



## Application for Licence Amendment

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

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<b>Licence Number</b>	L6756/1996/11
<b>Licence Holder</b>	Shire of Waroona
<b>File Number</b>	2010/002299-1
<b>Premises</b>	Buller Road Refuse Disposal Site  702 Buller Road WAROONA WA 6215  Legal description –  Lot 1701 on Plan 214632  As defined by the Premises map attached to the Revised Licence
<b>Date of Report</b>	13 October 2023
<b>Proposed Decision</b>	Intent to grant revised licence

**MANAGER, WASTE INDUSTRIES  
REGULATORY SERVICES**

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

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## 1. Decision summary

Licence L6756/1996/11 is held by the Shire of Waroona (Licence Holder) for the Buller Road Refuse Disposal Site (the Premises), located at 702 Buller Road, Waroona.

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 operation of the Premises. As a result of this assessment, Revised Licence L6756/1996/11 has been granted.

## 2. Scope of assessment

### 2.1 Regulatory framework

In completing the assessment documented in this Amendment Report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

### 2.2 Application summary

On 25 July 2023, the Licence Holder applied to the department to amend Licence L6756/1996/11 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- Addition of Category 62: Solid waste depot to the current licence following completion of a waste drop-off shed constructed under Works Approval W6749/2022/1; and
- Acceptance of small quantities of household hazardous waste for material recovery including:
  - Batteries (automotive) – no more than 80 at any one time;
  - E-waste – limited to TV's and computers (whole units) – maximum 2 tonnes at any one time;
  - Tyres – no more than 100 at any one time;
  - Mattresses – no more than 50 at any one time; and
  - Waste Oil – From residents within the Shire of Waroona only (not commercial facilities) - Estimated 2,400L every 6-8 months (no more than 5,000L per annum).

The waste drop-off shed will be used by daily users of the facility, removing public access to the active landfill cell. It will also allow the gatehouse staff to search the waste to ensure any salvageable or hazardous material is removed prior to being disposed at landfill.

This amendment is limited only to the addition of Category 62. No changes to the aspects of the existing Licence relating to Category 64 have been requested by the Licence Holder.

Table 1 below outlines the proposed changes to the existing Licence.

**Table 1: Proposed throughput capacity changes**

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
62	N/A	3,000 tonnes per annum	Addition of Category 62: Solid waste depot
64	10,000 tonnes per annum	10,000 tonnes per annum	No changes proposed.

### 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 2020).

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 operation which have been considered in this Amendment Report are detailed in Table 2 below. Table 2 also details the proposed control measures the Licence Holder has proposed to assist in controlling these emissions, where necessary.

**Table 2: Licence Holder controls**

Emission	Sources	Potential pathways	Proposed controls
Fugitive odour	Temporary storage of waste	Air / windborne pathway	Waste will be removed from the transfer shed at the end of each day.
Noise	Operation of machinery and vehicle movements associated with the handling and disposal of waste.	Air / windborne pathway	Hours of work limited to weekdays between 8:00am and 3:00pm. Machinery only operated as required. All vehicle noise reduction measures will be maintained in good working order. Targets and limits as defined in the <i>Environmental Protection (Noise) Regulations 1997</i> .
Dust	Vehicle movements and machinery	Air / windborne pathway	Waste is placed in a defined area or area enclosed in a bund. Water cart onsite used to suppress dust if required.
Litter / windblown waste	Unloaded wastes onsite	Air / windborne pathway	Waste will be removed from the transfer shed at the end of each day.
Leachate	Temporary storage of putrescible waste in transfer shed	Seepage to soils and groundwater	Transfer shed floor contains a concrete base and concrete push walls. Clean stormwater is directed away from any areas where waste is present. Additional groundwater monitoring bores installed to monitor impacts. Groundwater monitoring undertaken in accordance with licence conditions.
	Batteries		Stored under a shelter with a waste bund to contain leaks and/or spills. The shelter is portable and situated on a hardstand area (consisting of a two coat bitumen seal). Batteries are not to exceed a two-level limit with a

Emission	Sources	Potential pathways	Proposed controls
			maximum storage of 80 at a time.
	E-Waste		<p>Limited to TV's and computers (whole units).</p> <p>To be stored in cages provided by Total Green Recycling under a shelter with waste bund to contain leaks.</p> <p>The shelter is portable and situated on a hardstand area (consisting of a two coat bitumen seal).</p> <p>Three cages will be stored on the facility at a time with the third cage being the spare for when the cages are full and scheduled for recovery.</p> <p>Recovery is expected to occur monthly initially.</p> <p>Maximum 2 tonnes on site at a time.</p>
	Tyres		<p>Tyres to be stored in a caged area constructed on the hardstand area (consisting of a two-coat bitumen seal).</p> <p>Storage limited to 100 passenger vehicle tyres at a time.</p> <p>Recovery will be through an authorised facility.</p>
	Mattresses		<p>Mattresses recovered and recycled as part of the biennial hard waste collection with stockpile not to exceed 50.</p> <p>To be stockpiled on the hardstand area (consisting of a two-coat bitumen seal). Prior to being sent offsite for recycling.</p> <p>Recovery of mattresses occurring every 6-8 months.</p>
	Waste Oil		<p>Estimated 2,400 L recovered by Wren Oil every 6-8 months.</p> <p>The waste oil bund consists of portable shelter with a waste bund to contain leaks. The bund is stored on a limestone hardstand.</p> <p>Residents are allowed to dispose of sealed 20L containers, free from leaks and defects. Larger quantities are disposed of by charge (e.g. local farmers disposing large 20kg drums and occasional 44 gallon drum). These are emptied into the bund.</p>
Contaminated stormwater	Stormwater	Overland runoff and seepage	Clean stormwater is directed away from any areas where waste is present.
Fire / smoke	Combustible materials stored onsite		<p>Limits on quantities of potentially combustible material stored onsite.</p> <p>Firefighting infrastructure consisting of: Fire Hydrant, portable water tanks and belowground standpipe.</p>

### 3.1.2 Receptors

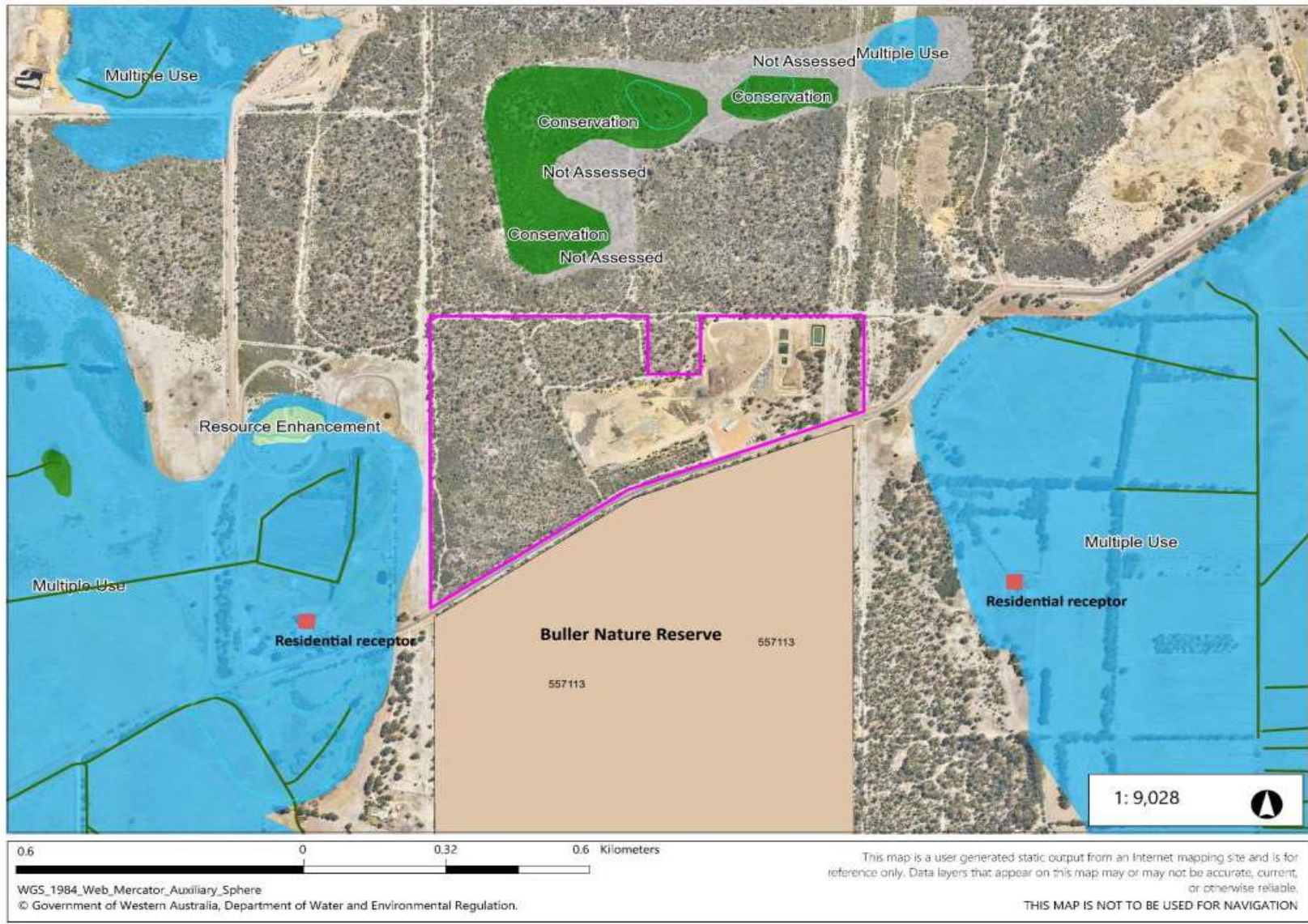
In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Licence Holder's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 3 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental siting* (DWER 2020)).

**Table 3: Sensitive human and environmental receptors and distance from prescribed activity**

Human receptors	Distance from prescribed activity
Residential premises	~220m south-east of the Premises boundary ~480m south-west of the Premises boundary
Environmental receptors	Distance from prescribed activity
Multiple use category wetland, palusplain	Adjacent to eastern boundary of the Premises
Conservation category wetland, sump land	~90m north of the Premises
Buller Nature Reserve	Adjacent to southern boundary of the Premises
Peel Harvey Environmental Protection Policy area	Premises located within policy area
Threatened Ecological Community – Banksia Dominated Woodlands of the Swan Coastal Plain	Mapped within, and adjacent to, the Premises boundary
Murray Groundwater Area – area proclaimed under the Right in Water and Irrigation Act 1914	Premises located within proclaimed area
Major surface water drain	~140m east of the Premises boundary
Groundwater	Depth to groundwater ~13-18m
Groundwater bores - beneficial use	~900m south-east of the Premises boundary
Buller Nature Reserve	Adjacent to southern boundary of the Premises





**Figure 1: Distance to sensitive receptors**

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## 3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) 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 4.

The Revised Licence L6756/1996/11 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises i.e. Category 64 and Category 62 activities.

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



**Table 4. Risk assessment of potential emissions and discharges from the Premises during operation**

Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions <sup>2</sup> of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
Operation of waste transfer/acceptance area	Odour	Air/windborne pathway causing impacts to amenity	Residential premises	Refer to Section 3.1.1	C = Minor L = Unlikely <b>Medium Risk</b>	Y	Existing licence condition 4 (amended)	A condition will be included in the licence ensuring waste is removed from the transfer shed by the end of the day.
	Noise	Air/windborne pathway causing impacts to health and amenity	Residential premises Buller Nature Reserve TEC	Refer to Section 3.1.1	C = Slight L = Rare <b>Low Risk</b>	Y	N/A	The Delegated Officer has considered the risk of noise impacting sensitive receptors as not foreseeable due to the separation distance between the source and receptors.  Noise emissions can be adequately managed by the <i>Environmental Protection (Noise) Regulations 1997</i> .
	Dust	Air/windborne pathway causing impacts to health and amenity	Residential premises Buller Nature Reserve TEC	Refer to Section 3.1.1	C = Slight L = Rare <b>Low Risk</b>	Y	N/A	The new waste drop-off area is located on bitumen surface.  The Delegated Officer considers it unlikely that dust emissions from the operation of the waste drop-off shed and HHW storage areas will impact sensitive receptors.  No additional controls are required.
	Windblown litter	Air / wind dispersion of waste causing visual amenity and nuisance impacts		Refer to Section 3.1.1	C = Minor L = Unlikely <b>Medium Risk</b>	Y	Existing licence condition 5	The existing licence conditions are considered appropriate to manage the risk of windblown waste impacting receptors.
	Spills of environmentally hazardous materials including	Overland runoff Infiltration through soil profile to groundwater	Buller Nature Reserve TEC	Refer to Section 3.1.1	C = Moderate L = Unlikely	Y	New licence condition 13	An additional condition has been included in the Licence to ensure that spills of environmentally hazardous

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Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions <sup>2</sup> of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
	fuel, oil and other hydrocarbons	impacting beneficial uses associated with quality of water in the aquifer.	Groundwater		<b>Medium Risk</b>			materials are quickly managed.
	Leachate	Infiltration through soil profile to groundwater causing potential impacts on ecological values and beneficial uses associated with quality of water in the aquifer.		Refer to Section 3.1.1	C = Moderate L = Possible <b>Medium Risk</b>	Y	New licence condition 1 Existing Licence conditions 2 and 4 (amended)	Additional requirements included in the licence to ensure that wastes are stored appropriately and removed within specified timeframes.  Quantity storage limits will also be included for some types of waste.
	Contaminated Stormwater	Overland runoff potentially causing ecosystem disturbance or impacting surface water quality		Refer to Section 3.1.1	C = Moderate L = Unlikely <b>Medium Risk</b>	Y	New licence condition 1 Existing licence condition 7 New licence condition 13	Additional requirements relating to infrastructure and storage requirements of waste have been included in the revised licence.  Existing licence condition 7 requires uncontaminated stormwater to be managed so as to prevent contamination.
Storage of potentially combustible materials	Fire/smoke from fire	Air/wind dispersion of particulate matter resulting in health and amenity impacts to sensitive receptors	Residential premises Buller Nature Reserve TEC	Refer to Section 3.1.1	C = Moderate L = Unlikely <b>Medium Risk</b>	Y	Existing licence condition 6	The existing licence conditions are considered appropriate to manage the risk of unauthorised fires at the premises.  Storage limits have been included for tyres and mattresses to reduce the quantity of combustible materials onsite in the event of a fire. These limits are consistent with those proposed by the Licence Holder.

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2020).

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

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IR-T15 Amendment report template v3.0 (May 2021)

## 4. Consultation

The Licence Holder was provided with the draft documents on 5 October 2023. On 9 October 2023 the Licence Holder provided some additional information as requested by the Delegated Officer and advised that they were happy to waive the remaining comment period.

The Licence has been revised to include a revised map for the Recycle Centre and to clarify the residential waste oil throughput as 5,000L per annum at a maximum. No other changes have been made.

## 5. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that a Revised 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.

**Table 5: Summary of licence amendments**

Condition no.	Proposed amendments
1 (new)	Addition of infrastructure and equipment requirements for the completed transfer shed and additional storage areas relevant for household hazardous waste acceptance.
2 (existing)	Waste acceptance table revised to reflect category 62 operations and to include the acceptance of some household hazardous waste.
4 (existing)	Waste processing table revised to include requirements for category 62 operations. Requirements include storage specifications and quantity limits for some waste types.
13 (new)	Addition of conditions requiring the Licence Holder to immediately recover, or remove and dispose of, spills of environmentally hazardous materials.
Definitions	The definitions section has been updated to include the following: <ul style="list-style-type: none"><li>• ACM</li><li>• Acceptance Criteria</li><li>• DrumMUSTER</li><li>• E-waste</li></ul>
General	Condition and table numbering throughout the licence have been updated to reflect these amendments.
Schedule 1: Maps	Updated to include a map of the Recycle Centre

## 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.

## Appendix 1: Application validation summary

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)							
<b>Application type</b>							
Works approval	<input type="checkbox"/>						
Licence	<input type="checkbox"/>	Relevant works approval number:	W6749/2022/1	None	<input type="checkbox"/>		
		Has the works approval been complied with?			Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
		Has time limited operations under the works approval demonstrated acceptable operations?			Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
		Environmental Compliance Report / Critical Containment Infrastructure Report submitted?			Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
		Date Report received: 17 July 2023					
Renewal	<input type="checkbox"/>	Current licence number:					
Amendment to works approval	<input type="checkbox"/>	Current works approval number:					
Amendment to licence	<input checked="" type="checkbox"/>	Current licence number:	L6756/1996/11				
		Relevant works approval number:	W6749/2022/1	N/A	<input type="checkbox"/>		
Registration	<input type="checkbox"/>	Current works approval number:		None	<input type="checkbox"/>		
Date application received		25 July 2023					
<b>Applicant and Premises details</b>							
Applicant name/s (full legal name/s)		Shire of Waroona					
Premises name		Buller Road Refuse Disposal Site					
Premises location		702 Buller Rd WAROONA WA 6215 Being Lot 1701 on Plan 214632					
Local Government Authority		Shire of Waroona					
<b>Application documents</b>							
HPCM file reference number:		DWERDT816858 and DWERDT827016					
Key application documents (additional to application form):		<ul style="list-style-type: none"> <li>L6756 Licence Amendment – Request for Further Info – 28.08.2023 (DWERDT827016)</li> <li>Supporting Information – Revised (DWERDT827016)</li> <li>Fire Water Supply Map (DWERDT827016)</li> <li>8607-C-900 (General Arrangement Concept Design Plan) (DWERDT827016)</li> </ul>					
<b>Scope of application/assessment</b>							

Summary of proposed activities or changes to existing operations.	<p>Licence amendment for the operation of the solid waste acceptance and transfer shed constructed under Works Approval W6749/2022/1.</p> <p>Amendments are also requested to allow for the acceptance and temporary storage of small quantities of:</p> <ul style="list-style-type: none"> <li>- Batteries – automotive</li> <li>- E-waste (Tv’s and computers)</li> <li>- Tyres</li> <li>- Mattresses; and</li> <li>- Waste Oil</li> </ul>
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Category number/s (activities that cause the premises to become prescribed premises)

**Table 1: Prescribed premises categories**

Prescribed premises category and description	Proposed/ assessed production or design capacity	Proposed changes to the production or design capacity
Category 62: Solid waste depot	3,000 tonnes per annum	Addition of new category
Category 64: Class II putrescible landfill	10,000 tonnes per annum	No changes proposed

**Legislative context and other approvals**

Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: N/A Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: N/A EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No: N/A
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Certificate of title <input type="checkbox"/> General lease <input type="checkbox"/> Expiry: Mining lease / tenement <input type="checkbox"/> Expiry: Other evidence <input type="checkbox"/> Expiry:
Has the applicant obtained all relevant planning approvals?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	CPS No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: N/A Licence/permit No: N/A No clearing is proposed.



<p>Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Application reference No: N/A Licence/permit No: Licence / permit not required.</p>
<p>Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Name: N/A Type: N/A Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Regional office: N/A</p>
<p>Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Name: N/A Priority: N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to <a href="#">WQPN 25</a>)? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/></p>
<p>Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act</i>)</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Environmental Protection (Controlled Waste) Regulations 2004 – controlled waste is accepted at the premises (K210 and K110)</p>
<p>Is the Premises within an Environmental Protection Policy (EPP) Area?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Located within the Peel Harvey Environmental Protection Policy area</p>
<p>Is the Premises subject to any EPP requirements?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i>?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Classification: possibly contaminated – investigation required (PC–IR) Date of classification: 30/08/2017</p>