Application for Works Approval Amendment

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

Works Approval Number	W6327/2019/1
Works Approval Holder	BHP Billiton Iron Ore Pty Ltd
ACN	008 700 981
File Number	DER2019/000568
Premises	Mining Area C – Ore Handling Plant 3 WWTP Mining Leases ML284SA and ML249SA NEWMAN WA 6753 As defined by the Premises map attached to the Revised Works Approval
Date of Report	3 September 2020
Decision	Revised works approval granted

Michael Greenslade

Digitally signed by Michael Greenslade
Date: 2020.09.03 16:04:23 +08'00'

A/MANAGER WASTE INDUSTRIES
REGULATORY SERVICES

An officer delegated by the CEO under section 20 of the EP Act

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1. Decision summary

Works approval W6327/2019/1 is held by BHP Billiton Iron Ore Pty Ltd (works approval holder) for the Ore Handling Plant 3 waste water treatment plant (WWTP) (the Premises), located at Mining Area C, mining leases ML281SA and ML249SA Newman WA.

This amendment report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges during the construction and operation of the Premises. As a result of this assessment, revised works approval W6327/2019/1 has been granted.

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://www.der.wa.gov.au.

2.2 Amendment summary

The works approval holder was granted works approval W6327/2019/1 on 11 March 2020 for the construction of a C50K Biomax WWTP and associated irrigation field at the Ore Handling Plant 3 (OHP3) at Mining Area C operations.

Following the grant of the works approval the works approval holder was advised by the WWTP vendor that the treated waste water quality outlined in the original works approval application supporting documents (and conditioned within the works approval) cannot be achieved by the C50k Biomax unit.

In addition, the potential future use of the WWTP has changed and therefore a possible increase in the maximum throughput for the system may also occur.

As a result, on 10 June 2020, the works approval holder submitted an application to the department to amend Works Approval W6327/2019/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- Amend the water quality limits in Condition 1, Table 1, point (e);
- Add a second stage of construction to the irrigation field (Condition 1, Table 1, points (i) to (p)) to enable the facility to be expanded to the full capacity of the Biomax (50 m^3/day) should this be required in the future; and
- Change “sub-surface drippers” to “sub-soil drippers” in Condition 1, Table 1, point (i).

As a result of these requests the approved throughput capacity of the WWTP will also be amended.

Table 1 below outlines the proposed throughput capacity changes to the existing works approval.

Table 1: Proposed throughput capacity changes

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
85	43.48 m^3/day	50 m^3/day	The works approval holder is proposing to expand the irrigation field to cater for an increase in throughput of the WWTP to its full design capacity of 50 m^3/day.

2.2.1 Change in treated water quality

The vendor supplying and installing the OHP3 WWTP has advised the works approval holder that the treated water quality specified in the conditions of the existing works approval cannot be achieved with the current WWTP design. The current WWTP design can produce the revised expected water quality specified within Table 2.

Table 2: Expected water quality for the Biomax package WWTP

Parameter	Original Expected Water Quality[1]	Revised Expected Water Quality	Guideline Water Quality[2]
Biological Oxygen Demand (BOD5)	3.2 to 10.1 mg/L	20	20 to 30 mg/L
Total Suspended Solids (TSS)	14.3 to 20.9 mg/L	30	25 to 40 mg/L
(Total Thermotolerant Coliforms (TTCs)	< 10 org/100mL	< 10 org/100mL	105 to 106 org/100mL
Total Nitrogen (TN)	0 to 10 mg/L	20	20 to 50 mg/L
Total Phosphorus (TP)	4.5 mg/L	6	6 to 12 mg/L

The new waste water quality values still comply with the standards outlined within the *ANZECC Guidelines for Sewage Systems – Effluent Management (1997).*

The irrigation field approved under the existing works approval is 5,120 m^2 in size. This was to cater for 35.4 kL/day with a 20% buffer giving a total approved WWTP throughput of 43.48 m^3/day. This proposal was in accordance with the nutrient loading rates outlined within the Water Quality Protection Note 22 – Irrigation with Nutrient- Rich Wastewater (Department of Water, 2008) (WQPN 22).

In order to meet WQPN 22 guidelines (for a 5,120 m^2 irrigation field) with the revised expected water quality, the approved discharge to this irrigation field will need to be dropped from 43.48 m^3/day to 28 m^3/day. DWER's calculations confirm that the field size of 5,120 m^2 is the minimum size necessary for the revised quality and proposed discharge rate of 28 m^3/day.

2.2.2 Irrigation Field Expansion as Stage 2

The works approval holder has identified that additional future facilities may be plumbed in to the OHP3 WWTP which will increase the expected treated waste water discharged. To accommodate these potential future increases in discharge volume the works approval holder is seeking to add a second stage to the construction of the irrigation field to increase it from 5,120 m^2 to a total of 9,125 m^2 (increase of 4,005 m^2). This will ensure that if the WWTP was operating at full capacity (50 m^3/day) the irrigation field would be sufficiently sized to accommodate the discharge (using the revised expected water quality values) to maintain compliance with WQPN22 nutrient loading guidelines (480 kg/ha/yr of Nitrogen and 120 kg/ha/yr for Phosphorous). DWER's calculations confirm that the total field size of 9,125 m^2 is the minimum size necessary for the revised quality and proposed discharge rate of 50 m^3/day.

The works approval holder intends to construct, commission and operate Stage 1 of the irrigation field prior to the construction of the Stage 2 irrigation field.

Figure 1 below shows the location and layout of the WWTP and irrigation fields for each stage of construction.

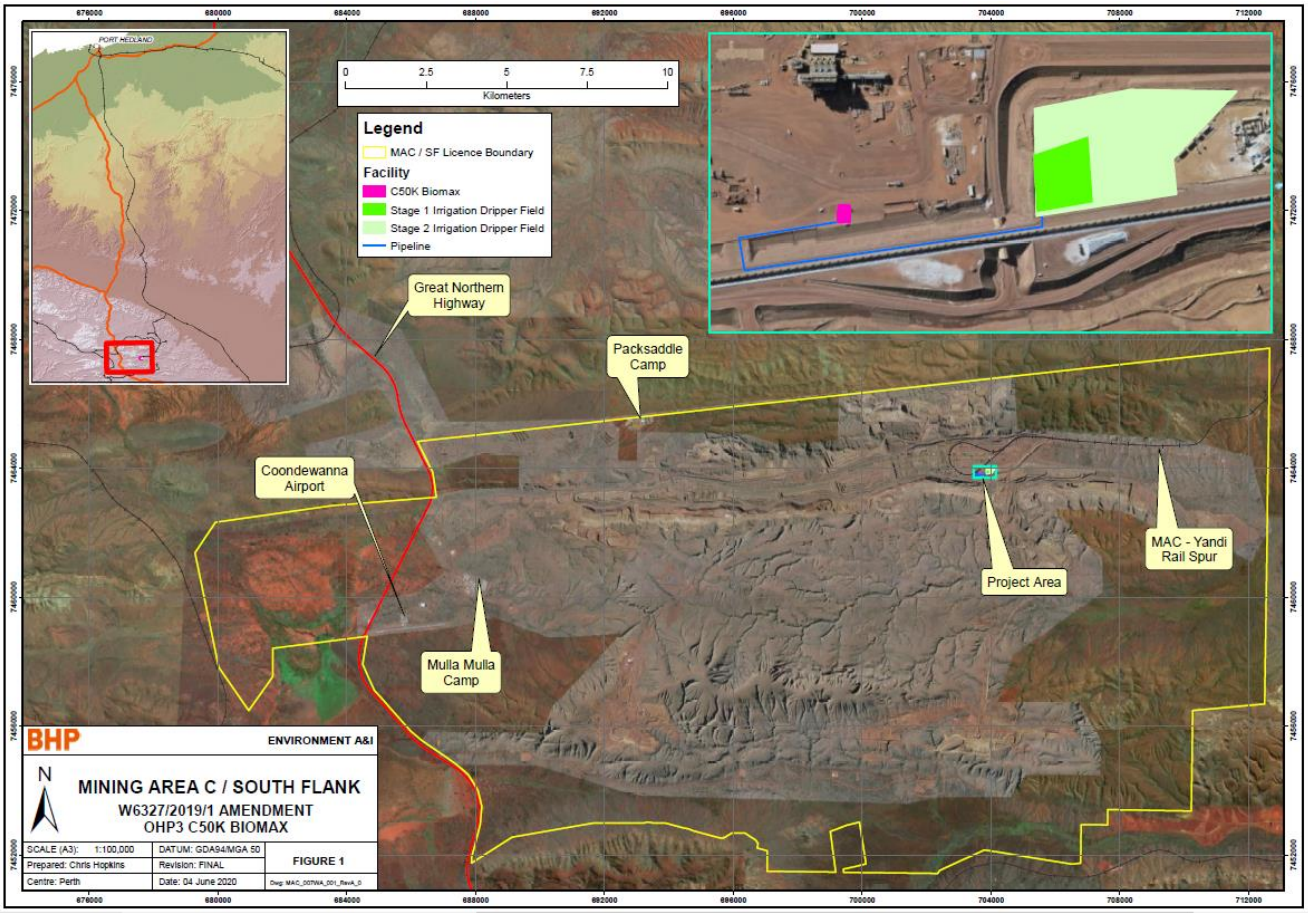

Figure 1: Location of WWTP and irrigation field

2.2.3 Infrastructure to be constructed at each stage

The amendments to the infrastructure and equipment to be installed under the works approval are listed under Stage 2 of construction in Table 3 below.

Table 3: Infrastructure to be installed at each stage of construction

Ref	Infrastructure or Equipment	Site Layout Plan reference (Figure 1)
Stage 1 of construction (already approved under W6327/2019/1)		
1	Packaged C50k Biomax WWTP with capacity of 50 m^3/day, consisting of an anaerobic chamber, aerobic chamber, clarification chamber, disinfection chamber and pump-out chamber. Packaged WWTP will include alarms to provide warning of the failure of the air compressor and discharge pump. WWTP to have approximately two days of in build storage to prevent overflow in the event of failure of discharge pump.	C50K Biomax (pink)

2	Irrigation spray field 5,120 m^2 in size; Sub-soil drippers to be installed; 10 cm earthen bund installed around perimeter of irrigation spray-field; and Fence with safety signage installed to deter access. Field to be fenced and surrounded by a 10 cm earthen bund.	Stage 1 Irrigation Dripper Field (green)
3	560 m long pipeline to transport effluent from the WWTP to the irrigation spray field.	Pipeline (blue)
Stage 2 of construction (the subject of this amendment)		
1.	Expand irrigation spray field constructed under stage 1 by 4,005 m^2 to a total area of 9,125 m^2; Sub-soil drippers to be installed; 10cm earthen bund installed around perimeter of irrigation spray-field; and Fence with safety signage installed to deter access.	Stage 2 Irrigation Dripper Field (green)

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 *Guidance Statement: Risk Assessments* (DER 2017).

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 4 below.

Table 4 also details the control measures the Works Approval Holder has proposed to assist in controlling these emissions, where necessary.

Table 4: Works Approval Holder controls

Source	Emission	Potential Pathway	Proposed controls
Construction of stage 2 irrigation field	Dust	N/A – no pathway to receptors due to distance	• Location of Premises is significant distance from receptors. • Water carts will be used to wet down surfaces during construction
	Noise	N/A – no pathway to receptors due to distance	• Location of premises is significant distance from receptors.

Commissioning of the WWTP (increased throughput to 50 m^3/day)	Discharge of partially treated wastewater to land	Direct discharge to land	• Discharge of untreated water to the irrigation field is not expected during commissioning. • Monthly validation monitoring of effluent during the 3 month commissioning period. • System will be tested for leaks prior to commissioning by running raw water through the system.
Operation of the WWTP at increase throughput of 50 m^3/day	Odour	N/A – no direct pathway to receptors due to distance	• Packaged WWTP with enclosed tanks. • Location of the Premises is a significant distance from receptors. • Sludge will be removed when required by a licensed contractor and disposed of to an authorised landfill in accordance with the *Environmental Protection (Controlled Waste) Regulations 2004*. • Effluent treatment to a standard suitable for irrigation based on the Department's Water Quality Protection Note 22, which may minimize concentration of odorous compounds.
	Spills/ unintended releases of untreated wastewater	Direct discharge to land	• Location of premises on low permeability geology with a significant separation from groundwater. • WWTP pump-out tank will be fitted with a tank high level alarm to enable the system to be managed to prevent the facility overtopping. • Pipes carrying treated wastewater will be buried below ground to minimize disturbance of pipeline. • Daily inspection of WWTP
Operation of the expanded irrigation spray-field (9,125 m^2)	Discharge of treated wastewater to land	Direct discharge to land A pathway for treated wastewater to groundwater has not been considered due to the distance to groundwater (70mbgl)	• Irrigation spray-field sited in an area with high evaporation rate which will reduce likelihood of pooling/ waterlogging. • Irrigating over an area of sufficient size (as determined by Department's Water Quality Protection Note 22) to prevent excess nutrient loading. • Flow meter installed at discharge pipe to ensure approved volume to irrigation field is not exceeded. • Irrigation area surrounded by a 10 cm earthen bund to minimize runoff. • Quarterly monitoring of effluent quality to ensure it meets expected nutrient concentrations. • Stock fencing around the irrigation area

3.1.2 Receptors

In accordance with the *Guidance Statement: Risk Assessment* (DER 2017), 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 5 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 *(Guidance Statement: Environmental Siting* (DER 2016)).

Table 5: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	**Distance from prescribed activity**
Rio Tinto Iron Ore's Hope Downs Accommodation camp	14 km south of the Project area.
Juna Downs Pastoral Station Homestead	~40 km away from activities.
Marillana Pastoral Station	~50 km away from activities.
Town of Newman	The Premises is 90 km north west of Newman.
Environmental receptors	**Distance from prescribed activity**
Weelie Wolli Creek PEC – Priority 1	Project area is located 18 km west of the Weelie Wolli Creek PEC.
Coondewanna Flats PEC – Priority 3	Project area is located 20 km east of the Coondewanna Flats PEC.
Groundwater	Premises is located in the Pilbara Groundwater Area, proclaimed under the RIWI Act. Depth to groundwater is approximately 70 meters below ground level (mbgl). Groundwater is hypersaline.
Threatened flora	No species listed under the EPBC Act or the *Wildlife Conservation Act 1950* have been sighted within the prescribed premises. Twelve flora species listed as priority flora by the Department of Biodiversity, Conservation and Attractions have been recorded as occurring within the premises boundary: • *Acacia bromilowiana* (Priority 4) • *Aristida jerichoensis supsp. spinulifera* (Priority 3). • *Aristida lazaridis* (Priority 2). • *Eremophila magnifica subsp. magnifica* (Priority 4). • *Goodenia nuda*: Priority 4. • *Grevillea saxicola* (Priority 3). • *Nicotiana umbratica* (Priority 3). • *Rhagodia sp. Hamersley* (M. Trudgen 17794) (Priority 3). • *Rostellularia adscendens var. latifolia* (Priority 3). • *Sida sp. Barlee Range* (S. van Leeuwen 1642) (Priority 3). • *Themeda sp. Hamersley Station* (M.E. Trudgen 11431): Priority 3. • *Triodia sp. Mt Ella* (M.E. Trudgen 12739) (Priority 3).

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guidance Statement: Risk Assessments* (DER 2017) 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 in-complete 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 6.

The revised works approval W6327/2019/1 that accompanies this amendment report authorises construction, environmental commissioning and time-limited operations. The conditions in the revised works approval 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 OHP3 WWTP. 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 6. Risk assessment of potential emissions and discharges from the Premises during construction, commissioning and operation

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**				
Construction								
No emissions with a pathway to receptors								
Commissioning and Operation (including time-limited operations allowed under the works approval)								
Commissioning and operation of WWTP (at increased throughput of 50 m^3/day and with different effluent quality) and discharge to expanded stage 2 irrigation field.	Discharge of untreated / partially treated wastewater to land	Direct discharge due to spills or unintended release of untreated wastewater resulting in effluent high in nutrients impacting the health of surrounding soil.	Surrounding soil. WWTP is within a cleared area and therefore vegetation is unlikely to be affected.	As described in section 3.1.1	C = Minor L= Unlikely **Medium risk**	Y	Condition 5 operational controls during commissioning Condition 6 authorised discharge points during commissioning Condition 13 operational controls during time limited operations. Condition 14 authorised discharge points.	These existing conditions have been amended to include the changes proposed by the Works Approval Holder. The existing controls apply to Stage 1 and 2 of the irrigation spray field construction, commissioning, and time limited operation. No additional regulatory controls are required.
	Discharge of treated wastewater to land (unintentional)	Direct discharge due to pipeline rupture or leak resulting in treated effluent being released to land which may impact the health of surrounding soils.	Surrounding soil. WWTP is within a cleared area and therefore vegetation is unlikely to be affected.	As described in section 3.1.1	C = Minor L= Unlikely **Medium risk**	Y	Condition 5 operational controls during commissioning. Condition 6 authorised discharge points during commissioning Condition 13 operational controls during time limited operations. Condition 14 authorised discharge points.	These existing conditions have been amended to include the changes proposed by the Works Approval Holder. The existing controls apply to Stage 1 and 2 of the irrigation spray field construction, commissioning, and time limited operation. No additional regulatory controls are required.
	Discharge of treated wastewater to land via irrigation field	Direct discharge to land resulting in pooling or waterlogging of soils within irrigation area	Surrounding soil. WWTP is within a cleared area	As described in section 3.1.1	C = Minor L= Possible **Medium risk**	Y	Condition 1 infrastructure and equipment specifications Condition 5 operational controls during	These existing conditions have been amended to include the changes proposed by the Works Approval Holder. The existing controls apply to Stage 1 and 2 of the irrigation spray field construction, commissioning, and time limited

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**				
	(increase in size to 9,125m^2)	causing runoff into surrounding areas (overland flow)	and therefore vegetation is unlikely to be affected.				commissioning Condition 13 operational controls during time limited operations.	operation. No additional regulatory controls are required. The Applicant's controls (bunding around stage 2 irrigation field and adequate sizing of field) are considered appropriate to mitigate this risk event in most circumstances, however during and following heavy rainfall it is possible that treated effluent could pool on the ground surface leading to runoff into the surrounding area. The Applicant has stated that discharge to the spray-field will occur only during shut down events Ore Handling Plant 3 which are likely to be rescheduled if extreme weather was forecasted. The applicant will aim to limit discharge to the irrigation field during and after heavy weather events.
		Direct discharge to land causing nutrient loading of soils within spray field due to excess disposal of treated wastewater	Surrounding soil. WWTP is within a cleared area and therefore vegetation is unlikely to be affected.	As described in section 3.1.1	C = Moderate L= Unlikely **Medium risk**	Y	Condition 1 infrastructure and equipment specifications Condition 5 operational controls during commissioning Condition 13 operational controls during time limited operations. Condition 15 monitoring of emissions during time limited operations.	Existing conditions 1, 5 and 13 have been amended to include the changes proposed by the Works Approval Holder. The existing controls apply to Stage 1 and 2 of the irrigation spray field construction, commissioning, and time limited operation. Condition 15 of the existing Works Approval requires quarterly monitoring during time limited operations, and this condition is being retained in the Revised Works Approval. No additional regulatory controls are required. Review of the quality of the treated wastewater will occur at the licensing stage to ensure that nutrient loading rates within the irrigation area meet the requirements of WQPN 22.

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guidance Statement: Risk Assessments* (DER 2017).

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

Table 7: Consultation

Consultation method	Comments received	Department response
Department of Health advised of proposal on 22 July 2020	No comments were received	N/A
Works Approval Holder was provided with draft amendment on 25 August 2020	Minor comments received on 1 September 2020 regarding typographical errors. The remaining comment period was waived.	The Works Approval was updated to correct the errors identified.

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 8 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 8: Summary of works approval amendments

Condition no.	Proposed amendments
Prescribed premises category table on first page	Increase of assessed production capacity to 50 m^3/day.
1	Change water quality discharge limits for 5-day Biochemical Oxygen Demand, Total suspended solids, Total nitrogen and Total phosphorus as proposed by the Works Approval Holder.
	Change wording from ‘sub-surface soil drippers’ to ‘sub-soil drippers’.
	Change to two construction stages for irrigation spray-field and include design and installation requirements for Stage 2 that are consistent with existing requirements for Stage 1
5	Change to two construction stages for irrigation spray-field and include commissioning requirements for Stage 2 that are consistent with existing requirements for Stage 1.
6	Change wording from ‘sub-surface soil drippers’ to ‘sub-soil drippers’.
13	Change water quality discharge limits for 5-day Biochemical Oxygen Demand, Total suspended solids, Total nitrogen and Total phosphorus as proposed by the Works Approval Holder.
	Change to two construction stages for irrigation spray-field and include time limited operational requirements for Stage 2 that are consistent with existing requirements for Stage 1.

14	Change wording from ‘sub-surface soil drippers’ to ‘sub-soil drippers’.
Prescribed premises boundary map in Schedule 1	Updated map to include Stage 2 of the irrigation spray-field.

References

1. Australian and New Zealand Environment and Conservation Council (ANZECC) 1997, *Australian Guidelines for Sewerage Systems – Effluent Management*, National Water Quality Management Strategy, Commonwealth of Australia, Australia.
2. Department of Environment Regulation (DER) 2016, *Guidance Statement: Environmental Siting*, Perth, Western Australia.
3. DER 2017, *Guidance Statement: Risk Assessments*, Perth, Western Australia.
4. DER 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
5. Department of Water (DOW) 2008, Water Quality Protection Note 22 – Irrigation with Nutrient- Rich Wastewater, Perth, Western Australia.

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY					
Application type					
Works approval	☐				
Licence	☐	Relevant works approval number:		None	☐
		Has the works approval been complied with?		Yes ☐ No ☐	
		Has time limited operations under the works approval demonstrated acceptable operations?		Yes ☐ No ☐ N/A ☐	
		Environmental Compliance Report submitted?		Yes ☐ No ☐	
		Date Report received:			
Renewal	☐	Current licence number:			
Amendment to works approval	☒	Current works approval number:	W6327/2019/1		
Amendment to licence	☐	Current licence number:			
		Relevant works approval number:		N/A	☐
Registration	☐	Current works approval number:		None	☐
Date application received		10/6/2020			
Applicant and Premises details					
Applicant name/s (full legal name/s)		BHP Billiton Iron Ore Pty Ltd			
Premises name		Mining Area C			
Premises location		Mineral Lease 281SA			
Local Government Authority		Shire of East Pilbara			
Application documents					
HPCM file reference number:		DER2019/00568~1			
Key application documents (additional to application form):		Attachment 8 – Supporting document for amendment to W6327/2019/1 (DERDT293093)			
Scope of application/assessment					

Summary of proposed activities or changes to existing operations.	**Works approval amendment** Construction of OHP3 C50K Biomax WWTP and irrigation spray field. **2.1. Change in Treated Waste Water Quality** Usage of the facility will be intermittent as it will be used to support additional workforce required during shut downs for OHP3. In addition the vendor has advised BHP that the treated waste water quality outlined in the works approval application cannot be achieved based on the current plant design. The revised design effluent quality values of the package WWTP will still meet the standards in the *Guidelines for Australian Guidelines for Sewage Systems – Effluent Management* (ANZECC, 1997) (**Table 2**). The current area of the proposed irrigation sprayfield is sufficient to manage the expected volume of treated waste water from the shutdown facilities and remain compliant to *Water Quality Protection Note 22 – Irrigation with Nutrient-Rich Wastewater* (Department of Water, 2008) (WQPN 22). **Table 2: Expected Water Quality for the Biomax package WWTP under standard testing conditions**

Parameter	Original Expected Water Quality[1]	Revised Expected Water Quality	Guideline Water Quality[2]
Biological Oxygen Demand (BOD5)	3.2 to 10.1 mg/L	20	20 to 30 mg/L
Total Suspended Solids (TSS)	14.3 to 20.9 mg/L	30	25 to 40 mg/L
(Total Thermotolerant Coliforms (TTCs)	< 10 org/100mL	< 10 org/100mL	105 to 106 org/100mL
Total Nitrogen (TN)	0 to 10 mg/L	20	20 to 50 mg/L
Total Phosphorus (TP)	4.5 mg/L	6	6 to 12 mg/L

2.2. Stage 2 Irrigation Field Expansion

BHP has also identified that additional future facilities may also be plumbed into the Biomax which would increase the expected water volumes to 43,480 L/day. To accommodate these potential future increases in volume BHP is seeking to add a second stage to the construction of the irrigation field to increase it by 4,005 m² to a total of 9,125.0 m² (**Figure 1**). This will be sufficient to enable the facility to operate at full capacity of the Biomax (50,000 L/day) at the proposed new water quality values (**Table 2**) while maintaining compliance to WQPN 22.

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: premises – (a) On which sewage is treated (excluding septic tanks); or (b) From which treated sewage is discharged onto land or into waters.	43.48 m^3/day	50 m^3/day Stage 1: 28 m_3/day Stage 2: 50m_3/day

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 ☐ No ☒	Referral decision No: Managed under Part V ☒ Assessed under Part IV ☐
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes ☒ No ☐	Ministerial statement No: 1072 issued 20 Feb 2018 EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?	Yes ☐ No ☒	Reference No: No but the larger mine site has a strategic environmental assessment

		approval notice date 19 June 2017
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes ☐ No ☒ Not required	Certificate of title ☐ General lease ☐ Expiry: Mining lease / tenement ☐ Expiry: Other evidence ☐ Expiry:
Has the applicant obtained all relevant planning approvals?	Yes ☐ No ☐ N/A ☒	Approval: Expiry date: If N/A explain why? Is subject to a state agreement Act – Iron Ore (Mount Goldsworthy) Agreement Act 1964
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes ☒ No ☐ N/A ☒	CPS No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes ☐ No ☒	Application reference No: N/A Licence/permit No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes ☐ No ☒	Application reference No: Licence/permit No: Licence / permit not required.
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes ☐ No ☒	Name: N/A Type: Proclaimed Groundwater Area = Pilbara Groundwater Area Has Regulatory Services (Water) been consulted? Yes ☐ No ☒ N/A ☐ Regional office: North West
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes ☐ No ☒	Name: N/A Priority: P1 / P2 / P3 / N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to WQPN 25)? Yes ☐ No ☐ N/A ☒

Is the Premises subject to any other Acts or subsidiary regulations (e.g. *Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx*)	Yes ☒ No ☐	Is subject to a state agreement Act – Iron Ore (Mount Goldsworthy) Agreement Act 1964 DoH approval required.
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes ☐ No ☒	
Is the Premises subject to any EPP requirements?	Yes ☐ No ☒	
Is the Premises a known or suspected contaminated site under the *Contaminated Sites Act 2003*?	Yes ☐ No ☒	Classification: N/A Date of classification: N/A