording has been provided to accurately reflect the design and installation of the WWTP.</p>	<p>Due to the large amount of coordinates provided to outline the premises boundary, reference to the coordinates will not be included within the works approval. Schedule 2 to the works approval has therefore been deleted.</p> <p>The coordinate set for the premises will be retained in DWER's records should it be required at a later date to provide clarification on the boundary.</p>
--	---	--

5. Conclusion

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

5.1 Summary of amendments

Table 5 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the Revised Works Approval as part of the amendment process.

Table 5: Summary of works approval amendments

Condition no.	Proposed amendments
N/A Works approval duration	Duration extended to 1 December 2024
N/A Premises details	Legal description updated to reflect new premises boundary and incorporate mining tenements.
N/A Prescribed premises category description	Category 85 amended to Category 54 to reflect increase in throughput accounting for the addition of RO brines to treated wastewater for irrigation to land.
1 Table 1	<p>Condition wording revised to new format and incorporates previous conditions 1 and 2. Construction and installation requirements table reference updated and format of table also revised to new format, including inclusion of infrastructure locations.</p> <p>Amendments to infrastructure components include:</p> <ul style="list-style-type: none"> • Crushing and screening plant – removal of annual throughput to front page of works approval in line with new formatting; • Putrescible landfill – reference to Class II waste incorporated in line with new formatting, rewording of current conditions for increased clarity with requirements; • WWTP – requirements reworded to provide greater clarity on construction intent;

	<ul style="list-style-type: none"> Irrigation field – Stage 1 and 2 separated to provide greater clarity on requirements, reference to 'reverse osmosis reject water' updated to RO brines, discharge limited updated to reflect irrigation of blended effluent; Reverse osmosis reject water – monitoring requirements removed from table and incorporated into commissioning conditions; and Addition of reverse osmosis brine pipeline requirements.
2 and 3	Condition wording revised to new format and incorporates previous conditions 3 and 4.
4, 5 and 6 Tables 2 and 3	<p>Incorporation of Environmental commissioning phase in line with new formatting, which incorporates previous condition 5.</p> <p>Amendments to commissioning of the WWTP include:</p> <ul style="list-style-type: none"> Operational requirements for the WWTP, Irrigation field (stages 1 and 2) and the reverse osmosis pipeline; and The authorisation of an emission point during commissioning.
7 and 8 Table 4	<p>Addition of monitoring requirements for blended effluent irrigation during commissioning.</p> <p>Incorporation of monitoring requirements for reverse osmosis treatment water (RO brines) from previous 'Infrastructure and equipment requirements table' to provide greater clarity on monitoring requirements, locations and timeframes.</p>
9 and 10	Condition wording revised to new format and incorporates previous condition 6.
7 (previous) Table 3 (previous)	Authorised emissions deleted as redundant under new formatting.
N/A Schedule 1: Maps	<p>New premises map incorporated into works approval to reflect new WWTP location and new premises boundary.</p> <p>New figure (Figure 2) incorporated to demonstrate location of nearby creek lines.</p>
N/A Schedule 2: Premises boundary	Premises boundary schedule replacing previous 'Schedule 2: Works' as this schedule is redundant under the new formatting.

Table 6: Conversion of works approval conditions in this amendment

Existing condition	Condition summary	Revised works approval condition	Conversion notes
N/A	Prescribed premises category description	N/A	Categories incorporated onto front page of works approval in line with new formatting.
N/A	Explanatory notes	N/A	<p>Explanatory notes deleted as redundant under new formatting.</p> <p>Interpretation and works approval history sections added in line with new formatting.</p>
N/A	Definitions and interpretation Table 1	Definitions Table 8	Definitions moved to the end of the works approval in line with new formatting.
1	Construction of infrastructure and equipment	Condition 1 Table 1	Condition wording revised to current works approval format.

Existing condition	Condition summary	Revised works approval condition	Conversion notes
	Table 2		
2	Departures from construction requirements	N/A	Redundant condition. Removed and incorporated into other conditions.
3	Compliance document submission on completion of the works	Conditions 2 and 3	Condition wording revised to current works approval format.
4	Departures from construction requirements	N/A	Redundant condition. Removed and incorporated into other conditions.
5	Commissioning	Conditions 4, 5 and 6 Tables 2 and 3	Condition wording revised to current works approval format. Commissioning requirements for items of infrastructure defined. Authorised discharge points during commissioning defined.
N/A	Monitoring during environmental commissioning	Conditions 7 and 8 Table 4	Monitoring requirements during commissioning defined. Incorporation of monitoring conditions from condition 1.
6	Submission of commissioning report on completion of commissioning	Conditions 9 and 10	Condition wording revised to current works approval format.
7	Authorised emissions Table 3	N/A	Redundant condition. Removed and incorporated into other conditions..
8	Maintenance of books	Condition 11	Reference changed and reformatted.
9	Compliance with Departmental request	Condition 12	Reference changed and reformatted.
N/A	Schedule 1: Maps	Schedule 1: Maps	Updated premises map to replace previous map. Inclusion of new map to demonstrate location of surrounding creek lines.
N/A	Schedule 2: Works	Schedule 2: Premises boundary	Works schedule deleted as redundant under new formatting. Premises boundary schedule included to incorporate coordinates in line with new formatting.

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.

Appendix 1: Application validation summary

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)			
Application type			
Amendment to works approval	<input checked="" type="checkbox"/>	Current works approval number:	W6158/2018/1
Date application received		13 April 2021	
Applicant and Premises details			
Applicant name/s (full legal name/s)		Hastings Technology Metals Ltd	
Premises name		Yangibana Rare Earths Project	
Premises location		Mining Leases M09/158, M09/157, L09/68, L09/70, L09/80, L09/81, G09/14 and E09/1700 WEST LYONS RIVER WA 6705	
Local Government Authority		SHIRE OF UPPER GASCOYNE	
Application documents			
HPCM file reference number:		DWERDT439029	
Key application documents (additional to application form):		Mining tenement summary report Premises map WWTP Specifications Clearing Areas Stakeholder consultation Siting and location Works approval extension letter	
Scope of application/assessment			
Summary of proposed activities or changes to existing operations.		<u>Works approval amendment</u> Relocation of the WWTP/Irrigation Sprayfield/Accommodation village Change to the Premises boundary Extension of expiry date by an additional three years	
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 12: Screening, etc. of material	363,000 cubic metres (m ³)	N/A	
Category 64: Class II or III putrescible landfill site	30 tonnes per year	N/A	
Category 85: Sewage facility	98.8m ³ /day	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 type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ministerial statement No: 1110 EPA Report No: 1642
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Reference No: EPBC 2016/7845
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: provided for all leases 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: Not required for Mining lease.
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"/>	No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Licence/permit No: GWL183285(2)
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: North West
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A

<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>Mining Act 1978</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>