



Application for Licence

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

Licence Number	L9073/2017/1
Applicant	Shire of Serpentine Jarrahdale
File Number	DER2017/0001044
Premises	Watkins Road Transfer Station Reserve 23011 Lot 512 on Plan 53922 Watkins Road Mundijong WA 6123
Date of Report	6 June 2020
Decision	Licence granted

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MANAGER WASTE INDUSTRIES
INDUSTRY REGULATION

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

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1. Decision summary

This Decision Report documents the assessment of potential risks to the environment and public health from emissions and discharges during the operation of the Premises. As a result of this assessment, Licence L9073/2017/1 has been granted.

2. Scope of assessment

2.1 Regulatory framework

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

2.2 Application summary and overview of Premises

On 19/06/2017, the applicant submitted an application for a licence to the department under section 57 of the *Environmental Protection Act 1986* (EP Act).

The application is to seek a licence relating to a Transfer Station at the Premises. The Premises is approximately 2.1 km south east of Mundijong Central Business District.

The Premises relates to the Category 13, 57, 61A and 62 and assessed production/design capacity under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in Licence L7093/2017/1. The infrastructure and equipment relating to the premises category and any associated activities which the department has considered in line with *Guidance Statement: Risk Assessments* (DER 2017) are outlined in Licence L9073/2017/1.

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 *Guidance Statement: Risk Assessments* (DER 2017).

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 Decision Report are detailed in Table 1 below. Table 1 also details the proposed control measures the applicant has proposed to assist in controlling these emissions, where necessary.

Table 1: Proposed applicant controls

Emission	Sources	Potential pathways	Proposed controls
Operation			
Dust	Crushing of C&D material, Mulching Greenwaste and	Air/windborne pathway	Misting systems/sprinklers on mobile crusher, stockpiles will be limited as crushing is only based on a campaign bases as required for a few days a year, onsite speed limited to due to size of

Emission	Sources	Potential pathways	Proposed controls
	<i>vehicle movements.</i>		<i>premises, water cart retained onsite with 10,000 litre capacity, wetting down of roads when required.</i>
Noise	<i>Crushing and screening of material</i>	<i>Air/windborne pathway</i>	<i>All crushing and screening will be a campaign basis and it not expected to be longer than a few days a year. Hours of operation are restricted.</i>
Asbestos fibre	<i>C&D Waste / Household waste</i>	<i>Air/windborne pathway</i>	<i>All household waste will be stored within skip bins or cages for a short duration prior to removal off premises. C&D waste stored in small stockpiles. Applicant will not accept asbestos. The Applicant will inspect all concrete rubble for asbestos fibres prior to acceptance to the Premises as the concrete will be Shire material; no other concrete rubble material will be accepted.</i>
Fire	<i>Tyres, Greenwaste and household waste</i>	<i>Air/windborne pathway</i>	<i>No more than 250 tyres stored on the premise at any time. Greenwaste stockpiles small, campaign bases twice annually, buffer distance from other waste types. Household waste stored in skip bins and cages prior to removal off premises. Water Cart with a tank capacity of 10,000 litres employed on site.</i>
Odour	<i>Household waste</i>	<i>Air/windborne pathway</i>	<i>Waste only stored on premises for a short time prior to removal off premises.</i>
Leachate	<i>Storage of Green waste / Household waste / C&D waste / Drainage waste / Tyres</i>	<i>Seepage to soil and groundwater</i>	<i>Hardstand areas for Household waste constructed to meet not less than 1×10^{-9} m/s permeability (concrete) with use of skips bins and cages. Greenwaste volumes are small and will be collected by the Applicant and stored shortly prior to mulching. Expecting two campaign per annual period. Tyres, C&D and Drainage waste (soils and silts) is inert and therefore doesn't generate leachate.</i>
Contaminated Stormwater	<i>Greenwaste / Drainage waste / Household waste</i>	<i>Direct discharge from overland flow / seepage to soil and groundwater</i>	<i>Household waste is on hardstand pads and stored in skips bins or cages with uncontaminated stormwater diverted away. Drainage waste material is considered as largely inert as it will comprise soils and silts which originated from the natural soils surrounding the existing Shire drainage infrastructure. Prior to excavating the drainage waste material the drains will be inspected and cleaned of contaminated material such as glass, aluminium cans and plastics etc. Tyres and Concrete C&D waste is inert and does not form leachate. Any sediment runoff around the concrete stockpiles will be generated from in-situ existing soils. Crushing campaign expected a few</i>

Emission	Sources	Potential pathways	Proposed controls
			days per year.

3.1.2 Receptors

In accordance with the *Guidance Statement: Risk Assessment* (DER 2017), the Delegated Officer has excluded employees, visitors and contractors of the applicant 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 (*Guidance Statement: Environmental Siting* (DER 2016)).

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

Human receptors	Distance from prescribed activity
<i>Closest residential receptor</i>	<i>280 m south 320 m south east</i>
Environmental receptors	Distance from prescribed activity
<i>Contaminated Sites</i>	<i>Premises are classified as 'Potential contaminated-investigation required'. Land 400m north is classified as 'Incomplete Report' Land 600m north east is classified as 'Awaiting classification'</i>
<i>Bush Forever: Regional open space or proposed regional open space</i>	<i>Premises lies within Bush Forever Site</i>
<i>Threatened Flora</i>	<i>Area for possible Threatened Flora Located 170m south west</i>
<i>Threatened Fauna</i>	<i>Area for possible endangered bird fauna located 130m north east, 280m east, 330m north</i>
<i>Ephemeral water course</i>	<i>710m north east and 600m south</i>
<i>Groundwater</i>	<i>Depth to groundwater encountered at approximately 15m (based on available GIS dataset –WIN Groundwater Sites at a site 370m south east).</i>

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guidance Statement: Risk Assessments* (DER 2017) for each identified emission source and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are in-complete they have not been considered further in the risk assessment.

Where the applicant 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 applicant'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 applicant's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 3.

Licence L9073/2017/1 that accompanies this Decision Report authorises emissions associated with the operation of the Premises i.e. Category 13, 57, 61A and 62.

The conditions in the issued Licence, as outlined in Table 3 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					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
Operation								
Crushing, mulching and unloading, loading and storage of material Vehicle movements	Dust	Air/windborne pathway causing impacts to health and amenity	Residential premises: 280 m south 320 m south east Vegetation including native vegetation adjacent to mine areas	Refer to Section 3.1	C = Minor L = Possible Medium Risk	Y	<u>Condition 20</u>	Dust from crushing, screening, mulching and storage could impact nearby receptors. The Delegated Officer has included a general condition to prohibit unreasonable dust impacts to offsite receptors.
	Noise	Air/windborne pathway causing impacts to health and amenity	Residential premises: 280 m south 320 m south east		C = Minor L = Possible Medium Risk	Y	<u>Condition 17</u>	In the absence of a detailed submission on noise emissions, the Delegated Officer has limited hours of operation to less sensitive times being 7.00 -7.00 excluding Sundays and Public Holidays
	Sediment laden stormwater	Overland runoff potentially causing ecosystem disturbance or impacting surface water quality	Ephemeral water course 710m north east and 600m south	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	N/A	N/A
Tyres	Sediment laden stormwater	Overland runoff potentially causing ecosystem disturbance or impacting surface water quality	Ephemeral water course 710m north east and 600m south	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	N/A	N/A

Risk Event					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
	Leachate	Groundwater Local soils within the Premises	Depth to groundwater encountered at approximately 15m	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	N/A	N/A
	Fire	Air/windborne pathway causing impacts to health and amenity	Residential premises: 280 m south 320 m south east	Refer to Section 3.1	C = Minor L = Rare Low Risk	Y	<u>Condition 18 and 19</u>	Standard conditions for fire management.
C&D Waste (concrete)	Sediment laden stormwater	Overland runoff potentially causing ecosystem disturbance or impacting surface water quality	Ephemeral water course 710m north east and 600m south	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	N/A	N/A
	Asbestos Fibre	Air/windborne pathway causing impacts to health and amenity	Residential premises: 280 m south 320 m south east	Refer to Section 3.1	C = Severe L = Rare High Risk	N	<u>Condition 2, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16</u>	Standard conditions for asbestos management in relation to acceptance of C&D waste.
Drainage material (soils/silts)	Sediment laden stormwater	Overland runoff potentially causing ecosystem disturbance or impacting surface water quality	Ephemeral water course 710m north east and 600m south	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	N/A	N/A
Greenwaste Stockpiles	Sediment laden stormwater	Overland runoff potentially causing ecosystem disturbance or impacting surface water quality	Ephemeral water course 710m north east and 600m south	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	N/A	N/A

Risk Event					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
	Fire	Air/windborne pathway causing impacts to health and amenity	Residential premises: 280 m south 320 m south east	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	<u>Condition 17 and 18</u>	Standard conditions for fire management.
	Odour	Air/windborne pathway causing impacts to health and amenity	Residential premises: 280 m south 320 m south east	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	N/A. Odour can be adequately regulated by section 49 the Environmental Protection Act 1986.	N/A
	Leachate	Groundwater Local soils within the Premises	Depth to groundwater encountered at approximately 15m	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	N/A	N/A
Household waste	Leachate	Groundwater Local soils within the Premises	Depth to groundwater encountered at approximately 15m	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	N/A	N/A
	Asbestos Fibre	Air/windborne pathway causing impacts to health and amenity	Residential premises: 280 m south 320 m south east	Refer to Section 3.1	C = Severe L = Rare High Risk	N	<u>Condition 2, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16</u>	Standard conditions for asbestos management in relation to acceptance of C&D waste.
	Odour	Air/windborne pathway causing impacts to health and amenity	Residential premises: 280 m south 320 m south	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	<u>Condition 21</u>	Due to the relatively small distances to sensitive receptors, the Delegated Officer has limited household wastes

Risk Event					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
			east					<i>accepted and stored onsite to exclude putrescible/odorous waste types and has included a general condition to prohibit unreasonable odour impacts to offsite receptors.</i>
	Fire	<i>Air/windborne pathway causing impacts to health and amenity</i>	<i>Residential premises: 280 m south 320 m south east</i>	<i>Refer to Section 3.1</i>	<i>C = Slight L = Rare Low Risk</i>	Y	<u>Condition 18 and 19</u>	<i>Standard conditions for fire management.</i>
	<i>Sediment laden stormwater</i>	<i>Overland runoff potentially causing ecosystem disturbance or impacting surface water quality</i>	<i>Ephemeral water course 710m north east and 600m south</i>	<i>Refer to Section 3.1</i>	<i>C = Slight L = Unlikely Low Risk</i>	Y	N/A	N/A

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guidance Statement: Risk Assessments* (DER 2017).

Note 2: Proposed applicant 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
<i>Application advertised on the department's website (7/08/2017)</i>	<i>None received</i>	<i>N/A</i>
<i>Applicant was provided with draft documents on (29/05/2020)</i>	<i>Applicant responded 2/06/2020 with no comments and to issue the licence as soon as possible.</i>	<i>Noted.</i>

5. Conclusion

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

References

1. Department of Environment Regulation (DER) 2016, *Guidance Statement: Environmental Siting*, Perth, Western Australia.
2. DER 2017, *Guidance Statement: Risk Assessments*, Perth, Western Australia.
3. DER 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
4. DWER, June 2019. *Guideline: Industry Regulation Guide to Licensing*. Department of Water and Environmental Regulation, Perth.
5. DWER, June 2019. *Guideline: Decision Making*. Department of Water and Environmental Regulation, Perth.
6. DWER, June 2019. *Guideline: Odour emissions*. Department of Water and Environmental Regulation, Perth.

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)					
Application type					
Works approval	<input type="checkbox"/>				
Licence	<input checked="" type="checkbox"/>	Relevant works approval number:	W6067/2017/1	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 submitted?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Date Report received: 10/03/2020			
Renewal	<input type="checkbox"/>	Current licence number:			
Amendment to works approval	<input type="checkbox"/>	Current works approval number:			
Amendment to licence	<input type="checkbox"/>	Current licence number:			
		Relevant works approval number:		N/A	<input type="checkbox"/>
Registration	<input type="checkbox"/>	Current works approval number:		None	<input type="checkbox"/>
Date application received		19/07/2017			
Applicant and Premises details					
Applicant name/s (full legal name/s)		Shire of Serpentine Jarrahdale			
Premises name		Watkins Road Transfer Station			
Premises location		Reserve 23011			
Local Government Authority		Shire of Serpentine Jarrahdale			
Application documents					
HPCM file reference number:		DER2017/001044-1			
Key application documents (additional to application form):		<i>Supporting Document</i>			
Scope of application/assessment					
Summary of proposed activities or changes to existing operations.		Operation of Transfer Station.			

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
Category 13: Crushing of building material: premises on which waste building or demolition material (for example, bricks, stones or concrete) is crushed or cleaned	5000 tonnes per annual period
Category 57: Used tyre storage (general): premises (other than premises within category 56) on which used tyres are stored	250 tyres at any one time
Category 61A: Solid waste facility: premises (other than premises within category 67A) on which solid waste produced on other premises is stored, reprocessed, treated, or discharged onto land	11000 tonnes per annual period
Category 62: <i>Solid waste depot: premises on which waste is stored, or sorted, pending final disposal or re-use</i>	6000 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 <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"/>
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: 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:
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Certificate of title <input checked="" 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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input 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.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: Licence/permit 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Type: Proclaimed Groundwater Area/Surface Water Area Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Regional office: Swan Avon / Mid-West Gascoyne / Kwinana Peel / North West / South West / Goldfields / South Coast
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Priority: P1 / P2 / P3 / N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to WQPN 25)? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
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 xxxx</i>)	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"/>	
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

<p>Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i>?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Classification: N/A / possibly contaminated – investigation required (PC–IR) / not contaminated – unrestricted use (NC–UU) / contaminated – restricted use (C–RU) / remediated for restricted use (RRU) / contaminated – remediation required (C–RR) / decontaminated (Decon)</p> <p>Date of classification: N/A</p>
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