



Licence Number	L4762/1972/14
Licence Holder	Pilbara Iron (Services) Pty Ltd
ACN	35 107 210 248
File Number:	DER2013/001057
Premises	Greater Tom Price Iron Ore Mine Mining tenement AML70/4 sections 1-7, 10, 13, 232 – 235, 258, L47/136, L47/209, L47/210, L47/342, L47/645, AG70/3, G47/1258 and L47/668 MOUNT SHEILA WA 6751
Date of Amendment	09/09/2019

Amendment

The Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) has amended the above Licence in accordance with section 59 of the *Environmental Protection Act 1986* (EP Act) as set out in this Amendment Notice. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B(9) of the EP Act.

Louise Lavery
A/Manager, Resource Industries

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

Definitions and interpretation

Definitions

In this Amendment Notice, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
Amendment Notice	refers to this document
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 JOONDALUP DC WA 6919 info@dwer.wa.gov.au
Delegated Officer	an officer under section 20 of the EP Act
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.
DWER	Department of Water and Environmental Regulation
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
Licence Holder	Pilbara Iron (Services) Pty Ltd
Licensee	has the same meaning as Licence Holder
m	metres
Minister	the Minister responsible for the EP Act and associated regulations
MS	Ministerial Statement
Noise Regulations	<i>Environmental Protection (Noise) Regulations 1997</i> (WA)
Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Amendment Notice applies, as specified at the front of this Amendment Notice.

Risk Event	as described in <i>Guidance Statement: Risk Assessment</i>
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Amendment Notice

This amendment is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the Licence issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B(9) of the EP Act.

This notice is limited only to an amendment relating to changing the boundaries of the Prescribed Premise. No changes to the aspects of the original Licence relating to Categories 5, 6, 12, 54, 64 and 73 have been requested by the Licence Holder.

The following guidance statements have informed the decision made on this amendment:

- *Guidance Statement: Regulatory Principles (July 2015)*
- *Guidance Statement: Setting Conditions (October 2015)*
- *Guidance Statement: Decision Making (February 2017)*
- *Guidance Statement: Risk Assessment (February 2017)*
- *Guidance Statement: Environmental Siting (November 2016)*

Amendment description

On 18 April 2019, the Licence Holder submitted an application to amend Licence L4762/1972/14 requesting to amend the boundary of the Prescribed Premises. The proposed amendment to the Prescribed Premises boundary is to facilitate the construction of an access road (Northern Access Road) to connect the Western Turner Syncline mine to White Quartz Road. The licence amendment also seeks approval to operate a mobile crushing and screening plant adjacent to the road during construction to provide material for the road base (Rio Tinto, 2019).

Materials for the Northern Access Road will be sourced from borrow pits which will be located adjacent to the road. No change to the existing Category 12 design capacity is proposed and additional equipment will not be brought onto site, rather existing mobile crushing and screening equipment that operates on site will be moved and operated adjacent to the Northern Access Road. The mobile crushing and screening plant is expected to be a jaw crusher and heavy duty screen with basic specifications as per Figures 1 and 2 below. The specific make of the mobile crushing and/or mobile screening plant will be determined based on availability. Borrow material will be loaded into a jaw crusher via a hopper. The processed material is delivered to screens to ensure the product meets size specification before being used during construction.

The Northern Access Road is required to connect the Western Turner Syncline to the existing White Quartz Road, providing improved all-weather access to the site from Tom Price. The road will be used for transporting the workforce to and from their accommodation and for regular deliveries of fuel, explosives and general freight.

The Northern Access Road will be approximately 7.5 km in length. The road will consist of a single lane in each direction and will be approximately 10m in width; 8m sealed with unsealed shoulders 1m either side of the sealed surface (Rio Tinto, 2019). It is anticipated that construction of the road will take approximately six months to complete.

The Northern Access Road intersects ML4SA; Miscellaneous Licence L47/645; L47/668 (B1 to White Quartz Road) and L47/161 (White Quartz Road) and overlies Rocklea Pastoral Station (N050372) (Rio Tinto, 2019).

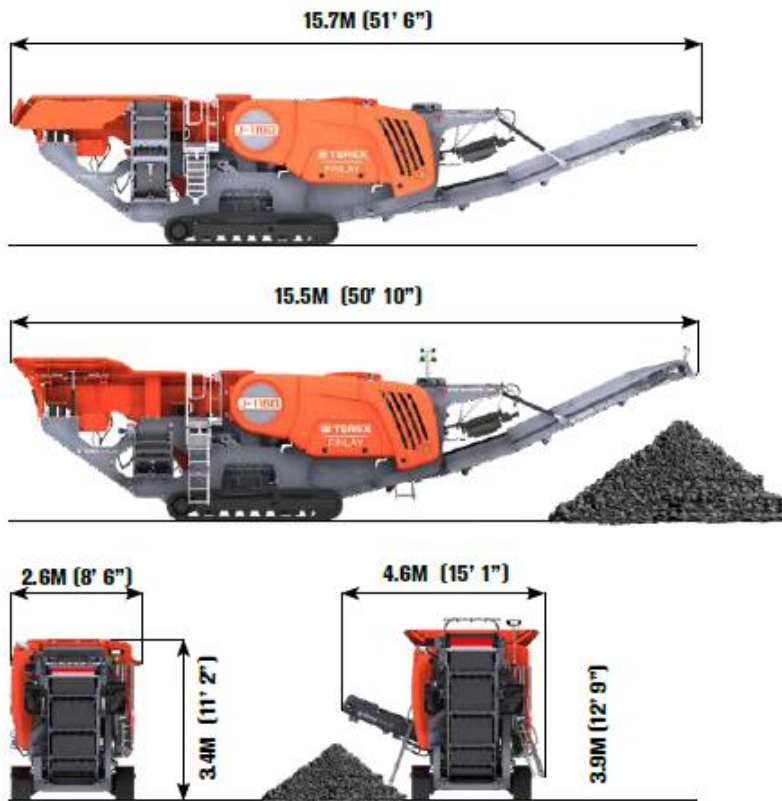


Figure 1. Terex Finley (Series J-1160) Jaw Crusher

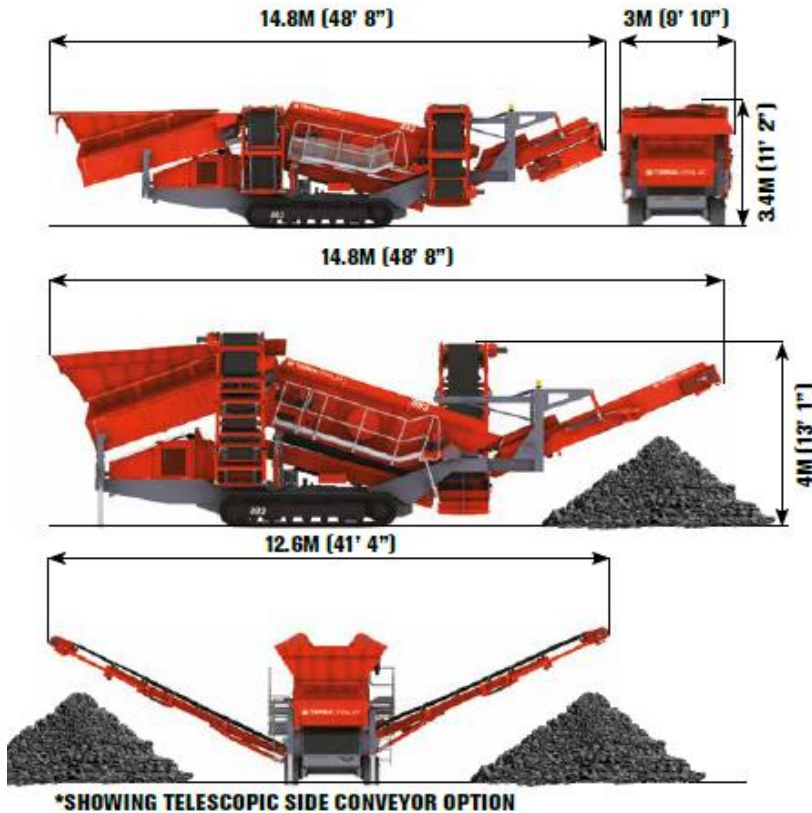


Figure 2. Terex Finley (883 Series) Screener

The existing Greater Tom Price Iron Ore Mine Prescribed Premises boundary is proposed to be amended within the indicative coordinates shown in Table 2 below.

Table 2: Indicative coordinates of the proposed Greater Tom Price Iron Ore Mine Prescribed Premises boundary

Corner	Easting (m)	Northing (m)
North West	548 934	7 497 621
North East	549 896	7 497 618
South East	550 455	7 491 362
South West	548 643	7 493 153

All coordinates are provided using map projection MGA 94 Zone 50

Other approvals

The Licence Holder has provided the following information relating to other approvals as outlined in Table 3.

Table 3: Relevant approvals

Legislation	Number	Approval
Part IV, <i>Environmental Protection Act 1986</i>	Ministerial Statement 1031	Western Turner Syncline Iron Ore Project – Revised Proposal. Published on 23 June 2016
<i>Iron Ore (Hamersley Range) Agreement Act 1963</i>	ML4SA	The majority of the Premises is located on ML4SA granted in 1965
<i>Mining Act 1978</i>	AML70/4, L47/136, L47/209, L47/210, L47/342, L47/645, AG70/3, G47/1258 and L47/668	The majority of the amendment area is located on L47/668

Amendment history

Table 4 provides the amendment history for L4762/1972/14.

Table 4: Licence amendments

Instrument	Issued	Amendment
L4762/1972/14	21/04/2016	<ul style="list-style-type: none"> Increased design capacity for Category 5 to 40,000,000 tpa; Inclusion of Category 12 (design capacity 10,000,000 tpa) and Licence condition L1; Inclusion of WDL1 and WDL2 (now WTS B1 and WTS B2) and a capacity increase for existing Category 64 to 6,000 tpa (from 4,000 tpa); Amendment to condition L27 (previously L16) to include improvement requirements IR1 – IR3 relating to the Greater Tom Price Tailings Storage Facility (TSF), the Section 6 Pit and the MOC and Beneficiation Plant WWTPs; Removal of previous conditions 1, 2, 4, 7, 8, 9, 10, 16 – 20, 25, 37 and 38; Updated premises maps; and Administrative changes.

L4762/1972/14	17/10/2017	<ul style="list-style-type: none"> Increased design capacity for Category 6; Inclusion of the WTS S10 dewatering outfall discharge point; Increased design capacity for Category 64; Decreased design capacity for Category 73 Reduction in the monitoring parameters of the WTS S2 discharge; Construction and operation of the WTS B1 putrescible landfill; and Other administrative changes.
L4762/1972/14	09/09/2019	<ul style="list-style-type: none"> Amend Premises boundary to include a northern access road to connect the Western Turner Syncline mine to White Quartz Road. Operate a mobile crushing and screening plant adjacent to the access road (No changes to Category 12 capacity).

Location and receptors

Table 5 below lists the relevant sensitive land uses in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 5: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from Prescribed Premises
Township of Tom Price	Approximately 700m north of the Prescribed Premises boundary but more than 30km east of the proposed Prescribed Premises amendment area
Hamersley Pastoral Lease	Overlies the northern section of the Prescribed Premise boundary but more than 14km east of the proposed Prescribed Premises boundary amendment area. Hamersley Station covers an area of approximately 2,665km ² .
Rocklea Pastoral Lease (Pastoral Lease held by Licence Holder)	Overlies the proposed Prescribed Premises boundary amendment area. Rocklea Station covers an area of approximately 3,598km ² .

Table 6 below lists the relevant environmental receptors in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 6: Environmental receptors and distance from activity boundary

Environmental receptors	Distance from Prescribed Premises
DBCA - Legislated Lands and Waters	Karajini National Park 43km east of the Prescribed Premises boundary amendment area
Public Drinking Water Source Area	Paraburdoo Water Reserve (Priority 1) 29km south east of the Prescribed Premises boundary amendment area.
Priority Ecological Community	Brockman Iron cracking clay communities of the Hamersley Range 35km north east of the Prescribed Premises boundary amendment area
Threatened Fauna	Northern quoll (<i>Dasyurus hallucatus</i>), Pilbara olive python (<i>Liasis olivaceus</i> subsp. <i>Barroni</i>) and ghost bat (<i>Macroderma gigas</i>); all recorded within 20km of the

	Prescribed Premises boundary amendment area
Priority and Threatened Flora	<i>Ptilotus subspinescens</i> (P3) was recorded within the Prescribed Premises boundary amendment area.
<p>Surface water</p> <p>The Northern Access Road will intersect local ephemeral creek flows and interrupt natural overland flows however, surface water management structures will ensure no significant impacts to natural surface water flows</p>	<p>The Prescribed Premises boundary amendment area intersects the Pilbara Surface Water Area, which is a proclaimed area under the <i>Rights in Water and Irrigation Act 1914</i>.</p> <p>Numerous minor, non-perennial watercourses intersect the Prescribed Premises boundary amendment area.</p> <p>Beasley River is located 4.2km north west and Hardey River is 3.3km east of the proposed Prescribed Premises boundary amendment area at their nearest points.</p>

Risk assessment

Tables 7 and 8 below describe the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. Both tables identify whether the emissions present a material risk to public health or the environment, requiring regulatory controls.

Table 7: Risk assessment for proposed amendments during construction

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	
Source/Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts					
Cat 12 Screening etc. of material	Clearing of native vegetation, placement of mobile crusher and screening plan, and movement of vehicles	Dust	Township of Tom Price Surface water Native vegetation	Air Surface water	Health and amenity impacts Sedimentation to surface water. Decline in vegetation health.	N/A	N/A	N/A	The distance between the residential receptors and the proposed amendment area is too great for dust and noise impacts from the clearing, mobilization and positioning of equipment to occur.
		Noise	Township of Tom Price	Air	Health and amenity impacts	N/A	N/A	N/A	The Licence Holder advises that noise and dust emissions will be managed via standard operating procedures, including: <ul style="list-style-type: none"> Restricting work hours to daylight hours; Clearing during construction being restricted to only areas required for construction activities; Dust suppression (water sprays, water trucks, control of vehicle movement/restricted speeds) during construction; and Rehabilitation of disturbed area. The provisions of the Noise Regulations are also applicable.

Table 8: Risk assessment for proposed amendments during operation

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	
Source/Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts					
Cat 12 Screening etc. of material	Operation of crushing infrastructure	Dust	Surface water (adjacent ephemeral creeks) Native vegetation	Air Surface water	Sedimentation to surface water. Decline in vegetation health.	Minor	Rare	Low	<p>The Licence Holder advises that dust emissions will be managed via standard operating procedures, including:</p> <ul style="list-style-type: none"> • Dust suppression (water sprays, water trucks, control of vehicle movement/restricted speeds) during construction; and rehabilitation of disturbed area. <p>To manage risk associated with surface water runoff the Licence Holder operates in accordance with a management plan that requires the mobile plant to be situated in a suitable location such that:</p> <ul style="list-style-type: none"> • They are located at least 50 meters from any permanent water body. • The mobile plant area is contained so no contaminated runoff leaves the premises. • Uncontaminated stormwater from the surrounding areas shall be diverted around the mobile plant area.
		Noise Dust	Township of Tom Price	Air	Health and amenity impacts				N/A

									Premises boundary amendment area is too great for dust and noise impacts from the operation of the crusher to occur.
		Hydrocarbons	Soils/ groundwater	Via direct discharge to land	Soi/ Groundwater contamination	Minor	Rare	Low	<p>The Licence Holder has advised that hydrocarbons will be managed via standard operating procedures, including:</p> <ul style="list-style-type: none"> • storage in bunded areas / secondary containment; • appropriate labelling of storage areas; and • provision of spill response equipment. <p>Regular maintenance of hydrocarbon storage facilities will be undertaken. Standard hydrocarbon and spill management procedures are expected to effectively mitigate the risk of hydrocarbon contamination.</p>

Decision

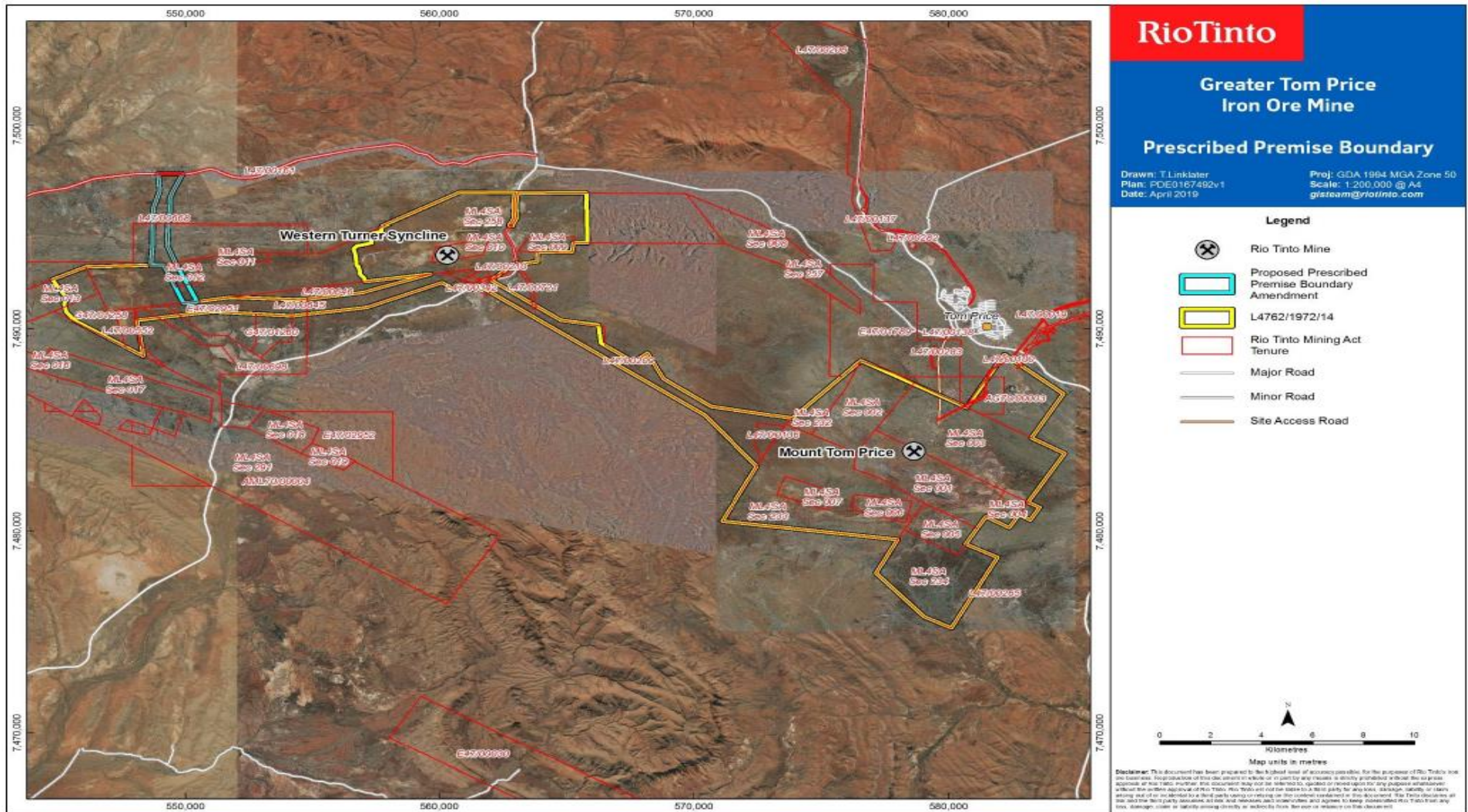
The amendment application to operate mobile crushing and screening equipment adjacent to the proposed northern access road has a low risk to public health and the environment. The Delegated Officer determined that given the distance to residential receptors and the Licence Holder's proposed controls no additional regulatory controls are required, however condition 1 has been reworded in order to clarify which Licence Holder controls are applied to manage risks from dust and sediment laden runoff. The Delegated Officer has determined to grant the Amended Licence with the revision of existing Condition 1.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 27 August 2019. Comments received from the Licence Holder have been considered by the Delegated Officer as shown in Appendix 2.

Amendment

1. Attachment 1 – Premises Map is amended by the deletion of the map and is replaced with a new map as shown below:



Licence: L4762/1972/14

Amendment Notice 2

2. Condition 1 of the Licence is amended by the deletion of the text shown in strikethrough and the insertion of the bold text shown below:

~~The Licensee shall only operate the Mobile Crushing and Screening Plant(s) in accordance with the Iron Ore (WA) Mobile Crushing and Screening Management Plan (RTIO-HSE-0235877).~~

- 1 (a) In dry conditions, the Licensee shall manage dust generated from the Mobile Crushing and Screening Plant(s) by:**
- **Spraying the feed stockpile with water prior to ore being fed into the screen;**
 - **Using dust suppression on stockpiles;**
 - **Operating water carts to dampen work areas, access roads and stockpiles to minimise dust lift-off during storage and handling of borrow and screened material as required;**
 - **Using hydraulically angle-adjustable stockpiling conveyors (if fitted) to minimise drop heights; and**
 - **Operating belt sprayers (if fitted) to dampen crushed material.**
- 1 (b) The Licensee shall manage stormwater runoff from the Mobile Crushing and Screening Plant(s) in accordance with the following actions:**
- **The mobile plant(s) shall be located at least 50 meters from any permanent water body;**
 - **The mobile plant area is bunded so no contaminated runoff leaves the immediate work area; and**
 - **Uncontaminated stormwater from the surrounding areas shall be diverted around the mobile plant area.**

Appendix 1: Key documents

	Document title	In text ref	Availability
1	Licence L4762/1972/14 – Pilbara Iron (Services) Pty Ltd	L4762/1972/14	accessed at www.dwer.wa.gov.au
2	Amendment Application and supporting information– L4762/1/1972/14 – submitted on 18 April 2019	Rio Tinto (2019)	DWER records (DWERDT153813)
3	Ministerial Statement 1031	MS 1031	accessed at www.epa.wa.gov.au/
4	DER, July 2015. <i>Guidance Statement: Regulatory principles</i> . Department of Environment Regulation, Perth.	DER 2015a	accessed at www.dwer.wa.gov.au
5	DER, November 2016. <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.	DER 2016b	
6	DER, November 2016. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.	DER 2016c	

Appendix 2: Summary of Licence Holder comments

The Licence Holder was provided with the draft Amendment Notice on 27 August 2019 for review and comment. The Licence Holder first responded on 30 August 2019 and then again on 5 September 2019.

Condition	Summary of Licence Holder comment	DWER response
1(a)	The Licensee requested that the Licence conditions be amended to allow for management measures to be implemented 'as required' to avoid non-compliance where measures were not practicable.	DWER advised that the proposed condition amendments would not be enforceable. As a result DWER amended Condition 1(a) to include the text 'In dry conditions' and to use conveyors and sprayers 'if fitted'.
1(a)	The Licensee agreed to the proposed changes on 5 September 2019.	