



Licence Number L7021/1997/15

Licence Holder City of Karratha

File Number: DER2013/000622-1~2

Premises
Seven Mile Waste Disposal Facility
Seven Mile Road
GAP RIDGE WA 6714
Legal description –

Lot 85 on Plan 180017 and Lot 552 on Plan 71049
CROWN RESERVE 32987 AND 33135

Date of Report 12 November 2019

Decision Licence Amended

1. Definitions and interpretation

Definitions

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

Table 1: Definitions

Term	Definition
Amendment Report	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 33 Cloisters Square PERTH WA 6850 info@dwer.wa.gov.au
CS Act	<i>Contaminated Sites Act 2003 (WA)</i>
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
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
Existing Licence	The Licence issued under Part V, Division 3 of the EP Act and in force prior to the commencement of and during this Review
Licence Holder	City of Karratha
Minister	the Minister responsible for the EP Act and associated regulations
Noise Regulations	<i>Environmental Protection (Noise) Regulations 1997 (WA)</i>
Occupier	has the same meaning given to that term under the EP Act.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Amendment Report applies, as

Term	Definition
	specified at the front of this Amendment Report.
Risk Event	as described in <i>Guidance Statement: Risk Assessment</i>
UDR	<i>Environmental Protection (Unauthorised Discharges) Regulations 2004 (WA)</i>

2. Amendment Description

The following guidance statements have informed the assessment and decision outlined in this Amendment Report.

- *Guidance Statement: Regulatory Principles (July 2015)*
- *Guidance Statement: Setting Conditions (October 2015)*
- *Guideline: Decision Making (June 2019)*
- *Guidance Statement: Risk Assessment (February 2017)*
- *Guidance Statement: Environmental Siting (November 2016)*

2.1. Purpose and scope of assessment

On the 26 July 2019, the City of Karratha (the Licence Holder) submitted a Licence amendment application to DWER for the Seven Mile Waste Facility (L7021/1997/15) located at Seven Mile Road, Gap Ridge (the Premises). The amendment was sought by the Licence Holder after an inspection was conducted by DWER (Compliance) on 22 May 2019, which noted that the tyre stockpile dimensions at the Premises were non-compliant with current Licence conditions. A follow up meeting held with DWER on 12 June 2019 also flagged that tyres were being shredded on the Premises without approval. As a result, this amendment seeks to include Category 61A (*Solid waste facility*) to the Licence to allow for the shredding of tyres, and increase the current throughput capacity of Category 57 to allow for greater tyre storage. The aim of these amendments is to reduce stockpile size on the Premises to ensure continuing compliance with Licence conditions.

This amendment also acts to amalgamate changes made under Amendment Notice 1 (issued 19 October 2018) into the Existing Licence.

Table 2 below outlines the proposed changes to the Licence.

Table 2: Proposed throughput capacity changes

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
57	174,000 tyres per annual period	200,000 tyres per annual period	Increase in current throughput capacity
61A	-	10,000 tonnes per annual period	Addition of new category to Licence to cover tyre shredding activities

2.2 Background

The Licence Holder commenced operations at the Premises in 1997 and is currently licenced for activities relating to Category 57 (Used tyre storage) Category 61 (Liquid waste facility)

Category 62 (Solid waste depot) and Category 64 (Class II or Class III Putrescible landfill site).

The Premises is located approximately 9km south-west of Karratha in the Gap Ridge industrial estate, and covers an area of approximately 100 hectares. A borrow area is located in the Premises south-west corner, with the separate disposal of contaminated hazardous waste and asbestos occurring in the south-east corner of the Premises. A community recycling centre and liquid waste facility are located in the northern section of the Premises. Stockpiles of accumulated materials such as metals, construction and demolition waste and tyres are located on the western side of the site.

A detailed site plan reflecting the current site layout is included in Figure 1.



Figure 1: Site plan

2.3 Proposed changes to operations

Increase in Category 57 throughput capacity

It was noted during the 22 May 2019 inspection that several of the tyre stockpiles on the Premises exceeded the dimensions specified within Licence conditions. The storage was also contrary to the requirements outlined to the Department of Fire and Emergency Services (DFES) guidance statement *Guidance Note: GN02 Bulk storage of rubber tyres included shredded and crumbed tyres* (GN02). Additionally, the Licence Holder has calculated that the Existing Licence throughput limit of 174,000 tyres per annual period is not adequate to cover the number of tyres currently stored or received annually at the Premises.

The Licence Holder has requested an amendment to the Existing Licence to increase the Category 57 capacity to 200,000 tyres (or equivalent) stored on-site at any one time. This amendment will account for the number of tyres currently being stored and processed at the facility and allow the Premises to remain compliant while existing tyre stockpiles are reduced in size through shredding. It is predicted that once the tyres currently stockpiled at the Premises have been shredded or disposed of, the number of whole tyres stockpiled at the Premises in the future will be greatly reduced. In this regard, this amendment will assist the Licence Holder in reducing stockpile dimensions so that stockpiles of whole tyres also comply with DFES GN02. Stockpiled whole tyres will be located as depicted in Figure 2 of Appendix 1.

Addition of Category 61A

To allow for the shredding of tyres at the Premises, the Licence holder has proposed to add Category 61A to the Existing Licence at a capacity of 10,000 tonnes per annum. Existing whole tyre stockpiles will be disassembled within the tyre storage area from north to south, with stockpiles identified as non-compliant with Licence conditions being given priority. Tyres will be visually inspected to ensure they do not contain any contaminants prior to shredding. Any tyres that are found to contain contaminants will be removed to landfill cells within the Premises. Tyres will be shredded to a maximum of 250mm using a Hammel Primary 950 DK Shredder which is already in use on-site. It is estimated that the shredding of all existing tyres at the Premise will be complete by July 2021.

Tyre shred will be stored within trenches which will be constructed by the Licence Holder for this purpose. As the existing whole tyre stockpiles are reduced in size, the trenches will be constructed for the storage of tyre shred progressively from north to south, with the final layout of the tyre storage area depicted in Figure 2 of Appendix 1. The trenches will be located so dimensions and separation distances comply with the guidance set out in DFES GN02 for shredded tyre stockpiles. Each trench will have a capacity of 200m³ and it is estimated that a maximum of 112 trenches will be required to store all tyre shred originating from currently stockpile whole tyres on the Premises.

To follow the recommendations set out in DFES GN02 and reduce fire risk, a bulldozer will strip 300m of soil from the area designated for the construction of trenches to ensure that no organic content will be present within the surface area of the trenches. The trenches will have a soil perimeter edge bund which will reduce the risk of air ingress at the base of the trench. It is anticipated that moisture levels within the trenches will be minimal, due to the high potential evaporation rates in Karratha. The Licence Holder has advised that they will not be separating the tyre shred from the soil with a geotextile as recommended, as this puts the tyre shred in direct contact with a combustible/flammable material.

The Licence Holder is currently investigating the use of shredded tyres for a variety of civil applications, so as to avoid long term storage of the material at the Premises. It is the Licence Holders intent to use the tyre shred as a part of the engineered capping system for Landfill Cell 0, located at the Premises and depicted in Figure 1. The capping of Cell 0 is currently scheduled for mid/late 2020 and it is estimated that all tyre shred generated on site will be utilised as tyre

derived aggregate replacement to assist in drainage of the restoration soils across the crown of the Cell 0 cap. Tyre shred will be stored within trenches for 12 to 18 months while awaiting use in the capping system. Conditions have been included within the amendment to limit tyre shred storage to 3 years, to ensure that tyre shred is not stored for long periods on site in accordance with DFES GN02.

The Licence Holder intends to submit an application to assess the use of tyre shred as tyre derived aggregate replacement and anticipates that this will be submitted by December 2019. Subsequently, the capping of Cell 0 has not been assessed as a part of this amendment.

In the event that tyre shred is found unsuitable for use in the capping system of Cell 0, the Licence Holder intends to repurpose the material as the first fill sequence for new landfill cells at the Premises, as this requires 1-2m of soft waste to reduce the risk of damaging the basal lining system. This is anticipated to utilise all of the tyre shred generated on site from the shredding of existing tyre stockpiles. The use of tyre shred for improvement projects or construction works is also currently being investigated.

2.4 Consolidation of Licence

As part of this amendment package DWER has consolidated the Licence by incorporating changes made under the following Amendment Notices:

- Amendment Notice 1, granted 29 October 2018 – acceptance of Class III wastes and the rehabilitation of existing landfill cells

The obligations of the Licence Holder have not changed in consolidating the Licence. DWER has not undertaken any additional risk assessment of the Premises related to previous Amendment Notices.

In consolidating the Licence, the CEO has:

- updated the format and appearance of the Licence;
- replaced maps of the Premises within the Licence with updated maps provided by the Licence Holder;
- deleted the redundant N1 Reporting and Notification form set out in Schedule 2 of the previous Licence and advised the Licence Holder to obtain the form from the Department's website;
- revised Licence Condition's numbers, and removed any redundant conditions and realigned Condition numbers for numerical consistency; and
- corrected clerical mistakes and unintentional errors.

Previously issued Amendment Notices will remain on the DWER website for future reference and will act a record of DWER's decision making.

3 Emissions and discharges

Table 3 below provides a summary of Licence Holder controls to mitigate emissions and discharges arising from activities relating to this amendment.

Table 3: Emissions and discharges from proposed changes to processing

Construction		
Emission	Source	Proposed Controls

Dust	Excavation of trenches and the movement of vehicles	Activities will be suspended during adverse weather conditions.
Noise		Use of water cart as required on construction are and unsealed roads as required. Vehicle speed limited to 10km/hr unless otherwise signed.
<p>All trucks and mobile equipment to be fitted with broadband noise reversing alarms.</p> <p>Vehicle speed limited to 10km/hr unless otherwise signed.</p> <p>Slow unloading of trucks from lowest possible height.</p> <p>Operations to be restricted to between 7:00am – 4:30pm.</p>		
Operation		
Emission	Source	Proposed Controls
Dust	Vehicle movements, removal of tyres from existing stockpiles, shredding of tyres, storage of tyre shred	Tyres will be wet down prior to shredding.
Noise		Activities will be suspended during adverse weather conditions. Use of water cart as on whole tyre stockpiles and shredding equipment as required. Vehicle speed limited to 10km/hr unless otherwise signed.
		All trucks and mobile equipment to be fitted with broadband noise reversing alarms. Vehicle speed limited to 10km/hr unless otherwise signed. Slow unloading of trucks from lowest possible height. Operations to be restricted to between 7:00am – 4:30pm.
Fire - Release of environmentally hazardous compounds to air or land through the burning of tyres	Shredding of tyres	Tyres will be inspected for contaminants prior to shredding, if contaminants are located tyres will instead be disposed of in the Landfill cells. Tyres that have been subject to fire will not be shredded and will be disposed of in the Landfill cells. Tyres will be wet down prior to shredding. Shredding of tyres shall not take place where temperatures exceed 44 degrees. Fire-fighting equipment capable of extinguishing a tyre fire on site and maintained in good working order.

	Stockpiled whole tyres, tyre shred storage bunds	<p>Separation distance and stockpile dimensions for whole tyres maintained in accordance with DFES GN02.</p> <p>No direct contact between tyre shred and soil containing organic matter e.g. top soil.</p> <p>Trenches constructed with soil perimeter bund to reduce the risk of air ingress.</p> <p>Trenches will be constructed to maintain a 6m separation distance between the base of the trench and the water table.</p> <p>Trenches will be constructed so as to comply with DFES GN02 guidance relating to stockpiles of tyre shred.</p> <p>Fire-fighting equipment capable of extinguishing a tyre fire on site and maintained in good working order.</p> <p>Earth bund walls and catchment pits to be constructed to contain fire washwaters in the event of a tyre fire.</p> <p>Washwaters generated from a fire will be diverted into the sites surface water management system and transferred to the sites lined evaporation ponds for treatment.¹</p>
--	--	--

Note 1: While DWER acknowledges at this stage the Licence Holder does not have authority to accept and treat fire washwaters or PFAS (per- and poly-fluoroalkyl substances) which may be present in fire washwaters, the Licence Holder has submitted a separate amendment application to seek to accept and treat both fire washwaters and PFAS contaminated materials. This application was submitted to the department on 22 October 2019 and as such, the acceptance of the additional liquid wastes will not be assessed as a part of this amendment.

4 Other approvals

The Premises is located in an area zoned as 'Public purposes: Waste disposal and treatment' as defined by the City of Karratha's Local Planning Scheme No. 8. The proposed activities specified under this amendment application fall under the public works exemption as the site is already licenced as a waste management facility. As a result, no Planning approvals are required for ongoing Premises activities.

5 Amendment history

Table 4 provides the amendment history for L7021/1997/15.

Table 3: Licence amendments

Instrument	Issued	Amendment
L7021/1997/13	20 June 2009	Licence re-issue.
L7021/1997/14	20 June 2012	Licence re-issue.
L7021/1997/14	23 August 2013	Licence amendment for two evaporation ponds.
L7021/1997/14	30 October 2014	Licence amendment for addition of Category 62 and conversion to new format.

L7021/1997/15	11 June 2015	Licence re-issue.
L7021/1997/15	3 December 2015	Licence amendment for administrative changes.
L7021/1997/15	23 December 2016	Licence amendment to accept oily saline water for disposal via evaporation.
L7021/1997/15	18 May 2017	Licence amendment for construction of Class III and rehabilitation of existing landfill cell.
L7021/1997/15	29 October 2018	Minor amendment allowing the acceptance of Class III and the use of the constructed Class III cell.
L7021/1997/15	12 November 2019	Licence amendment for the addition of Category 61A, the increase of throughput capacity of Category 57, amalgamation of previous licence and amendment notices, and conversion to new licence format.

6 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 4: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from Prescribed Premises
Stayover Kingfisher Village	1.4km south-east of Premises
Civeo Karratha Village	2.2km north-east of Premises
Residential properties	3km north-east of Premises

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 5: Environmental receptors and distance from activity boundary

Environmental receptors	Distance from Prescribed Premises
Pilbara Groundwater Area (<i>RIWI Act 1914</i>) <ul style="list-style-type: none"> Groundwater typically 6-10m below existing ground level Hyper saline brackish 	Premises mapped within this designated area
Pilbara Surface Water Area (<i>RIWI Act 1914</i>)	Premises mapped within this designated area
Threatened ecological communities <ul style="list-style-type: none"> Roebourne Plains gilgai grasslands 	Premises mapped within this area
Surface water lines <ul style="list-style-type: none"> Seven Mile Creek Minor non perennial water course 	490m east of Premises

7 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 6: Risk assessment for proposed amendments during construction

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	Regulatory controls (refer to conditions of the granted instrument)
Source/Activities	Potential emissions	Potential receptors	Potential pathway and receptor (impact)	Licence Holder controls					
Trench construction for containment of tyre shred	Dust: Excavation of soil for trench construction, vehicle movements	Threatened ecological communities mapped within the Premises area Surface water lines 490m east of the Premises	Air: health and amenity impacts	As outlined in Section 3.	Moderate	Unlikely	Medium	The onsite water cart will be used to suppress emissions of fugitive dust as required. The water cart can also maintain all working areas in a damp state to prevent the generation of dust through excavation activities or vehicle movements. Imposed speed restrictions will assist in dust suppression on unsealed roads. Activities will be suspended in the event that dust management strategies fail to mitigate emissions.	Condition 21: Works requirements for trench construction
	Noise: Use of excavation equipment and vehicle movements	Stayover Kingfisher Village 1.4km south-east of the Premises	Air: health and amenity impacts	As outlined in Section 3.	Minor	Unlikely	Medium	Vehicle speed restrictions and the fitting of broadband noise reversing alarms will reduce the emission of noise resulting from vehicle movements. The restriction of site operation hours will also limit the amount of noise generated from excavation activities.	Noise emissions must comply with the EP Noise Regulations.

Table 7: Risk assessment for proposed amendments during operation

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	Regulatory controls (refer to conditions of the granted instrument)
Source/Activities	Potential emissions	Potential receptors	Potential pathway and receptor (impact)	Licence Holder					
Breakdown of existing tyre stockpiles, shredding of tyres and vehicle movements	Dust: generated from the breakdown of whole tyre stockpiles, tyre shredding and vehicle movements	Surface water lines 490m east of Premises Threatened ecological communities – Premises mapped within area Pilbara surface water area – Premises mapped within this designated area Stayover Kingfisher village 1.4km south east of Premises	Air: health and amenity impacts	As outlined in Section 3.	Minor	Unlikely	Medium	The use of an onsite water cart will target localised dust emissions from the breakdown of existing stockpiles and the movement of vehicles across the unsealed hardstand. Tyres will be wetted down prior to entering the shredder to reduce any potential localised emission. Vehicle speed is also restricted to 10k/hr across all operational areas of the Premises and activities will be suspended when weather conditions appear likely to generate fugitive dust.	Condition 8: Waste processing (Table 4)
	Noise: generated from the use of the shredder and vehicle movements	Threatened ecological communities – Premises mapped within area Stayover Kingfisher village 1.4km south east of Premises	Air: health and amenity impacts	As outlined in Section 3.	Minor	Unlikely	Medium	All equipment utilised for activities listed under this amendment is currently in use for daily site operations, new activities are unlikely to significantly increase overall noise emissions from the Premises. Operational hours are restricted across the Premises to between 7:00am – 4:30pm and all vehicles are fitted with broadband noise reversing alarms.	Noise emissions must comply with the EP Noise Regulations.

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	Regulatory controls (refer to conditions of the granted instrument)
Source/Activities	Potential emissions	Potential receptors	Potential pathway and receptor (impact)	Licence Holder					
	Fire incident risk: smoke, including particulates and air emissions containing hydrocarbons and other toxic elements released in the event of a fire.	<p>Pilbara groundwater area – Premises mapped within this designated area</p> <p>Pilbara surface water area – Premises mapped within this designated area</p> <p>Surface water lines 490m east of Premises</p> <p>Threatened ecological communities – Premises mapped within area</p> <p>Stayover Kingfisher village 1.4km south east of Premises</p> <p>Civeo Karratha Village 2.2km north east of Premises</p> <p>Residential properties 3km north east of Premises</p>	Air: health and amenity impacts	As outlined in Section 3.	Major	Unlikely	Medium	<p>The Licence Holder has submitted a Tyre Fire Management Plan with their amendment application detailing measures to be taken in the event of a tyre fire. The Plan details the network of firefighting equipment on site and how this is maintained in good working order.</p> <p>All tyres will be wet down prior to being shredded and the shredding of tyres will not occur where temperatures exceed 44 degrees. Tyres will also be visually inspected for contaminants including hydrocarbons and organic matter prior to entering the shredder to further reduce the risk of ignition. Tyres that have been subject to a fire will also not be shredded.</p>	<p>Condition 8: Waste processing (Table 4)</p> <p>Conditions 14 – 17: Fire management</p> <p>General provisions of the EP Act and CS Act may also apply in the event of a fire incident.</p>
Storage of whole and shredded tyres	Fire incident risk: smoke, including particulates and air emissions containing hydrocarbons and other toxic elements released in the event of a fire.	<p>Pilbara groundwater area – Premises mapped within this designated area</p> <p>Pilbara surface water area – Premises mapped within this designated area</p> <p>Surface water lines 490m east of Premises</p>	Air: health and amenity impacts	As outlined in Section 3.	Major	Unlikely	Medium	<p>Both whole and shredded tyres will be stored on the Premises so as to comply with DFES GN02.</p> <p>Trenches for the storage of tyre shed will be constructed to mostly comply with DFES recommendations to reduce the risk of combustion.</p> <p>The inspection of tyres prior to being shredded for liquid contaminants, organic material and tyres involved in a fire will ensure that only clean tyre shred is stored on the Premises, reducing the risk of ignition.</p> <p>Firefighting equipment installed across the Premises is detailed in the submitted Tyre Fire Management Plan along with actions to be taken in the event of a fire of stored shredded and whole tyres.</p>	<p>Conditions 14 – 17: Fire management</p> <p>Conditions 18 – 23: Tyre storage</p> <p>General provisions of the EP Act and CS Act may also apply in the event of a fire incident.</p>
	Fire washwater: Firefighting washwater may contain hazardous material including surfactants, heavy metals, hydrocarbons, emulsifiers and modifiers.	<p>Threatened ecological communities – Premises mapped within area</p> <p>Stayover Kingfisher village 1.4km south east of Premises</p> <p>Civeo Karratha Village 2.2km north east of Premises</p> <p>Residential properties 3km north east of Premises</p>	Surface water run-off and groundwater impacts: Contamination with hazardous materials generated from extinguishing a potential fire.	As outlined in Section 3.	Major	Unlikely	Medium	<p>Trenches of stored tyre shred will be constructed to maintain a 6m separation distance between the base of the trench and the water table, which may act to slow groundwater infiltration in the event of stockpiled tyre shred igniting.</p> <p>DWER considers that the construction of an earth bund and unlined catchment pits will only provide limited control for potentially impacted washwaters infiltrating into the ground in the event of a fire</p> <p>Fire washwaters will be contained within the existing surface water management system and diverted to the sites lined evaporation ponds for treatment.</p> <p>DWER acknowledges at this stage the Premises is not licenced to accept and treat fire washwaters or PFAS (per- and poly-fluoroalkyl substances) which may be present in fire washwaters.</p>	<p>Conditions 14 – 17: Fire management</p> <p>Conditions 18 – 23: Tyre storage</p> <p>General provisions of the EP Act and CS Act may also apply in the event of a fire incident.</p>

8 Consultation

Table 9: Summary of consultation

Method	Comments received	DWER response
Department of Fire and Emergency Services (DFES) – referred for comment 28 August 2019.	DFES has no objections as long as the detail and procedures in the Fire Management Plan and related supporting documents are adhered to. Comments received 24 October 2019.	Conditions have been added to the Licence to encompass management procedures outlined in the Licence Holder's supporting documentation, which are in line with DFES GN02.
Licence Holder referred draft documents (1 November 2019)	The City requests that the proposed timeframe for storage of tyre shred on site be extended from 2 years to 5 years. The initially proposed 2 years is highly restrictive and could have unforeseen impacts on future operations at the site. Comments received 7 November 2019.	The intent of conditioning the length of time tyre shred can be stored on the Premises is to also limit the volume of tyre shred stored on the site at any given time. The Seven Mile Waste Disposal Facility stockpiles and processes significantly larger volumes of tyres than any other Premises within the state and the accumulation of extremely large volumes of tyre shred is not the intent of the conditions within the amendment and does not align with the City of Karratha's proposed treatment of tyre shred. The long-term storage of tyre shred at the Premises is also not compliant with DFES GN02, as long-term storage will increase the risk of material spontaneously combusting. The Delegated Officer considers that a 3 year storage timeframe will allow the Licence Holder suitable flexibility. Additional Licence conditions were proposed to the Licence Holder on 11 November 2019, to assist with the enforcement of the 3 year timeframe. These conditions were accepted for inclusion in the Licence by the Licence Holder on 12 November 2019.
	Minor outstanding information provided to inform Amendment Report. Comments received 7 November 2019.	Amendment report updated to include outstanding information

9 Conclusion

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

9.2 Summary of amendments

Table 10 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.

Table 10: Licence amendments

Condition No.	Proposed amendments
8 Table 4: Waste Processing	Inclusion of shredding in processing of Inert Waste Type 2 – Tyres Inclusion of process limits relating to shredding of tyres Referral to new conditions relating to tyres outside of waste processing table
20(a)	Change of minimum distance between tyre stockpiles and any fence, combustible material or wall from 6m to 18m
20(b)	Change of maximum area of tyre stockpile from 100m ² to 60m ²
20(d)	Inclusion of grouping stockpiles into four, with a minimum separation distance of 2.5m between the stockpiles
20(e)	Inclusion of minimum separation distance of 18m between stockpile groupings
20(f)	Inclusion for stockpiles to be located in the tyre shred storage area as defined by Map in Schedule 1 of Licence
21	Inclusion of construction specifications, requirements and locations for tyre shred storage trenches
22	Inclusion to limit tyre shred storage to tyre shred storage trenches only
23	Change to condition wording to encompass tyre stockpiles and tyre shred storage trenches
29, 30, 31	Condition wording updated, inclusion of Schedule 3 for ambient groundwater monitoring requirements
32, 33	Change of conditions to reflect current condition wording
Schedule 1: Maps Premises Map	Previous Premises map replaced with updated version
Schedule 1: Maps Map of tyre storage areas	Inclusion to define tyre stockpile and tyre shred storage areas. Inclusion to define tyre stockpile and tyre shred storage trench dimension and separation distances
Schedule 2: Primary Activities Table 11: Primary Activities	Change of Premises production or design capacity for Category 57 from 174,000 tyres to 200,000 tyres Inclusion of Category 61A with a Premises production or design capacity of 10,000 tonnes per annual period
Schedule 3: Monitoring	Inclusion of ambient groundwater monitoring requirements in separate schedule as per updated condition set. Previous map of monitoring locations moved to schedule and replaced with

Condition No.	Proposed amendments
	updated version

Changes made to existing Licence Conditions so as to reformat and restructure the Licence into the new Licence format are noted in the conversion map in Table 11 below.

Table 11: Licence conversion map for new licence format

Existing licence condition	Condition Summary	Revised licence condition	Conversion notes
All relevant	Licensee	Licence Holder	Update to standard terminology and nomenclature
N/A	Prescribed premises category	Schedule 2: Primary Activities	Removed from front page and incorporated into Schedule 2
Condition 1.1.1 and 1.1.2	Definitions	N/A Definitions section – Table 1	Updated definitions relevant to the existing licence and amendment
Condition 1.1.3 and 1.1.4	Reference to Australian standard, guidelines or codes of practice	N/A	Removed and incorporated into other Conditions
Condition 1.2.1, Table 1.2.1	Proposed works around landfill cell construction	Condition 1 and Table 2	Reference change and reformatted
Condition 1.2.2	Departure from specifications in Condition 1.2.1	Condition 2	Reference change and reformatted
Condition 1.2.3	Claims of departure under Condition 1.2.2 must be provided to CEO	Condition 3	Reference change and reformatted
Condition 1.2.4	Submission of Construction compliance document	Condition 4	Updated to reflect current Condition wording in use
Condition 1.2.5	Specifications of Construction compliance document	Condition 5	Updated to reflect current Condition wording in use
Condition 1.3.1. Table 1.3.1	Waste acceptance specification	Condition 6 and Table 3	Updated to reflect current Condition and Table wording in use
Condition 1.3.2	Treatment of waste that does not meet the waste acceptance criteria	Condition 7	Reference change and reformatted
Condition 1.3.3 and Table 1.3.2	Waste processing	Condition 8 and Table 4	Reference change and reformatted
Condition 1.3.4	Management of Landfill activities	Condition 9	Reference change and reformatted
Condition 1.3.5 and Table 1.3.3	Landfill cover requirements	Condition 10 and Table 5	Reference change and reformatted
Condition 1.3.6	Security measures	Condition 11	Reference change and reformatted
Condition 1.3.7	Installation and maintenance of signage	Condition 12	Reference change and reformatted

Existing licence condition	Condition Summary	Revised licence condition	Conversion notes
Condition 1.3.8	Management of windblown waste	Condition 13	Reference change and reformatted
Condition 1.3.9	Firefighting equipment capable of controlling a tyre fire	Condition 14	Reference change and reformatted
Condition 1.3.10	Containment of fire water	Condition 15	Reference change and reformatted
Condition 1.3.11	Fire water removed by a licenced carrier	Condition 16	Reference change and reformatted
Condition 1.3.12	Unauthorised fires extinguished	Condition 17	Reference change and reformatted
Condition 1.3.13	Tyre stack requirements	Condition 18	Reference change and reformatted
Condition 1.3.14	Tyres stacked on level ground	Condition 19	Reference change and reformatted
Condition 1.3.15	Tyre storage specifications	Condition 20	Reference change and reformatted
Condition 1.3.16	Tyre stacks to not obscure fire protection equipment	Condition 23	Reference change and reformatted
Condition 1.3.17 and Table 1.3.4	Storage of waste within ponds	Condition 24 and Table 7	Reference change and reformatted
Condition 1.3.18	Management of ponds	Condition 25	Reference change and reformatted
Condition 1.2.19 (error in numbering)	Management of spills	Condition 26	Reference change and reformatted
Condition 1.2.20	Management of stormwater	Condition 27	Reference change and reformatted
Condition 1.3.21 (error in numbering)	Ensure integrity of pond lining prior to leachate acceptance	Condition 28	Inserted as part of amalgamation with Amendment Notice 1. Reference change and reformatted
Condition 2.1.1, 2.1.2, 2.1.3, and 2.1.4	General monitoring	Condition 29, 30 and 31 Insertion of Schedule 3: Monitoring	Removed and incorporated into other Conditions and Schedule 3
Condition 2.2.1 and Table 2.2.1	Monitoring of inputs and outputs	Conditions 32 and 33 and Tables 8 and 9	Updated to reflect current Condition and Table wording in use
Condition 2.3.1	Ambient groundwater monitoring	N/A Schedule 3: Monitoring	Removed and incorporated into Schedule 3
Condition 3.1.1	Record keeping	Condition 34	Updated to reflect current Condition wording in use
Condition 3.1.2	Annual Audit Compliance Report	Condition 35	Updated to reflect current Condition wording in use
Condition 3.1.3	Recording of complaints received	Condition 36	Reference change and reformatted
Condition 3.1.4	Maintain a register of Special Waste Type 1 and Special Waste Type 2	Condition 37	Reference change and reformatted

Existing licence condition	Condition Summary	Revised licence condition	Conversion notes
Condition 3.2.1 and Table 3.2.1	Annual Environmental Report	Condition 38 and Table 10	Updated to reflect current Condition and Table wording in use
Condition 3.2.2	Specification of content within Annual Environmental Report	Condition 39	Reference change and reformatted
Condition 3.3.1	Notification requirements	Condition 40 and Table 11	Removal of reference to forms from Table 3.3.1 as no longer in use
N/A Schedule 1	Premises map	Schedule 1: Maps	Premises map replaced by more recent version provided with amendment application
N/A Schedule 1	Map of wastewater, leachate and evaporation ponds	Schedule 1: Maps	Map inserted as part of amalgamation with Amendment Notice 1
N/A Schedule 1	Map of Class III – Cells 1 and 2	Schedule 1: Maps	Map inserted as part of amalgamation with Amendment Notice 1
N/A Schedule 1	Map of tyre storage areas	Schedule 1: Maps	Inserted as part of this amendment
N/A Schedule 1	Monitoring locations	Schedule 3: Monitoring	Monitoring location map replaced by more recent version provided with amendment application, and moved into Schedule 3

**MANAGER WASTE INDUSTRIES
REGULATORY SERVICES**

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

Appendix 1: Premises maps

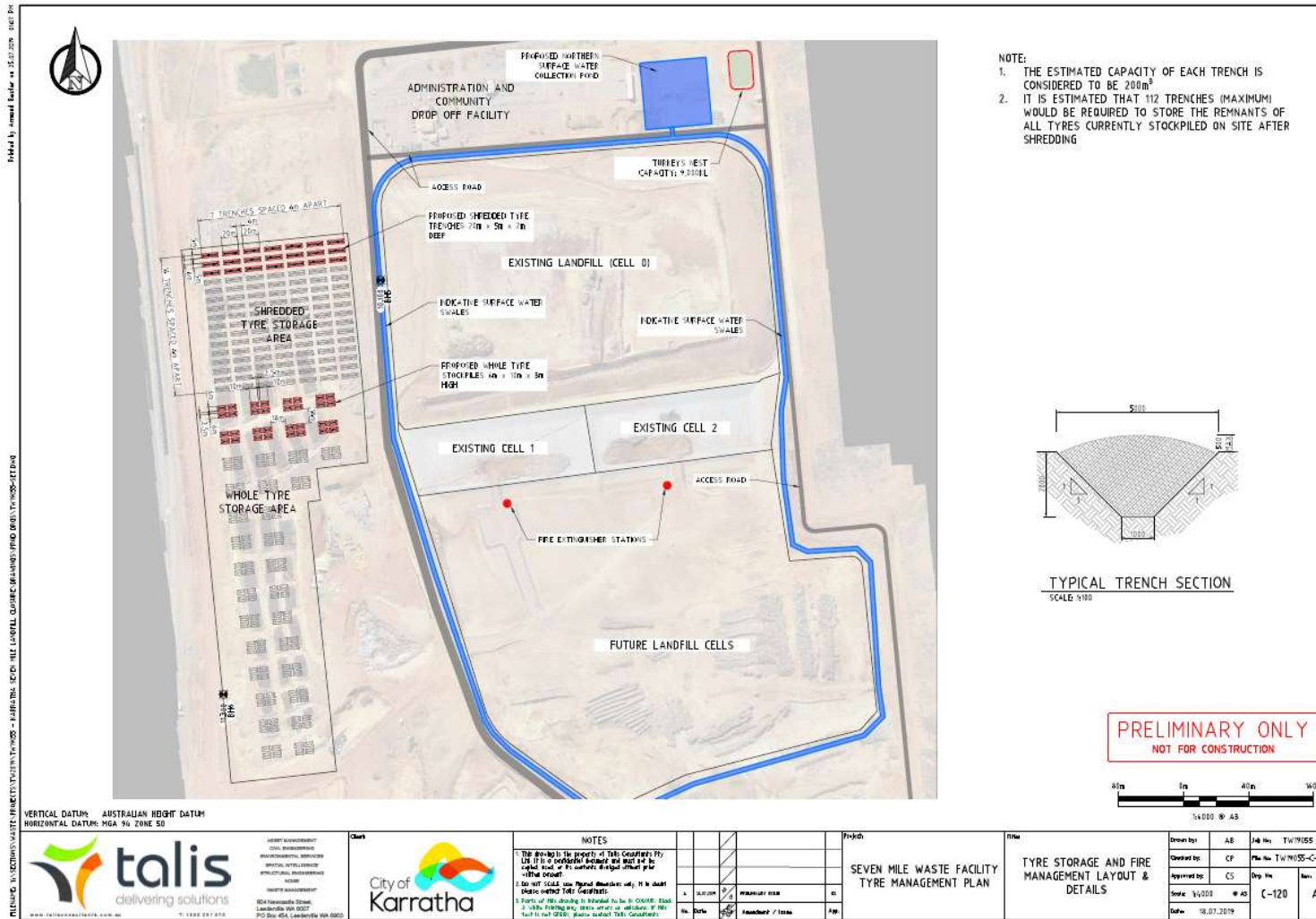


Figure 2: Whole and shredded tyre storage areas

Licence: L7021/1997/15

IR-T08 Amendment Notice (Major) template v2.0 (July 2017)

Appendix 2: Key Documents

Document title	In text ref	Availability
Licence L7021/1991/15 – Seven Mile Waste Disposal Facility	Existing Licence	accessed at www.dwer.wa.gov.au
Amendment Notice 1 – Seven Mile Waste Disposal Facility (L7021/1991/15)	Amendment Notice 1	
Tyre Fire Management Plan – City of Karratha	Tyre Fire Management Plan	DWER records (DWERDT183066)
DER, July 2015. <i>Guidance Statement: Regulatory principles.</i> Department of Environment Regulation, Perth.	N/A	accessed at www.dwer.wa.gov.au
DER, October 2015. <i>Guidance Statement: Setting conditions.</i> Department of Environment Regulation, Perth.	N/A	
DER, November 2016. <i>Guidance Statement: Risk Assessments.</i> Department of Environment Regulation, Perth.	N/A	
DWER, June 2019. <i>Guideline: Decision Making.</i> Department of Water and Environment Regulation, Perth.	N/A	