Amendment Report

Application for Licence Amendment

Part V Division 3 of the Environmental Protection Act 1986

Licence Number L9159/2018/2

Licence Holder City of Cockburn

File Number DER2018/001433~9

Premises Henderson Waste Recovery Park

920 Rockingham Road

WATTLEUP WA 6166

Legal description -

Lot 202 on Deposited plan 60443, Lot 2 on

Diagram 17988 and Lot 235 on Deposited Plan

226117

Date of Report 11 October 2023

Decision Revised licence granted

Abbie Crawford

A/MANAGER, WASTE INDUSTRIES

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

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1. Decision summary

Licence L9159/2018/2 is held by City of Cockburn (Licence Holder) for the Henderson Waste Recovery Park (the Premises), located at 920 Rockingham Road, Wattleup.

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 L9159/2018/2 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 28 February 2023 the Licence Holder submitted an application to the department to amend Licence L9159/2018/2 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act).

The applicant requested to amend hazardous waste acceptance, process specification and storage requirements. As part of the amendment, the department undertook a site inspection of the premises on 21 June 2023. It was noted that e-waste, waste oil and mattresses were also being stored at the Premises outside of the approved waste acceptance criteria. Subsequently, the applicant requested that e-waste, waste oil and mattresses be added to the licence as part of the amendment.

As part of this amendment the department has updated the format and appearance of the waste acceptance table and corrected any identified clerical mistakes or unintentional errors. The obligations of the Licence Holder have not changed as a result of amending the waste acceptance table and no further risk assessment was undertaken.

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

Table 1: Licence Holder controls

Emission	Sources	Potential pathways	Proposed controls
Dust Noise		Air/windborne pathway causing impacts to health and amenity	No additional controls were proposed. The existing Licence includes various controls and infrastructure for the management of dust and noise.
Spills or leaks of hazardous wastes		Overland flow and seepage to soils and groundwater	Hazardous wastes will only be accepted with limits of 20 kilograms (solid wastes) or 20 litres (liquid wastes). No more than 100 litres of
Leachate		Overland flow and seepage to soils and groundwater	paint will be accepted per visit. Paint to be stored in self-bunded undercover containers.
	Acceptance and storage of		The existing Licence includes various controls and infrastructure for the management of leachate and spills.
	hazardous waste e-waste and		All incompatible waste type to be stored separately.
Fire/smoke	waste oil for storage pending removal from site	Air/windborne pathway	Fire extinguishers, gas cylinders will be stored in the metal cages on the waste transfer station.
			Vehicle batteries, household batteries and aerosol cans stored in separate containers on the waste transfer station.
			E-waste collected in metal cages and waste oil stored within a self-bunded container on the transfer station.
Firewater		Overland flow and seepage to soils and groundwater	No additional controls were proposed. The existing Licence includes various controls and infrastructure for the management of firewater.
Dust			No additional controls were proposed. The existing Licence includes various
Noise		Air/windborne pathway	controls and infrastructure for the management of dust and noise.
Fire/smoke	Fire/smoke		A maximum of 130 mattresses will be
Leachate	Acceptance of mattresses for		stored at the premises at any one time.
Firewater	storage pending removal from site	Overland flow and seepage to soils and groundwater	Mattresses stored on the transfer station located on top of temporarily capped lined landfill Cells 4 and 5. The existing Licence included various controls and leachate management infrastructure for landfill cells for management of potentially contaminated stormwater, fire water and spills.

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 2 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 2: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity		
Private residence	Approximately 25 m northeast from premises boundary and approximately 300 m from transfer station activities.		
Commercial premises	Approximately 20 m north of the premises boundary and approximately 145 m from transfer station activities.		
Environmental receptors	Distance from prescribed activity		
Groundwater	Groundwater beneath the premises has been observed at depths between 7 and 18 metres below ground level. Relative standing water level ranged from 0.48 to 1.1 m AHD.		
Beneficial users of groundwater	Local groundwater flow direction is inferred to be in a south-west direction. Approximately 230 groundwater abstraction licenses are located within a 500 m radius of the premises with abstraction predominately from the Superficial and Leederville. Aquifers.		
RIWI Act Groundwater Area	The Premises is within the proclaimed Cockburn Groundwater Area.		
Bush Forever Site 346	Approximately 150 m west of premises boundary.		
Threatened and Priority Ecological Communities (TEC/PEC)	Northern Spearwood shrublands and woodlands, and Tuart (<i>Eucalyptus gomphocephala</i>) woodlands and forests of the Swan Coastal Plain located approximately 150 m west of the premises boundary		
Threatened Fauna	Identified surrounding the premises (Calyptorhynchus latirostris, Tringa nebularia, Isoodon fusciventer, Lerista lineata) indicating that native vegetation may be providing habitat.		
DBCA Legislated Tenure	Conservation Park located approximately 200m west of the premises boundary.		
Regional Parks	Beeliar Regional Park located approximately 150 m west of the premises boundary.		
Geomorphic Wetlands- Swan Coastal Plain (Management)	Brownman Swamp – Approximately 320m west of the premises boundary Lake Mount Brown – Approximately 525m south-west of the premises boundary		

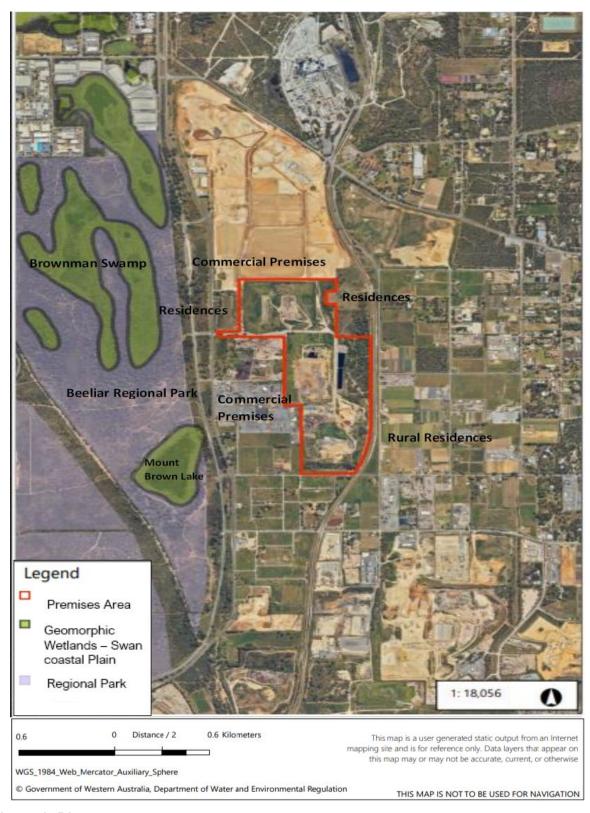


Figure 1: Distance to receptors

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 3.

The Revised Licence L9159/2018/2 that accompanies this Amendment Report authorises emissions associated with of the acceptance of hazardous waste, waste oil, e-waste and mattresses.

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

Table 3: Risk assessment of potential emissions and discharges from the Premises during operation

Risk Event						Licence	Licence	
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Operation								
Acceptance and storage of hazardous wastes, waste oil and e-waste.	Dust	Air/windborne pathway causing impacts to health and amenity	Residential properties located ~25 m northeast from premises boundary Commercial properties located ~ 20 m north of the premises boundary Threatened/priority ecological community and threatened fauna identified surrounding the premises. Geomorphic wetlands	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Yes	Conditions 3 and 9	The Delegated Officer considers dust emissions associated with the acceptance and storage of hazardous wastes, waste oil and e-waste can be adequately regulated by the general provisions of the EP Act.
	Noise		located ~ 320m west of the premises boundary DBCA land tenure located ~200m west of the premises boundary	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Yes	N/A	The Delegated Officer considers dust emissions associated with the acceptance and storage of hazardous wastes, waste oil and e-waste can be sufficiently managed through the Environmental Protection (Noise) Regulations 1997.

Risk Event	Risk Event							
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
	Spills or leaks of environmentally hazardous wastes and/or Leachate	Overland runoff potentially causing ecosystem disturbance or impacting stormwater quality Seepage into underlying soils causing localised contamination. Infiltration into groundwater potentially causing ecosystem disturbance or impacting groundwater quality.	Underlying groundwater of the Cockburn Groundwater Area. Threatened/priority ecological community buffers and threatened fauna surrounding the Premises. Geomorphic wetlands located ~ 320m west of the premises boundary DBCA land tenure located ~200m west of the premises boundary.	Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Yes	Condition 1, 3, 15, 16 and 17	The Delegated Officer considers that the Applicant's proposed controls and the current conditions within the existing licence are likely to be sufficient at mitigating emissions from spills or leaks of environmentally hazardous wastes and/or Leachate
Acceptance and storage of hazardous wastes, waste oil and e-waste.	Potentially contaminated stormwater			Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Yes	Condition 1, 3, 15, 16 and 17	The Delegated Officer considers that the Applicant's proposed controls and the current conditions within the existing licence are likely to be sufficient at mitigating emissions from potentially contaminated stormwater
	Firewater			Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Yes	Condition 1,3, 15,16 and 17	The Delegated Officer considers that the Applicant's proposed controls and the current conditions within the existing licence are likely to be sufficient at mitigating emissions from fire water.

Risk Event					Risk rating ¹ Licence	Licence		Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	Holder's controls sufficient?	Conditions ² of licence	
Acceptance and	Fire/smoke	Air/windborne pathway causing impacts to health and amenity	Residential properties located ~25 m northeast from premises boundary Commercial properties located ~ 20 m north of the premises boundary Threatened/priority ecological community and threatened fauna identified surrounding the premises. Geomorphic wetlands located ~ 320m west of the premises boundary DBCA land tenure located ~200m west of the premises boundary.	Refer to Section 3.1	C = Major L = Unlikely Medium Risk	Yes	Condition 1, 3, 6, 8 and 15 Condition 7	The Delegated Officer considers that the Applicant's proposed controls for fire/smoke are likely to be sufficient with additional regulatory controls to mitigate potential emissions.
storage of mattresses	Dust	Air/windborne pathway causing impacts to health and amenity	Residential properties located ~25 m northeast from premises boundary Commercial properties located ~ 20 m north of the premises boundary Threatened/priority ecological community and threatened fauna identified surrounding the premises. Geomorphic wetlands located ~ 320m west of the premises boundary DBCA land tenure located ~200m west of the premises boundary	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Yes	Conditions 3 and 9,	The Delegated Officer considers dust emissions associated with the acceptance and storage of mattresses can be adequately regulated by the general provisions of the EP Act.

Risk Event	Risk Event							
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Acceptance and	Noise	Air/windborne pathway causing impacts to health and amenity	Residential properties located ~25 m northeast from premises boundary Commercial properties located ~ 20 m north of the premises boundary Threatened/priority ecological community and threatened fauna identified surrounding the premises. Geomorphic wetlands located ~ 320m west of the premises boundary DBCA land tenure located ~200m west of the premises boundary	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Yes	N/A	The Delegated Officer considers noise emissions associated with the acceptance and storage of mattresses can be sufficiently managed through the Environmental Protection (Noise) Regulations 1997.
Acceptance and storage of mattresses	Fire/smoke	Air/windborne pathway causing impacts to health and amenity	Residential properties located ~25 m northeast from premises boundary Commercial properties located ~ 20 m north of the premises boundary Threatened/priority ecological community and threatened fauna identified surrounding the premises. Geomorphic wetlands located ~ 320m west of the premises boundary DBCA land tenure located ~200m west of the premises boundary.	Refer to Section 3.1	C = Major L = Unlikely Medium Risk	Yes	Conditions 1, 3, 6, 8 and 15 Condition 7	The Delegated Officer considers that the Applicant's proposed controls for fire/smoke are likely to be sufficient with additional regulatory controls to mitigate potential emissions.

Risk Event	Risk Event						:e	
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Acceptance and	Leachate	Overland runoff potentially causing ecosystem disturbance or impacting stormwater quality Seepage into underlying soils	Underlying groundwater of the Cockburn Groundwater Area Threatened/priority ecological community buffers and threatened fauna surrounding the Premises. Geomorphic wetlands located ~ 320m west of the premises boundary DBCA land tenure located ~200m west of the premises boundary	Refer to Section 3.1	C = Minor L = Unlikely Medium Risk	Yes	Condition 1 and 3,	The Delegated Officer considers that the Applicant's proposed controls and the current conditions within the existing licence are likely to be sufficient at mitigating emissions from leachates.
storage of mattresses	Firewater	causing localised contamination. Infiltration into groundwater potentially causing ecosystem disturbance or impacting groundwater quality.		Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Yes	Condition 1,3, 15,16 and 17	The Delegated Officer considers that the Applicant's proposed controls and the current conditions within the existing licence are likely to be sufficient at mitigating emissions from fire water.

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.

4. Consultation

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

Table 4: Consultation

Consultation method	Comments received	Department response
Licence Holder was provided with draft amendment on 20/09/2023	Refer to Appendix 1	Refer to Appendix 1

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
Cover page	Updated the category 62- solid waste depot throughput capacity from 50,000 tonnes to 40,400 tonnes per annually.
	Removed Category 61 – Liquid waste facility throughput from Licence and incorporate that throughput capacity to category 62
Condition 1	Update to waste acceptance table to current licence format
	Inclusion of acceptable limit/specification of hazardous waste, waste oil and E-Waste.
Condition 3	Inclusion of process limit of hazardous waste E-Waste, waste oil and mattresses into Table 2: waste processing
	Notes added to table for additional requirements for the acceptance, handling, storage and transport of dangerous goods, household hazardous waste program, paintback scheme and e-waste.
Condition 7	Inclusion of condition 7 under the general site management to minimise the fire risk due to the household hazardous waste
Condition 12	Updated to current format.
Condition 17	Redundant condition. Updated to current format.
Condition 27	Added hazardous waste, waste oil and E-waste to the Table 6: Waste accepted onto the premises
Condition 28	Updated the Table 7: Waste removed from the premises
Condition 34	Condition wording updated to current format
Condition 35	Condition wording updated to current format

Condition 37	Condition wording updated to current format
Table 13: Definition	Added new definition for e-waste and hazardous Waste
Schedule 1:	Added new map which shown prescribed premises boundary (Figure 1)

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: Summary of Licence Holder's comments on risk assessment and draft conditions

Condition	Summary of Licence Holder's comment	Department's response
N/A	Licence Holder requested to update the registered business address in the cover page of the Licence	Administrative error. The Delegated Officer updated the registered business address as requested.
Condition 1 Table 1	Licence Holder requested to increase waste acceptance limit for Inert waste type 1 up to 20,000 tonnes and Inert waste type 2 up to 20,000 tonnes per annually.	The Delegated Officer agreed to increase the waste acceptance limit as requested. The increased waste acceptance did not increase the assessed risk.
	Licence Holder requested to increase waste acceptance limit for Waste oil up to 50 tonnes and hazardous waste used batteries up to 50 tonnes per annually	

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY									
Application type									
Works approval									
Licence		Relevant works approval number:		None					
		Has the works approval been complied with?		Yes □	No □				
		Has time limited operations under the works approval demonstrated acceptable operations?		Yes □ N/A □	No □				
		Environmental Compliance Report / Critical Containment Infrastructure Report submitted?		Yes □	No □				
		Date Report received:							
Renewal		Current licence number:							
Amendment to works approval		Current works approval number:							
Amendment to licence	×	Current licence number:	L9159/2018/2						
		Relevant works approval number:		N/A					
Registration		Current works approval number:		None					
Date application received		28/2/2023							
Applicant and Premises details									
Applicant name/s (full legal name/s)		City of Cockburn							
Premises name		Henderson Waste Recovery Part							
Premises location		Lot 202 on deposited plan 6044, Lot 2 on Diagram 17998 and Lot 233 on deposited plan 226117;							
		920 Rockingham Road, Wattleup 6166							
Local Government Authority		City of Cockburn							
Application documents									
HPCM file reference number:		DER2018/001433~13							
Key application documents (additional to application form):		Attachment 6B: Wastes permitted under the Household Hazardous Waste program							
Scope of application/assessment									
Summary of proposed activities or changes to existing operations.		Licence amendment							
		To include all HHW streams they are accepting into their already licenced HHW storage area.							

Category number/s (activities that cause the premises to become prescribed premises)						
Table 1: Prescribed premises categories						
Prescribed premises category and descript	Assessed production or design capacity					
Category 61: Liquid waste facility	120 tonnes per annual period.					
Category 61A: Solid waste facility	15,000 tonnes per annual period					
Category 62: Solid waste depot	50,000 tonnes per annual period					
Category 63: Class I inert landfill site		15,000 tonnes per annual period				
Category 64: Class II or III putrescible landfill site		200,000 tonnes per annual period				
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 [] No ⊠	N/A			
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes [] No ⊠	N/A			
Has the proposal been referred and/or assessed under the EPBC Act?			N/A			
Has the applicant demonstrated occupancy (proof of occupier status)?] No ⊠	N/A			
Has the applicant obtained all relevant planning approvals?	Yes [□ No □ N/A ⊠	N/A			
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?] No ⊠	No clearing is proposed.			
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes [] No⊠	No clearing is proposed.			
las the applicant applied for, or have an xisting RIWI Act licence or permit in Yes Elation to this proposal?] No⊠	Licence / permit not required.			

Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes ⊠ No □	Name: Cockburn Groundwater Area Type: Proclaimed Groundwater Area Has Regulatory Services (Water) been consulted? Yes □ No □ N/A ☒ Regional office: Swan Avon/ Kwinana Peel
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes □ No ⊠	N/A
Is the Premises subject to any other Acts or subsidiary regulations (e.g. Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx)	Yes ⊠ No □	RIWI – Ground water Areas GAZ– Name -Cockburn Groundwater Area GAZ Date - Jun 29, 1988 12:00 AM
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes ⊠ No ⊠	Kwinana EPP Area
Is the Premises subject to any EPP requirements?	Yes □ No ⊠	N/A
Is the Premises a known or suspected contaminated site under the Contaminated Sites Act 2003?	Yes ⊠ No ⊠	Classification – Possibly contaminated- Investigation required.