



Decision Document

Environmental Protection Act 1986, Part V

Proponent: City of Canning

Licence: L6958/1997/12

Registered office: City of Canning
1317 Albany Highway
CANNINGTON WA 6107

Premises address: Ranford Road Waste Transfer Station
Lot 76, Part Lot 77 and Part Lot 78 on Plan 2903, Lots 300, 301 and 302 on
Plan 30748, and, Lot 500 on Plan 15262 Ranford Rd
CANNING VALE WA 6155

Issue date: Thursday, 21 August 2014

Commencement date: Saturday, 23 August 2014

Expiry date: Thursday, 22 August 2019

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: Lindy Twycross
Licensing Officer

Decision Document authorised by: Cristina Angel
A/Manager Licensing



Contents

| | |
|---|----|
| Decision Document | 1 |
| Contents | 2 |
| 1 Purpose of this Document | 2 |
| 2 Administrative summary | 3 |
| 3 Executive summary of proposal | 4 |
| 4 Decision table | 5 |
| 5 Advertisement and consultation table | 16 |
| 6. Emissions and discharges risk assessment framework | 17 |

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.

Works approval and licence conditions

DER has three types of conditions that may be imposed on works approvals and licences. They are as follows;

Standard conditions (SC)

DER has standard conditions that are imposed on all works approvals and licences regardless of the activities undertaken on the Premises and the information provided in the application. These are included as the following conditions on works approvals and licences:

Works approval conditions: 1.1.1-1.1.4, 1.2.1, 1.2.2, 5.1.1 and 5.1.2.

Licence conditions: 1.1.1-1.1.4, 1.2.1-1.2.4, 5.1.1-5.1.4 and 5.2.1.

For such conditions, justification within the Decision Document is not provided.

Optional standard conditions (OSC)

In the interests of regulatory consistency DER has a set of optional standard conditions that can be imposed on works approvals and licences. DER will include optional standard conditions as necessary, and are likely to constitute the majority of conditions in any licence. The inclusion of any optional standard conditions is justified in Section 4 of this document.

Non standard conditions (NSC)

Where the proposed activities require conditions outside the standard conditions suite DER will impose one or more non-standard conditions. These include both premises and sector specific conditions, and are likely to occur within few licences. Where used, justification for the application of these conditions will be included in Section 4.



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 | Category number(s) | Assessed design capacity |
| | 62 | 40,000 tonnes per year |
| Application verified | Date: 30 June 2014 | |
| Application fee paid | Date: 03 July 2014 | |
| 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 | | |
| 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"/> |
| Is the proposal subject to Ministerial Conditions? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| | | |
| 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"/> |
| | | |
| 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 City of Canning operates a waste transfer station on land previously associated with the Ranford Road Landfill. The City of Canning ceased to receive waste for burial in 2005 and the landfill category was removed from the licence in 2013. The premises operates as a transfer station and as a works depot for the City of Canning. The transfer station itself is not located on the former landfill cells however the area previously used for the Class II landfill is included in the area of this licence.

The Environmental Protection Authority (2005) recommends a buffer distance of 200m between a waste depot and sensitive receptors. The site is located 350 metres to the north of the nearest residence. The transfer station is 470 metres from the SMRC waste composting facility which is the nearest commercial/industrial activity.

The transfer station receives waste from residents of the City of Canning and some waste generated by the City itself. Wastes accepted are Clean Fill, Inert Waste Type 1, Inert Waste Type 2 (tyres and plastics), Special Waste Type 1 (asbestos products), Putrescibles (Green Waste and household furnishings only) and Hazardous Waste (waste oil, paint, vehicle batteries, Drum Master products and e-waste).

The operational area includes:

- surfaced access roads;
- a fully enclosed shed where waste other than green waste is dropped off and sorted and collected by trucks for removal for off-site processing or disposal. Waste generally remains in the shed for less than 24 hours before being removed from the premises;
- a banded, enclosed household hazardous waste collection depot;
- a vehicle wash down bay;
- outdoor storage bays for inert materials used for council works; and
- a green waste and shredded/mulched green waste storage area surfaced with crushed road base.

The main emission from the premises is contaminated stormwater. Stormwater and wash down water from areas the transfer station shed and the vehicle wash down bay are directed to a clay lined evaporation pond that is desludged annually. Uncontaminated stormwater from pavement and roads is directed to soak wells. Stormwater from the green-waste storage area is directed to a compensation basin. There is no composting on site and shredded green waste is removed within 48 hours.

Asbestos material is only accepted on site if wrapped and labelled. There is the possibility that exposed asbestos is inadvertently accepted. On this basis, an improvement condition is included in the licence to submit an asbestos management plan that is consistent with the "Guidelines for managing asbestos at construction and demolition waste recycling facilities", Department of Environment and Conservation, 2013

The area of the premises includes the closed putrescible landfill cells of the former Ranford Road Landfill. Conditions for monitoring ambient ground water remain in this licence re-issue. The number and locations of monitoring bores have not been reassessed since these bores were included in the REFIRE licence reissue in November 2013.

The premises is rated low risk and the licence is issued for 5 years.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987*, DEC's Policy Statement - Limits and targets for prescribed premises (2006), 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 | OSC or NSC | Justification (including risk description & decision methodology where relevant) | Reference documents |
| General conditions | L1.2.5 L1.2.6 L1.3.1 L1.3.2 L1.3.3 L1.3.4 L1.3.5 L1.3.6 L1.3.7 L1.3.8 | OSC OSC OSC OSC OSC OSC OSC OSC OSC OSC | <p>Operation</p> <p><u>Emission Description</u> <i>Emission:</i> Stormwater contaminated by the transfer station operations.</p> <p><i>Impact:</i> Contamination of surrounding land, surface water drainage systems and ground water. Bushforever site 388 is located immediately to the west of the premises boundary and inside the southeast third of the premises. A small conservation wetland (Ranford Road Wetland) is located inside the northeast boundary of the premises. Ground water is 3.5m to 4.5m below ground surface level in the area of the Transfer Station.</p> <p><i>Controls:</i> All potentially contaminated stormwater from the transfer shed and the vehicle wash down bay is directed to a clay lined evaporation pond with a sacrificial sand layer which is scraped annually. The pond has sufficient freeboard to prevent overflow during extreme weather events (1 in 10 year storm). Stormwater from pavement and roads is directed to soak wells. Stormwater is otherwise directed to 1.5m deep compensation basins.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p> | <p><i>Environmental Protection (Unauthorised Discharges) Regulations, 2004</i></p> <p>Code of Practice for the Storage and Handling of Dangerous Goods, Department of Mines and Petroleum, Government of Western Australia</p> <p>Guidelines for managing asbestos at construction and demolition waste recycling facilities,</p> |

Excluded: Rare
Risk Rating: Low

1996 (as amended)

Operation

Emission Description

Emission: Hazardous Waste and Putrescible Waste contaminating land, surface waters and ground water from material brought onto the premises. Windblown waste such as papers and plastic bags.

Impact: Hazardous waste and putrescible waste can pose a threat to public health and the environment. Windblown waste can cause a nuisance, be considered unsightly and be a minor health hazard. Bushforever site 388 is located immediately to the west of the premises boundary and inside the southeast third of the premises. A small conservation wetland (Ranford Road Wetland) is located inside the northeast boundary of the premises. Ground water is 3.5m to 4.5m below surface level. The Transfer Station is located 350 metres to the north of the nearest residence and 470m from the nearest commercial/industrial activity.

Controls:

- Putrescible waste is not accepted unless it is green waste or household furnishings (sofas, mattresses, chairs etc.).

Guidelines for managing asbestos at construction and demolition waste recycling facilities, Department of Environment and Conservation, 2013



| DECISION TABLE | | | | |
|----------------------------------|---|------------|---|---------------------|
| Works Approval / Licence section | Condition number W = Works Approval L = Licence | OSC or NSC | Justification (including risk description & decision methodology where relevant) | Reference documents |
| | | | <ul style="list-style-type: none"> Other than green waste, all tipping, sorting and storing is done in an enclosed shed that has a concrete floor. Shredded green waste is removed from the premises within 48 hours; Hazardous waste is stored in a purpose built fully enclosed, bunded shed with a sealed floor. No more than 100 tyres are stored at any one time. Both the premises' perimeter and the transfer station area are fenced and locked when unattended to prevent dumping of waste. The fence is regularly patrolled to remove any windblown waste. Signage alerts public to types of waste accepted and opening hours. <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> Licence conditions L1.3.1 and L1.3.3 are included to provide acceptable waste types, quantities and process limits. OSC L1.3.2 ensures that any non-conforming waste found inadvertently included in accepted material is quarantined in a container or area and removed to an authorised facility as soon as practicable. OSCs L1.3.4 – L1.3.8 ensures the site is kept secure, free of windblown waste, free of pests, vermin, and fire and public is made aware of basic requirements of the site. OSC L1.2.6 requires permanent markers to delineate the premises's boundary to ensure the larger area of a disused landfill is included.</p> | |

Emission: Fire and smoke from tyres, plastics, household furnishings.

Impact: Fire and smoke can pose a threat to public health and the environment. Bushforever site 388 is located immediately to the west of the premises' boundary and inside the southeast third of the premises. A small conservation wetland (Ranford Road Wetland) is located inside the northeast boundary of the premises. The Transfer Station is located 350 metres to the north of the nearest residence and 470m from the nearest commercial/industrial activity.

Controls:

- No more than 100 tyres are stored at any one time.
- Plastics and household furnishings are sorted and stored in the enclosed Transfer Shed.
- Both the premises' perimeter and the transfer station area are fenced and locked when unattended to prevent entry.
- Signage alerts public that fires are not allowed.
- No waste is burnt on the premises.

Risk Assessment

Consequence: Minor

Likelihood: Unlikely



| DECISION TABLE | | | | |
|----------------------------------|---|------------|---|---------------------|
| Works Approval / Licence section | Condition number W = Works Approval L = Licence | OSC or NSC | Justification (including risk description & decision methodology where relevant) | Reference documents |
| | | | <p><i>Risk Rating: Moderate</i></p> <p><u>Regulatory Controls</u> OSC L1.3.3 reduces risk and scale of fire by ensuring no more than 100 tyres is stored at any one time. OSCs L1.3.8 and L1.3.5 ensure no waste is burnt on the premises and warns the public of penalties for lighting fires.</p> <p><u>Residual Risk</u> <i>Consequence: Minor</i> <i>Likelihood: Rare</i> <i>Residual Risk Rating: Low</i></p> <p>Operation <u>Emission Description</u> <i>Emission: Asbestos material discharging to land or air from asbestos brought onto the premises.</i></p> <p><i>Impact: Asbestos poses a threat to public health.</i></p> <p><i>Controls: Asbestos cement product is accepted from residents of the city only if it is wrapped and sealed in heavy duty plastic and labelled. It is stored in a clearly labelled and secure container before taken to Waste Stream facility, Kwinana for disposal.</i> Ranford Road Transfer Station operates under an Asbestos Management Plan. Procedures in the plan will be required to be improved by an improvement condition to meet the standards required in the "Guidelines for managing asbestos at construction and demolition waste recycling facilities", Department of</p> | |

Risk Rating: Moderate

Regulatory Controls

Licence conditions L1.3.1 and L1.3.3 ensure asbestos accepted on site is asbestos cement products only and must be bagged and stored in a clearly labelled container.

OSC L1.3.2 ensures that any non-confirming waste inadvertently included in accepted material is quarantined in a container or area and removed to an authorised facility as soon as practicable.

Residual Risk

Consequence: Major

Likelihood: Unlikely

Residual Risk Rating: Moderate

The licence allows acceptance of construction and demolition wastes. To ensure the premises is managed in accordance with DER's "Guidelines for managing asbestos at construction and demolition waste recycling facilities" the licensee will be required to submit an Asbestos Management Plan as an improvement condition.

Once confirmed, an OSC will be included as an amendment for operations to be conducted in accordance with the Asbestos Management Plan.



| DECISION TABLE | | | | |
|--|---|------------|--|---|
| Works Approval / Licence section | Condition number W = Works Approval L = Licence | OSC or NSC | Justification (including risk description & decision methodology where relevant) | Reference documents |
| Emissions general | L2.1.1 | OSC | Descriptive limits will be set through condition L2.6.2 of the licence and therefore LOSC 2.1.1 regarding recording and investigation of exceedances of limits or targets is included. | N/A |
| Point source emissions to air including monitoring | L2.2; L3,2 | N/A | There are no direct point source emissions to air from the premises, therefore conditions are not required. | N/A |
| Point source emissions to surface water including monitoring | L2.3; L3.3 | N/A | There are no point source emissions to surface water from the premises, therefore conditions are not required. | N/A |
| Point source emissions to groundwater including monitoring | L2.4; L3.4 | N/A | There are no direct point source emissions to groundwater from the premises, therefore conditions are not required. | N/A |
| Emissions to land including monitoring | L2.5; L3.5 | N/A | There are no direct emissions to land from the premises, therefore conditions are not required. | N/A |
| Fugitive emissions | L2.6.1 L2.6.2 | OSC OSC | Operation <u>Emission Description</u> <i>Emission:</i> Dust from vehicle movements and tipping waste, sorting and storage of waste and shredding of green waste. | <i>Environmental Protection (Unauthorised Discharges) Regulations, 2004</i> |

the transfer area are hosed and swept by a sweeper truck. A water truck controls dust from non-surfaced areas and where green waste is stored. Green waste is shredded using a counter rotating shear shredder which produces minimal dust.

Risk Assessment

Consequence: Minor

Likelihood: Unlikely

Risk Rating: Moderate

Regulatory Controls

OSCs L2.6.1 and L2.6.2 are included to ensure dust is managed and no emissions of dust escape the premises.

Residual Risk

Consequence: Insignificant

Likelihood: Unlikely

Residual Risk Rating: Low

OSC

Operation

Emission Description

Emission: Odour from waste on the premises.

*Environmental
Protection Act
1986*

and storing of non-green waste is conducted in a fully enclosed shed/s. Non-conforming waste is stored in containers and removed as soon as practicable. Green waste is shredded but no composting occurs on the premises. Shredded green waste remains on site no longer than 48 hours.

Risk Assessment

Consequence: Minor

Likelihood: Unlikely.

Risk Rating: Moderate

Regulatory Controls

OSC L2.7.1 included to ensure that odour emitted does not reasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the premises. Mulched or shredded green waste may become odorous in time so condition L1.3.3 has been added to the licence to ensure mulched or shredded green waste is removed within one week.

Residual Risk

Consequence: Insignificant

Likelihood: Unlikely

Residual Risk Rating: Low

Controls: Tipping and sorting of waste other than green waste occurs in an enclosed shed. The green waste shredding machine is low noise emission.

Risk Assessment

Consequence: Insignificant

Likelihood: Unlikely

Risk Rating: Low

Regulatory Controls

The premises must comply with the Environmental Protection (Noise) Regulations 1997.

Residual Risk

Consequence: Insignificant

Likelihood: Rare

Residual Risk Rating: Low

| | | |
|-----|---|-----|
| OSC | Conditions specifying compliance with relevant Australian Standards and periods for sampling for ambient groundwater monitoring are required. | N/A |
| OSC | | |
| OSC | | |
| OSC | | |



| DECISION TABLE | | | | |
|----------------------------------|---|------------|--|--|
| Works Approval / Licence section | Condition number W = Works Approval L = Licence | OSC or NSC | Justification (including risk description & decision methodology where relevant) | Reference documents |
| Monitoring of inputs and outputs | L3.6.1 | OSC | There is potential for non-conforming waste to be accepted at the premises inadvertently. Licence conditions to monitor waste types and tonnes accepted and leaving or rejected are considered suitable. | N/A |
| Process monitoring | L3.7 | N/A | These are not required to be monitored therefore no optional or non-standard conditions are required. | N/A |
| Ambient quality monitoring | L3.8.1 | OSC | Ambient ground water monitoring is required because the premise was previously used as a Class II Landfill. The monitoring regime has not been re-assessed since REFIRE amendment /reissue in 2013. | N/A |
| Meteorological monitoring | L3.9 | N/A | Meteorological conditions are not required to be monitored therefore no optional or non-standard conditions are required. | N/A |
| Improvements | L4.1.1 | OSC | Improvement condition requiring submission of an Asbestos Management plan is included (see General conditions section for explanation). | Guidelines for managing asbestos at construction and demolition waste recycling facilities, Department of Environment and Conservation, 2013 |
| Information | L5.2.2 | OSC | Standard conditions including requirement to annually report ground water monitoring, and input and outputs. OSC L5.2.2 requires an assessment is made against previous groundwater monitoring results. | N/A |
| Licence Duration | N/A | N/A | The site's operations are considered low risk due to the nature of the waste accepted, the controls in place at the site, and the distance from closest residents. The duration of the licence is 5 years. | N/A |



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 |