



Decision Document

Environmental Protection Act 1986, Part V

Proponent: City of Kalgoorlie-Boulder

Licence: L5979/1993/11

Registered office: 577 Hannan Street
KALGOORLIE WA 6430

Premises address: Yarri Road Refuse Facility
Lot 251 on Plan 190202
KALGOORLIE WA 6430

Issue date: Thursday, 7 April 2016

Commencement date: Thursday, 14 April 2016

Expiry date: Sunday, 13 April 2036

Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue a Licence. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by:

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Decision Document authorised by:

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Delegated Officer



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1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.



2 Administrative summary

Administrative details									
Application type	Works Approval <input type="checkbox"/> New Licence <input checked="" type="checkbox"/> Licence amendment <input type="checkbox"/> Works Approval amendment <input type="checkbox"/>								
Activities that cause the premises to become prescribed premises	<table border="1"> <thead> <tr> <th>Category number(s)</th> <th>Assessed design capacity</th> </tr> </thead> <tbody> <tr> <td>57</td> <td>2,500 tyres at any time</td> </tr> <tr> <td>62</td> <td>10,000 tonnes per year</td> </tr> <tr> <td>64</td> <td>150,000 tonnes per year</td> </tr> </tbody> </table>	Category number(s)	Assessed design capacity	57	2,500 tyres at any time	62	10,000 tonnes per year	64	150,000 tonnes per year
	Category number(s)	Assessed design capacity							
	57	2,500 tyres at any time							
	62	10,000 tonnes per year							
64	150,000 tonnes per year								
Application verified	Date: 02/02/2016								
Application fee paid	Date: 26/02/2016								
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>								
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>								
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>								
Commercial-in-confidence claim outcome	N/A								
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>								
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>								
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Ministerial statement No: EPA Report No:								
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>								
Is the Premises within an Environmental Protection Policy (EPP) Area	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.								
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, eg Site is subject to SO ₂ requirements of Kwinana EPP.								



3 Executive summary of proposal and assessment

The Yarri Road Refuse Facility is a Class II Putrescible landfill, accepting up to 150,000 tonnes of waste per annum, including mixed municipal solid, commercial, industrial and construction waste. The site was opened in May 1993 and operation of the facility was handed to Grosvenor Lodge AFC via contract on 1 July 1999.

The site is located 7 kilometres north-east of Kalgoorlie-Boulder, with the closest neighbours being the Goldfields Aeromodellers Club Inc. approximately 200 metres south-west, and some rural properties at 900 metres south-east. The closest residential premises are located at Ninga Mia, being approximately 2.5 kilometres to the south-west. The site occupies approximately 64 hectares.

The landfill is clay lined.

During the 2016 reporting period the water table depth varied between 19.69 and 26.12 metres below ground level.

The following activities are carried out at the landfill:

- Receipt and disposal of household and commercial waste
- Receipt and disposal of Special Waste Type 1
- Receipt and disposal of Special waste type 2
- Receipt and disposal of Inert Waste Type 1
- Receipt and disposal of Inert Waste Type 2
- Receipt of unprocessed greenwaste
- Mulching of received greenwaste
- Stockpiling of scrap metal car bodies
- Stockpiling of tyres
- Stockpiling of daily cover material
- Stockpiling of white wares

The Licensee also has an agreement with Techcollect™, entered under the National Television and Computer Recycling Scheme (NTCRS), that enables households and businesses to drop off their end-of-life electronic goods free-of-charge. All goods accepted under this agreement are stored in a 40 foot container at the entrance to the landfill (post-weighbridge) that will be removed by Techcollect™ when the container is full.

The main emissions generated from the premises are odour, dust and landfill gas. It is anticipated that these emissions can be adequately managed under the provisions of the *Environmental Protection Act 1986* and mitigation measures put in place by the Licensee.

This Licence is the successor to licence L6297/1993/10 and includes changes to conditions in accordance with DER's latest licensing template and licensing processes.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	L1.2.1	<p><u>Emission Description</u> <i>Emission:</i> Stormwater contaminated from onsite operations. <i>Impact:</i> Contamination of surrounding land and surface water drainage systems. <i>Controls:</i> Stormwater drains have been constructed to capture stormwater that falls onto the roadways and the site in general.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> Previous Licence conditions W1-W3 which required the management of uncontaminated and contaminated stormwater has been converted to Condition 1.2.1 requiring the Licensee to maintain a surface water management system that prevents stormwater run-off from becoming contaminated by waste on the Premises.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p>	Application supporting documentation



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Premises operation	1.3.1 - 1.1.13	<p>Licence condition 1.3.1 has been added to the Licence which requires the investigation of any waste acceptance, processing or cover limit exceedances.</p> <p>Licence condition 1.3.2 which replaces previous Licence condition G2A outlines the waste types and maximum amount for acceptance at the site.</p> <p>Licence condition 1.3.3 has been added to the Licence to ensure that where waste does not meet the acceptance criteria it is stored in an appropriate area of the premises and removed to an authorised facility to reduce the potential for a discharge or an emission to the environment.</p> <p>Licence condition 1.3.4 which replaces previous Licence conditions G3 has been added to the Licence to ensure that all wastes at the premises is subjected to certain processes.</p> <p>Licence condition 1.3.5 has been added to the Licence which requires the Licensee to manage all landfilling activities.</p> <p>Licence condition 1.3.6 has been added to the Licence which requires the Licensee to apply and maintain sufficient cover for landfill wastes.</p> <p>Licence condition 1.3.7 has been added to the Licence to ensure there is adequate security measures in place to prevent authorised access at the site which in turn will be reduce the potential for public health risks and the potential for unauthorised discharges from the site. This condition was based on previous Licence conditions G4(a), G4(b) and G4(c)</p> <p>Licence condition 1.3.8 and 1.3.9 which replaces previous Licence conditions G5(a)-G5(c) requires the Licensee to take all reasonable and practical measures to ensure that no wind-blown waste escapes from the Premises and that wind-blown waste is</p>	Application supporting documentation



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>collected on at least a monthly basis and returned to the tipping area.</p> <p>Licence condition 1.3.10 which replaces previous Licence condition G6 requires the Licensee to install and maintain a sign at the entrance of the Premises which clearly displays the hours of operation, contact telephone number, warning indicating penalties for people lighting fires and list of materials accepted for recycling and the location of where they can be deposited on the premises.</p> <p>Licence condition 1.3.11 has been added to the Licence to ensure the Licensee implements control measures to prevent infestations of pests, flies and vermin at the Premises.</p> <p>Licence condition 1.3.12 which replaces previous Licence condition A4 requires the Licensee to extinguish any unauthorised fire that may occur within the non-greenwaste area at the landfill site within eight hours of being notified of the fire.</p> <p>Licence condition 1.3.13 which replaces previous Licence condition A5 requires the Licensee to ensure that there are appropriate procedures in place at the Premises so that any unauthorised fire is promptly extinguished.</p> <p>Licence condition 1.3.14 which replaces previous Licence condition A2 prevents the burning of non-green waste on the premises.</p> <p>Previous Licence condition G15 and G16 requires the Licensee to make available to any person, tyres for recycling, reuse for any other purpose approved of by the CEO (which are surplus to the Licensees own requirements), prior to disposal. This condition is no longer consistent with DER Licensing processes and was removed.</p> <p>While there are no air or water emissions expected during normal operations for category 57 activities, however in the event of fire, significant amounts of wastewater (fire water) and smoke would be generated. Licence conditions 1.3.15 and 1.3.16 were</p>	



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>added to manage any fire water generated.</p> <p><u>Emission Description</u> <i>Emission:</i> Smoke emission in the event of fire. <i>Impact:</i> Potential impact on surrounding flora and fauna and nearby sensitive receptors from smoke inhalation. Potential irritation to eyes from smoke and other pollutants released when the tyres are burnt. <i>Controls:</i> The License renewal application did not contain any information on controls relating to tyre fire.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> Tables 1.3.2 and 1.3.3 specify how tyres must be stored or buried to reduce both risk of fire beginning, and to assist in efficiently extinguishing a fire.</p> <p>Licence condition 1.3.7 which replaces previous Licence conditions G4 (a) – G4 (c) requires a security fence to be maintained around the premises and regular inspections undertaken to ensure no unauthorised access to prevent unauthorised fires or vandalism of firefighting controls.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p>	



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p><u>Emission Description</u> <i>Emission:</i> Fire wastewater generated in the event of fire. <i>Impact:</i> Contamination of surrounding land. Potential impacts on surrounding flora and fauna. <i>Controls:</i> The License renewal application does not specify any wastewater controls relating to tyre fire.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> Condition 1.3.15 has been added to the Licence to prevent the accumulation of any stormwater within the tyre storage catchment area.</p> <p>Condition 1.3.16 has been added to the Licence to ensure that firewater is removed from the Premises by a carrier Licensed under the <i>Environmental Protection (Controlled Waste) Regulations 2004</i>.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p> <p>Previous Licence condition G2 (C) (i) specified that any asbestos material must be wrapped in heavy duty plastic prior to acceptance at the landfill. However in order to avoid any duplication relating to the transportation of asbestos containing materials (since legislative requirements are now stipulated under Regulation 44 of the <i>Environmental Protection (Controlled Waste) Regulations 2004</i>). This requirement has</p>	



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		<p>been removed from the Licence.</p> <p>Previous Licence conditions relating to Liquid chemical storage and Bioremediation of hydrocarbon contaminated soils are redundant now and will not be transferred to the new Licence.</p>	
Dust	N/A	Fugitive emissions of dust can be sufficiently regulated under section 49 of the Environmental Protection Act 1986. In accordance with DER's licensing process, no specified conditions for fugitive emissions have been included on this licence.	<i>Environmental Protection Act 1986.S49</i>
Odour	N/A	Odour can be sufficiently regulated under section 49 of the <i>Environmental Protection Act 1986</i> . In accordance with DER's licensing process, no specified conditions for fugitive emissions have been included on this licence.	<i>Environmental Protection Act 1986.S49</i>
Noise	N/A	Noise is not expected to be an issue at the premises. Premises is situated in an industrial area. The provisions of the <i>Environmental Protection (Noise) Regulations 1997</i> will apply.	<i>Environmental Protection Act 1986.S49</i>
Monitoring	L2.2.1	Licence condition 2.2.1 has been added to the Licence which requires the Licensee to record waste types coming into the Facility and waste types leaving or rejected from the Facility.	N/A
	L2.3.1	Previous Licence condition W6 (a) relating to groundwater monitoring has been converted to condition 2.3.1.	
Improvements	N/A	Consistent with DER's licensing protocol, this section was deleted because it did not contain any conditions.	N/A
Information	L3.1.1 – L3.1.5 L3.2.1 – L3.2.2	<p>Licence condition 3.1.1 has been added to the Licence to ensure all records required by the Licence are retained and be made available.</p> <p>Licence condition 3.1.2 has been added to the Licence, which replaces condition G11 of the previous Licence, requires the submission of the Annual Audit Compliance Report which is to outline the extent to which the conditions of the Licence has been complied with during the annual period.</p>	N/A



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Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>Licence condition 3.1.3 has been added to the Licence which requires the licensee to manage and maintain a complaints registry.</p> <p>Licence condition 3.1.4 has been added to the Licence to ensure the Licensee maintain records of all waste types received and dispatched onsite. These records will be required to be submitted to DER upon the CEO's request.</p> <p>Licence condition 3.1.5 has been added to the Licence to ensure that records are made of rejected loads including details of the waste producer, waste carrier, registration number of the vehicle and the date and reason for rejection.</p> <p>Licence condition 3.2.1 has been added to the Licence which replaces previous Licence condition G7 outlines the requirement to submit to DER an annual environmental report.</p> <p>Licence condition 3.2.2 has been added to the Licence to ensure non annual reporting requirements are also submitted to DER.</p>	
Licence Duration	N/A	The licence has been issued for 20 years in accordance with DER's Guidance Statement: Licence Duration, November 2014.	DER Guidance statement: Licence duration.



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
7/03/2016	Application advertised in West Australian (or other relevant newspaper)	No comments received	N/A
31/03/2016	Draft sent to proponent	Minor comments/wording suggestions received. 600 mm waste cover is locked in with facility operators under contract.	Comments incorporated into documents Relevant cover requirements changed to 600 mm.



6 Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management

Table 1: Emissions Risk Matrix

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High