Amendment Report

Application for Licence Amendment

Part V Division 3 of the Environmental Protection Act 1986

Licence Number L8621/2011/1

Licence Holder Roy Hill Iron Ore Pty Ltd

ACN 123 722 038

File Number 2011/009784-1~15

Premises Roy Hill Iron Ore Mine

M46/518 and M46/519 NEWMAN WA 6753

As depicted in Schedule 1 of the licence

Date of Report 16 July 2021

Decision Revised licence granted

MANAGER, RESOURCE INDUSTRIES REGULATORY SERVICES

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

Table of Contents

1.	Decis	sion summary1							
2.	Scop	oe of assessment	1						
	2.1	Regulatory framework	1						
	2.2	Amendment summary	1						
	2.3	Other Approvals	2						
		2.3.1 Part IV of the EP Act	2						
		2.3.2 DMIRS Mining Proposal	2						
3.	Risk assessment								
	3.1	Source-pathways and receptors	3						
		3.1.1 Emissions and controls	3						
		3.1.2 Receptors	6						
	3.2	Risk ratings	9						
4.	Cons	sultation	12						
5 .	Cond	clusion	12						
	5.1	Summary of amendments	12						
Refe	rence	es	15						
Appe	endix	1: Roy Hill Operating Procedures Summary	16						
Appe	endix	2: Application validation summary	18						

1. Decision summary

Licence L8621/2011/1 is held by Roy Hill Iron Ore Pty Ltd (Licence Holder)(Roy Hill) for the Roy Hill Iron Ore Mine (the Premises), located on Mining Tenements M46/518 and M46/519, Newman Western Australia.

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, Amended Licence L8621/2011/1 will be granted.

The Amended Licence issued consolidates and supersedes the existing Licence previously granted in relation to the Premises. The Amended Licence will be 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 Amendment summary

On 15 April 2021, the Licence Holder submitted an application to the department to amend Licence L8621/2011/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The amendment is for the installation of a new a new Direct Ship Ore (DSO) crushing and screening facility at the Premises. The new DSO facility will be built in the vicinity of the mine pit area (Refer to Figure 1), and will replace the existing DSO crushing and screening facility. The plant will relocate from time to time depending on where ore body source material is located. The plant is expected to operate for approximately 20 years.

The new DSO facility will process up to 4.5 million tonnes per annum (mtpa) of material by crushing ore and screening ultrafine high iron ore content material within the ore body. Screened DSO material is transferred directly to the Process Plant area where it is blended into the fine stockpiles. The new DSO facility will be powered by diesel gensets.

Following commissioning of the new facility the existing DSO Screening facility will be demolished. The existing crushing and screening plant was approved under Licence Amendment 3 – November 2017.

This amendment is limited only to changes to Category 5 (Processing or beneficiation of metallic or non-metallic ore) activities for the existing Licence. No changes to the aspects of the existing Licence relating to Category 6, 12, 52, 54, 57, 64, 73 and 85B have been requested by the Licence Holder. The current assessed throughput capacity for Category 5 will not change as a result of this amendment.

2.3 Other Approvals

2.3.1 Part IV of the EP Act

The Premises is subject to Ministerial Statements 824 (Stage 1) and 829 (Stage 2).

In summary, Ministerial Statement 824 addressed the following potential impacts from the proposed activities on the premises:

- groundwater abstraction from the Stage 1 and Stage 2 mine areas potentially impacting groundwater dependent vegetation.
- surface water flows and diversion structures potentially impacting Mulga and riparian vegetation, such that no diversions, other than those included in Figure 4-8 of the Roy Hill Iron Ore Mining Project, Stage 1 Public Environmental Review, Hancock Prospecting Pty Ltd, June 2009 were to be constructed.
- short-range endemic invertebrate impacts, and measures to be implemented to avoid disturbance of areas where *Missulena* sp, *Synothele* 'MYG127', *Aganippe* 'MYG126', *Idiommata* 'MYG128' and *Beierolpium* have been recorded (i.e installation and maintenance of fencing and signage around areas specified to prevent access by humans or machinery).

Ministerial Statement 829 addressed the following potential impacts from the proposed activities on the premises:

- groundwater abstraction from the Stage 2 mine areas and borefield potentially impacting groundwater dependent vegetation.
- conservation significant fauna located within the alignment of the pipeline proposed.
- short-range endemic invertebrate impacts within the borefield and pipeline route proposed.
- surface water flows and potential impacts to Mulga and riparian vegetation to ensure that surface water diversion structures do not adversely affect Mulga and riparian vegetation to be retained in the proposal area and that no diversions, other than the following are constructed:
 - those diversions included in Figure 15 of the Roy Hill 1 Iron Ore Mining Project, Stage 2 Environmental Referral. Prepared by ENVIRON for Roy Hill Iron Ore Pty Ltd. October 2009; and
 - 2. those diversions required around the evaporation pond to manage surface water flows.
- surface water and groundwater quality impacts from run-off and seepage from the waste fines and evaporation pond storage facilities, and from salt encapsulation.

2.3.2 DMIRS Mining Proposal

The DSO Screening facility has been assessed by the Department of Mines, Industry Regulations and Safety (DMIRS) as part of the overall Mining Proposal for Mining Tenements M46/518 and M46/519.

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 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 1 below. Table 1 also details the proposed control measures the Licence Holder has proposed to assist in controlling these emissions, where necessary.

Table 1: Potential emissions and Licence Holder controls

Emission	Sources	Potential pathways	Proposed controls					
Construction	Construction							
Dust	Vehicle movements, earthworks Construction of	Air/windborne pathway	Plant will be constructed within existing cleared mine pit areas, reducing the potential for vegetation and priority flora to be impacted.					
	stormwater diversion structures		Daily and continuous inspection for dust emissions Water cart					
			Implement dust suppression measures where dust generation is visible, except during topsoil clearing.					
			Adhere to all vehicle speed limits, use existing tracks and reduce vehicle speeds on haul roads, work sites and camp sites where necessary to minimise dust emissions.					
			Water for the construction and operation of the DSO screening facility will be sourced from the existing dewatering and production borefields.					
Contaminated stormwater or soil	Hydrocarbon spills during refuelling	Overland/Surface water run off Direct discharge	All spills will be managed in accordance with the Roy Hill Spill Response Procedure (OP-PRO-00275) ¹ .					
(Hydrocarbons)	s) activities	to land	Any soil contaminated by hydrocarbons will be taken to the bioremediation facility for treatment or disposed off-site.					
			Groundwater level and quality monitoring will continue as per the Roy Hill Iron Ore Water Management Plan (OP-PLN-00300)					

Emission	Sources	Potential pathways	Proposed controls
Noise	Vehicle movements	Air/windborne pathway	N/A
Commissioning	g and Operation		
Dust	Crushing and screening of ore material, vehicle movements, lift-	Air/windborne pathway	Plant will operate within existing cleared mine pit areas, reducing the potential for vegetation and priority flora to be impacted.
	off from stockpiles and/or		Water sprays at transfer points
	stored product, transfer points		Water sprays and water carts to minimise dust emissions from DSO material stockpiles
			Roy Hill Dust Management Procedure OP-PRO-00180.
			Conveyors and loading bin fitted with skirt module, internal/external dust curtains, primary and secondary scrapers, wind guards, surge bins, water sprayers and dust collectors
			Daily/ continuous inspection for dust emissions from the Crushing and Screening Plant activate additional dust suppression, if required.
			Limit the number and height of stockpiles.
			Adhere to speed limits, use existing tracks and reduce vehicle speeds on haul roads, work sites and camp sites where necessary.
			Water for the construction and operation of the screening facility sourced from the existing dewatering/ production borefields
			Monthly inspection of dust control equipment
Noise	Crushing and screening of ore material, vehicle movements, operation of diesel generators	Air/windborne pathway	N/A - as the DSO crushing and screening plant will be located within an existing disturbed area of the premises there are no identified receptors requiring additional noise controls.

Emission	Sources	Potential pathways	Proposed controls
Contaminated stormwater or soil (Hydrocarbons and chemicals)	Hydrocarbon spills during refuelling activities Chemical spills	Overland/Surface water run off Direct discharge to land Infiltration to groundwater	Stormwater diversion structures around the DSO facility to divert stormwater away from the operational area. All surface water collected within the DSO screening facility will be retained within the designated DSO screening facility area. All spills will be managed in accordance with the Roy Hill Spill Response Procedure (OP-PRO-00275)¹. The DSO screening facility will be managed in accordance with Roy Hill Hazardous Materials Management Procedure (OP-PRO-00289)¹ and Roy Hill Water Discharge Management Procedure (OP-PRO-00178)¹. Vegetation health is monitored across the Mine in accordance RHIO Vegetation Environmental Management Plan (OP-REP-00344). Roy Hill Chemical Management Plan (OP-REP-00344). Groundwater level and quality monitoring will continue as per the Roy Hill Iron Ore Water Management Plan (OP-PLN-00300)
Sediment- laden stormwater	Dust emissions Fines	Air/windborne pathway Overland runoff/surface water run off	Roy Hill Iron Ore Water Management Plan (OP-PLN-00300) and Roy Hill Water Discharge Management Procedure (OP-PRO-00178) ¹ . Stormwater diversion structures around the DSO facility to divert stormwater away from the operational area.
		are further detailed	All surface water collected within the DSO screening facility will be retained within the designated DSO screening facility area.

Note 1. Roy Hill Operating Procedures are further detailed in Appendix 1

3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2017), the Delegated Officer has excluded employees, visitors and contractors of the Licence Holder's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 2 below provides a summary of potential environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (Guideline: Environmental siting (DWER 2016)).

Due to the distance from the Premises, the Roy Hill Homestead (6km away), Fortescue Metals Christmas Creek mining camp (20km away) are not considered sensitive receptors for this amendment application.

Table 2: Sensitive environmental receptors and distance from prescribed activity

Environmental receptors	Distance from prescribed activity
Ephemeral creeks The premises is drained by several ephemeral creeks, including No Name	A significant stream, Kulbee Creek, runs through the middle of the proposal area in a NE to SW direction towards the Fortescue River.
Creek, which generally flow in a south westerly direction towards the Fortescue River and Marsh.	A major river (Kulbinah Creek) runs through the southern portion of the premises and intersects the proposal area, also connecting to the Fortescue River.
	No Name Creek lies to the northwest.
	The mine pit areas are located within the No Name Creek Mine, Mine Central, Kulbee Creek Mine, Kulbee Creek Upper, Kulbee Creek Tributary (South East), Kulbee Creek Tributary (east), Golf 201, Christmas Creek, Gold 203, Sierra 101 – 104, Sierra 400, Eastern Mine and Kulkinbah Creek catchments (Roy Hill 2021a).
Fortescue River	Within the premises boundary (southern portion) and adjacent to the premises boundary
Groundwater Pilbara, Hamersley – Fractured Rock	Depth to groundwater is approximately 30m below ground level.
groundwater aquifer	Note: Given the depth to groundwater, the groundwater aquifer is not considered to be impacted by the DSO crushing and screening plant operation.

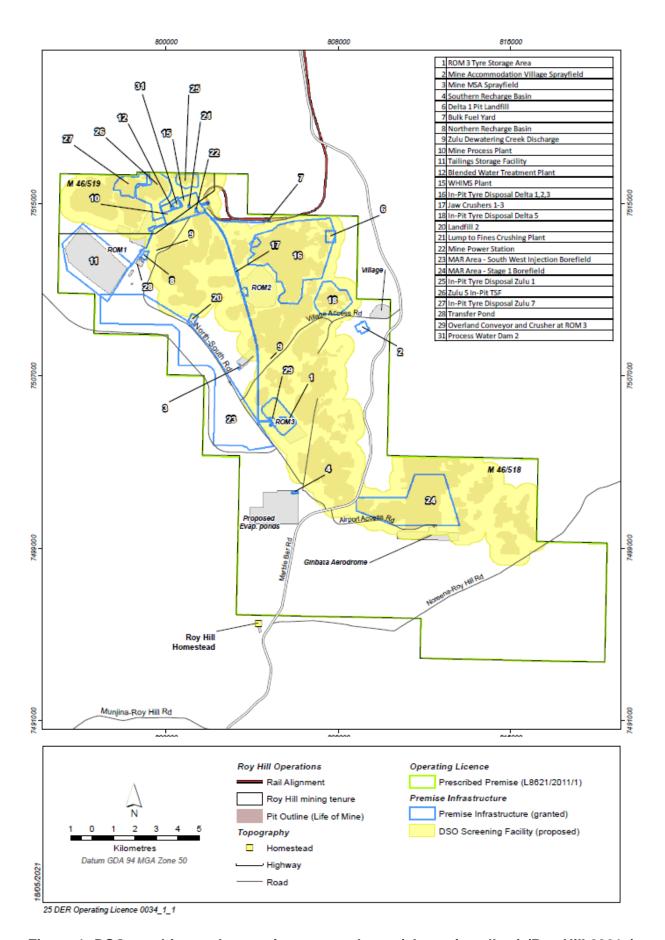


Figure 1: DSO crushing and screening proposal area (shown in yellow) (Roy Hill 2021a)

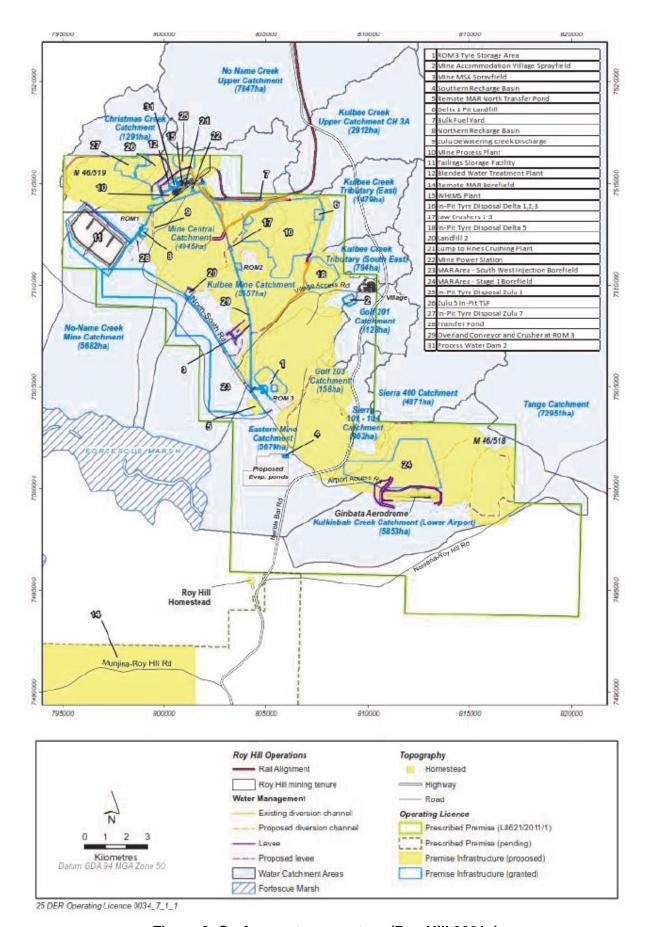


Figure 2: Surface water receptors (Roy Hill 2021a)

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 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 incomplete they have not been considered further in the risk assessment.

Where the Licence Holder has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the Licence Holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the licence as regulatory controls.

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

The Amended Licence L8621/2011/1 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises.

The conditions in the Amended Licence have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

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

Risk Event	Risk Event					Licence			
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls	
Construction									
Construction and	Dust	Air/windborne pathway causing impacts to vegetation (dust deposition) and amenity	Remnant Vegetation	Refer to Section 3.1	C = Slight L = Possible Low Risk	Yes	Condition 13	N/A	
placement of crusher, screen and associated equipment including vehicle movements (reversing beepers). Construction of stormwater diversion channels	Hydrocarbon or chemical contaminated stormwater or soil	Discharge to land causing contamination of soil Discharge to surface water or overland runoff causing contamination of surface water bodies	Soil Tributaries to the Fortescue River	Refer to Section 3.1	C = Slight L =Unlikely Low risk	Yes	Condition 13	N/A	
Commissioning and Opera	Commissioning and Operation								
Operation of the crushing and screening plant, movement of ore on conveyors, stackers and stockpiles	Dust	Air/windborne pathway causing impacts to vegetation and amenity	Remnant Vegetation	Refer to Section 3.1	C = Minor L = Possible Medium Risk	Yes	Condition 13	N/A	

Risk Event	Risk Event							Justification for	
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	Holder's controls sufficient?	Conditions ² of licence	additional regulatory controls	
Operation of the crushing and screening plant, movement of ore on conveyors, stackers and stockpiles	Sediment- laden stormwater	Surface/Overland water run off causing erosion and scouring of ground. Direct discharge causing turbidity, sedimentation and contamination of the Fortescue River and tributaries	Soil Ephemeral Creeks, tributaries to the Fortescue River	Refer to Section 3.1	C = Minor L = Possible Medium Risk	Yes	Condition 13	N/A	
	Hydrocarbon or chemical contaminated stormwater or soil	Discharge to land causing contamination of soil Discharge to surface water or overland runoff causing contamination of surface water	Soil Tributaries to the Fortescue River	Refer to Section 3.1	C = Slight L =Unlikely Low Risk	Yes	Condition 13	Provisions of the Environmental Protection (Unauthorised discharges) Regulations 2004 apply for certain discharges to the environment, such as hydrocarbons	

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2017).

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

4. Consultation

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

Table 4: Consultation

Consultation method	Comments received	Department response
Shire of East Pilbara advised of the proposal on 17/06/2021 (DWER Record A201809).	Nil	N/A
Department of Planning, Lands and Heritage (Aboriginal Sites) advised of the proposal on 17/06/2021 (DWER Record A2017785).	DPLH responded to the referral on 6 July 2021 (DWER Record A2025188). DPLH advised that "Aboriginal heritage sites are located within tenements M46/518 and M46/519. Furthermore, the DPLH notes that Roy Hill holds valid consents under section 18 of the <i>Aboriginal Heritage Act 1972</i> (AHA) over a portion of M46/518 and M46/519. As such, Roy Hill are advised that if the proposed new DSO is consistent with the Purpose, as described in the section 18 consent letters, the DPLH does not have further comment to make. However, if the installation of a new DSO proposes to impact Aboriginal sites outside of the section 18 consent, Roy Hill are required to seek approval under the AHA."	The Licence Holder should review their Section 18 approvals and liaise with DPLH, if required.
Licence Holder was provided with draft amendment on 1 July 2021 (DWER Record A2022381)	The Licence Holder provided two comments on the draft licence and Amendment Report on 7 July 2020 (DWER Record DWERDT475565), relating to: - Correcting Table 6 of the licence to read '4.5Mtpa' capacity for the DSO crushing and screening plant (was incorrectly written at 4Mtpa); and - Provision of the document number for the premises' Chemical Management Procedure.	Licence and Amendment Report have been updated to reflect these corrections.

5. Conclusion

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

5.1 Summary of amendments

Table 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 Licence as part of the amendment process.

As part of this amendment package the department has updated the licence into the new licence format, which includes:

- revised licence condition numbers;
- the removal of any redundant conditions;
- · realigned condition numbers for numerical consistency; and
- corrected clerical mistakes and unintentional errors.

The full consolidation of licence conditions as they relate to this Amended Licence are detailed in Section 5.1.

Table 5: Summary of licence amendments

Condition no.	Proposed amendments
Front page	Correct Registered Business Address
Condition 13 Table 6	Inclusion of the new DSO crushing and screening plant within the Works Schedule Table, with relevant operating requirements.
Condition 44 Table 21	Inclusion of the reporting of locations and re-locations of the DSO crushing and screening plant within the Annual Environmental Report.
Definitions	New definitions added
Schedule 1	Revised to name and label maps, inclusion of new DSO proposal area
Schedule 2	Revised to emission and monitoring locations
Schedule 3	Updated, previously Schedule 2
Appendix 1	Bore details revised, as required

Table 6 lists the items of the licence that have been consolidated as a result of moving the licence into the new format.

Table 6: Consolidation of licence conditions in this amendment

Existing condition	Condition summary	Revised licence condition	Conversion notes
1.1.1-1.1.4	Interpretation and definitions	N/A Interpretation section, Definitions and Table 1	Redundant conditions. Revised to current licensing format.
1.2.1-1.2.9 Tables 1.2.1- 1.2.3	General conditions Premises operation	Conditions 1-9 Tables 1-3	Revised to current licensing number format.
1.2.10 - 1.2.11 Table 1.2.4- 1.2.5	General conditions Containment Infrastructure	Conditions 10-12 Tables 4-5	New group heading Revised to current licensing number format.
1.2.12 – 1.2.17 Tables 1.2.6 – 1.2.7	General conditions Works Schedule	Conditions 13-17 Tables 6-7	New group heading Revised to current licensing number format.

Existing condition	Condition summary	Revised licence condition	Conversion notes
2.1.1- 2.5.3 Tables 2.2.1- 2.5.2	Emissions and discharges	Conditions 18-26 Tables 8-13	New group heading Revised to current licensing number format.
3.1.1-3.7.1 Table 3.4.1- 3.7.1	Monitoring	Conditions 27-38 Table 9-20	Revised to current licensing number format.
4.1.1	Records and reporting	Condition 39 and 40	Redundant condition. Revised to current licensing format.
4.1.2	AACR	Condition 43	Redundant condition. Revised to current licensing format.
4.1.3	Complaints management	Condition 42	Redundant condition. Revised to current licensing format.
4.1.4	Waste recording	Condition 41	Revised to current licensing number format
4.2.1 Table 4.2.1	AER	Condition 44 and 45, Table 21	Revised to current licensing number format. Inclusion of relocation information for DSO into AER table. Revision of table number references.
4.2.2-4.2.3 Table 4.2.2	Non reporting requirements	Conditions 46 Table 22	Revised to current licensing number format
4.2.4 Table 4.2.4	Notifications	Condition 47 Table 23	Revised to current licensing number format

References

- 1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
- 2. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
- 3. DWER 2020, Guideline: Risk Assessments, Perth, Western Australia.
- 4. Roy Hill Iron Ore Pty Ltd, 2020, *Managed Aquifer Recharge Bore Log Submission December 2020*, Email from Melissa Hobson, 23 December 2020, Roy Hill, Perth (DWER Record DWERDT395997).
- 5. Roy Hill Iron Ore Pty Ltd (Roy Hill) 2021a *Mine Operating Licence Amendment Application (L8621/2011/1) DSO Screening Facility* 2 (OP-APP-00079), Issued 14 April 2021, Roy Hill Iron Ore, Perth (DWER Record A1996823).
- 6. Roy Hill 2021b, *RE: Application Notification- Application for an amendment to Licence L8621/2011/1 Request for Further Information* response, Email from Vlad Rios Vera 19 May 2021, Roy Hill, Perth (DWER Record DWERDT454019).
- 7. Roy Hill 2021c, Roy Hill Mine Annual Aquifer Review August 2019 July 2020 Report (OP-REP-00680), Issued 15 April 2021 (DWER Record DWERDT466507).
- 8. Roy Hill 2021d, Re: L8621 RE: Managed Aquifer Recharge Bore Log Submission December 2020 (revised SWIB Bore map), Email from Melissa Hobson 12 January 2021, Roy Hill, Perth (DWER Record A1971823).

Appendix 1: Roy Hill Operating Procedures Summary

The Roy Hill Operating Procedures are further detailed below, to provide additional Licence Holder emission control information.

- 1. Roy Hill Spill Response Procedure (OP-PRO-00275), provides for:
 - Control the spill at source if safe to do so (for example: turn off leaking valves, stand up overturned drums, isolate burst hydraulic hose);
 - Contain the extent of the spill using absorbent material/socks around the perimeter of the spill using an oil and hydrocarbon spill kit;
 - Prevent hydrocarbons from entering drains and waterways as a priority.
 - Use spill kit mats, absorbent pillows and peat or similar material to absorb the residual surface liquids in accordance with the SDS including in drains or creek lines. Use a vacuum truck to siphon free liquid (e.g. from within a sump, drain or otherwise dry creek line) and transfer the waste hydrocarbons to the appropriate waste hydrocarbon tank for removal offsite.
 - Place used and contaminated absorbent booms, pillows and matting into designated hydrocarbon waste bins for removal offsite;
 - Remove contaminated soil in accordance with work instructions and dispose of contaminated soil at the Bioremediation Facility
 - Undertake the removal of any contaminated waste from site in accordance with the Environmental Protection (Controlled Waste) Regulations 2004 (Roy Hill, 2021b).
- 2. Roy Hill Chemical Management Procedure (OP-PRO-00289) provides details on refuelling practices. These refuelling practices are adopted across the mine site for all refuelling activities and are not specific to this DSO crushing and screening plant. The procedure outlines the following key points relevant to this facility:
 - Carry out the distribution of diesel fuel using dedicated self-bunded service tanker trucks and refuelling facilities.
 - Provide secondary containment for all hydrocarbon and chemical transfer points in case of failure or leaks.
 - Fit service trucks, re-fuelling trailers and other vehicles used for the transportation of hydrocarbons and chemicals with stocked spill kits and drip trays at all times.
 - Close drains or valves in bunds, drip trays and other containment equipment during normal
 use.
 - Place drip trays under fuel connection points where there is no containment to capture any spills or leaks that may occur.
 - Ensure that personnel undertaking fuel transfer remain in attendance to observe the transfer and respond promptly to any fuel overflows (Roy Hill, 2021b).
- 3. Roy Hill Hazardous Materials Management Procedure (OP-PRO-00289) provides for:
 - Utilisation of ChemAlert as a chemical management system for chemical requests, tracking risk assessments and stock holdings, and searching holdings and the register
 - All chemicals shall be approved for use onsite in ChemAlert prior to being brought to a Roy Hill work area
 - All work areas that store chemicals shall ensure they have either a Safety Data Sheet folder, that accurately reflects the chemicals stored in the area, or access to ChemAlert.
 - Transport of Dangerous Goods according to the Australian Dangerous Goods Code.
 - Store chemical's in approved containers, bulk tanks, fit for purpose bulk facilities or in package stores.
 - All chemicals supplied shall be labelled in accordance with the Code of Practice for the Labelling of Workplace hazardous chemicals

- Work areas shall conduct regular inspections of chemical storage facilities, including bulk stores and minor storage (such as workshop chemical cabinets and warehouses) to assess compliance with this procedure and the Performance Standard.
- Remove waste hazardous material from site and dispose of using an approved waste disposal contractor, and in accordance with the `Waste Management Procedure' (OP-PRO-00063).
- Maintain spill management equipment appropriate to the volume and type of Chemical being stored and ensure that the equipment is easily available, clearly labelled and highly visible at each hazardous material storage location at all times.
- 4. Roy Hill Water Discharge Management Procedure (OP-PRO-00178). The procedure outlines the following key points relevant to this facility:
 - Bund temporary hydrocarbon and chemical storage areas in accordance with Australian Standard 1940 (2004) `The Storage and Handling of Flammable and Combustible Liquids' and construct with materials of an impervious nature to prevent soil and groundwater contamination in the event of accidental spillage.
 - Ensure that bunding is capable of holding 110% of the whole tank's contents where chemical and hydrocarbon storage tanks are not double skinned and self-bunded.
 - Provide secondary containment for all hydrocarbon and chemical transfer points in case of failure or leaks.
 - Ensure that personnel undertaking fuel transfer remain in attendance to observe the transfer and respond promptly to any fuel overflows.
 - Grade semi-permanent and permanent bunded storage areas to drain away from storage tanks to a sump which can be emptied or pumped out, as required.
 - Manage the spill in accordance with the Spill Response Environmental Management Procedure (OP-PRO-00275).

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)						
Application type						
Works approval						
		Relevant works approval number:		None		
		Has the works approvith?	oval been complied	Yes □	No □	
Licence		Has time limited oper works approval dem acceptable operation	onstrated	Yes □ N/A □	No □	
		Environmental Com	pliance submitted?	Yes □	No □	
		Date Report receive	d:			
Renewal		Current licence number:				
Amendment to works approval		Current works approval number:				
Amendment to licence	\boxtimes	Current licence number:	L8621/2011/1			
Amendment to licence		Relevant works approval number:		N/A		
Registration		Current works approval number:		None		
Date application received		15 April 2021				
Applicant and Premises details						
Applicant name/s (full legal name/s)		Roy Hill Iron Ore Pty	/ Ltd			
Premises name		Roy Hill Iron Ore Mine				
Premises location		M46/518, M46/519				
Local Government Authority		Shire of East Pilbara				
Application documents						
HPCM file reference number:		2011/009874-1~15				
Key application documents (additional to application form):		Supporting document comprising - Application - Information - Project loca - Mining stage - Fortescue M		A199682 rt vals state		

Summary of proposed activities or changes to existing operations. An amendment to the licence is sought to install a new a new Direct Ship Ore (DSO) crushing and screening facility. Following commissioning of the new facility the existing DSO Screening facility will be demolished. The new DSO facility will be built in the vicinity of the mine pit area. The plant will relocate from time to time depending on where ore body source material is located. The current crushing and screening plant was approved under Licence Amendment 3 – November 2017.

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

Table 1: Prescribed premises categories

Prescribed premises category and description	Assessed design capacity		Proposed changes to the production or design capacity			
Category 5: Processing or beneficiation of metallic or non-metallic ore	86,000,000 (wet) tpa to produce 65,000,000 (wet) tpa ore for export		No change. Up to 4.5mtpa (wet) will be processed through the new DSO facility.			
Category 6: Mine dewatering	55,000,000 (trial period to 2023)		No change			
Category 12: Screening etc of material	6,570,000 tpa		No change			
Category 52: Electric Power Generation	80MW		No change			
Category 54: Sewage facility	593 m³/day		No change			
Category 57: Used tyre storage (general)	No more than 5,000 tyres		No change			
Category 64: Class II putrescible landfill	8,000 tpa		No change			
Category 73: Bulk storage of chemicals etc	5,530m ³ aggregate		No change			
Category 85B: Water desalination plant	15GL/yr		No change			
Legislative context and other approvals						
Has the applicant referred, or do they intend to refer, their proposal to the E under Part IV of the EP Act as a significant proposal?		Yes □ No ⊠				
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?		Yes ⊠ No □	Ministerial statement No: 824 (Stage 1) and 829 (Stage 2)			
Has the proposal been referred and/or assessed under the EPBC Act?		Yes □ No ⊠	Reference No:			

Has the applicant demonstrated occupancy (proof of occupier status)?	Yes ⊠ No □	Mining lease / tenement ⊠ Expiry: M46/518, Expiry 31/10/2031 M46/519, Expiry 31/10/2031
Has the applicant obtained all relevant planning approvals?	Yes □ No □ N/A ⊠	Approval: Expiry date: If N/A explain why?
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes □ No ⊠	No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes □ No ⊠	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 □	Licence/permit No: GWL172642(4) Water for construction and operation of the DSO will be sourced from the existing dewatering and production borefields
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes □ No ⊠	Name: Pilbara Surface Water Area Pilbara Groundwater Area Type: Proclaimed Groundwater Area/Surface Water 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 ⊠	
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 □	Dangerous Goods Safety Act 2004 Mining Act 1978
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 □	Roy Hill have reported DWER of a potentially contaminated site on 11/11/2020 following a fuel spill. This was largely cleaned up but part of the area can't be accessed.
---	------------	--