



***Environmental Protection Act 1986, Part V***

**Licence: L6764/1997/14**

**Expiry date:** Sunday, 9 July 2017

Decision Document authorised by: Alan Kietzmann  
Delegated Officer



## Contents

|  |   |
|--|---|
| Decision Document                              | 1 |
| Contents                                       | 2 |
| 1 Purpose of this Document                     | 2 |
| 2 Administrative summary                       | 3 |
| 3 Executive summary of proposal and assessment | 4 |
| 4 Decision table                               | 5 |
| 5 Advertisement and consultation table         | 8 |
| 6 Risk Assessment                              | 9 |

## 1 Purpose of this Document

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



## 2 Administrative summary

| Administrative details  |   |   |
|---|---|---|
| Application type  | Works Approval <input type="checkbox"/><br>New Licence <input type="checkbox"/><br>Licence amendment <input checked="" type="checkbox"/><br>Works Approval amendment <input type="checkbox"/> |   |
| Activities that cause the premises to become prescribed premises  | <b>Category number(s)</b>   | <b>Assessed design capacity</b>   |
|   | 62  | 70,000 tonnes per annual period   |
|   | 63  | 250,000 tonnes per annual period  |
| Application verified  | Date: N/A   |   |
| Application fee paid  | Date: N/A   |   |
| 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"/>   | Referral decision No:<br>Managed under Part V <input type="checkbox"/><br>Assessed under Part IV <input type="checkbox"/> |
| Is the proposal subject to Ministerial Conditions?  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>   | Ministerial statement No:<br>EPA Report No:   |
| Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i> )?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Department of Water consulted Yes <input type="checkbox"/> No <input type="checkbox"/>                                 |   |
| Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Environmental Protection Swan Coastal Plain Lakes Policy 1992 |   |   |
| Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>  |   |   |



### 3 Executive summary of proposal and assessment

Atlas Group Pty Ltd (Atlas) operates a solid waste depot and Class I inert landfill site in the locality of Mirrabooka within the Perth metropolitan region. The premises is adjacent to land zoned for residential use, where the nearest residential dwelling is 70 metres north of the premises. The premises accepts unsegregated municipal waste from the City of Stirling.

Landfill activities have been carried out at the site since 1977, and previously both putrescible and inert wastes were accepted for burial. In 1997 the premises was reclassified from a putrescible landfill to a Class 1 inert landfill only due to the risk to groundwater from putrescibles being buried in unlined cells. The premises continues to accept putrescible wastes for sorting only.

Waste arrives at the premises and is inspected prior to entry to ensure no asbestos or asbestos containing material can be visually identified. If the load is accepted, it is weighed at the weigh bridge and directed to either the landfill or enclosed Secondary Waste Sorting Facility for offloading and sorting. Within the facility waste types are separated into organic material suitable for composting (which is transported off-site to the Atlas Calingiri Composting Facility), recyclables, inert wastes and putrescible waste to be transported off-site to a Class II or Class III landfill facility for disposal.

The main potential emissions from the premises are:

- odour from the putrescible wastes accepted on site for sorting;
- dust from the landfilling of inert material;
- landfill gas emissions from the historical putrescible landfill cells; and
- landfill leachate seepage to groundwater from the historical putrescible landfill cells.

The sorting facility on the premises is equipped with a spray deodoriser system to assist in mitigating odour emissions.

A landfill gas extraction system and associated power generation infrastructure has operated at the premises since 1996.

Atlas was served an Investigation Notice in October 2011, under the *Contaminated Sites Act 2003*. The groundwater investigation which was conducted as part of the Investigation Notice found that landfill leachate had impacted groundwater beneath the landfill site and approximately one kilometre off-site to the southwest into residential areas of Dianella and Mirrabooka. As a result additional offsite groundwater sampling locations and additional sampling and reporting parameters were included on the licence in 2014.

This licence is the result of an amendment sought by Atlas to include the acceptance of Inert Waste Type 2 for burial. The intent of this amendment is to allow for acceptance and burial of tyres, rubber and plastics that may be comingled within loads of waste accepted at the premises. Atlas has not requested an increase to the quantity limit per annual period for category 64 activities.



## 4 Decision table

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

| DECISION TABLE                   |   |   |   |
|----------------------------------|---|---|---|
| Works Approval / Licence section | Condition number<br>W = Works Approval<br>L = Licence | Justification (including risk description & decision methodology where relevant)  | Reference documents   |
| Interpretation                   | L1.1.2  | Definitions under condition 1.1.2 have been amended in line with DER's current licensing process.   | N/A   |
|                                  | L1.2.1  | Previous condition 1.2.1 has been moved to condition 1.1.5  | N/A   |
| General conditions               | L1.2.1  | Previous condition 1.2.3 has been removed in line with DER's current licensing process. Hazardous materials are appropriately controlled by the Department of Mine and Petroleum's Code of Practice for the storage and handling of dangerous goods.  | Code of Practice: Storage and handling of dangerous goods, Department of Mines and Petroleum, 2010. |
|                                  | N/A   | Conditions under section 1.2 have been renumbered.  | N/A   |
| Premises operation               | L1.3.1  | Table 1.3.1 has been amended to include the additional waste type that can be accepted at the premises as part of this amendment and limits this waste type to used tyres, rubber waste and plastics only. The control measures proposed in the application documentation has been assessed by DER as being suitable for controlling potential emissions from that waste. | Application supporting documentation  |
|                                  | L1.3.3  | Table 1.3.3 has been amended to include Inert Waste Type 2. The supporting documentation indicates that Inert Waste Type 2 will be subject to the same processes as Inert Waste Type 1 and so the table imposes the same process limits on both waste types.  |   |
|                                  | L1.3.3  | Condition 1.3.4 and Table 1.3.3 specify the cover requirements for the Inert Waste Type 2. Inert Waste Type 2 poses a risk of windblown waste and fire. The licensee has proposed to mitigate these risks by applying a daily cover, and immediate cover following the identification of plastics in the waste. This condition is included                                | Application supporting documentation  |



| DECISION TABLE                   |  |  |  |
|----------------------------------|--|--|--|
| Works Approval / Licence section | Condition number<br>W = Works Approval<br>L= Licence | Justification (including risk description & decision methodology where relevant)   | Reference documents  |
|                                  |  | to require the licence to adhere to these control measures.  |  |
| Emissions                        | L2.1.1   | Previous condition 2.1.1 requiring the licensee to record and investigate the exceedance of any descriptive or numerical limit or target specified in any part of section 2 has been removed as all conditions in this section have been removed in line with DER's current licensing processes. | N/A  |
|                                  | L2.6.1 – 2.6.2                                       | Previous conditions 2.6.1 and 2.6.2 relating to fugitive emissions have been removed from the licence as part of DER's current licensing processes. Fugitive emission are adequately regulated by the general provisions of the <i>Environmental Protection Act 1986</i> .                       | General provisions of the <i>Environmental Protection Act 1986</i> |
|                                  | L2.7.1   | Previous condition 2.7.1 relating to odour has been removed from the licence in line with DER's current licensing processes. Odour is adequately controlled under the general provisions of the <i>Environmental Protection Act 1986</i> .   | General provisions of the <i>Environmental Protection Act 1986</i> |
|                                  | N/A  | All wording relating to 'no specified conditions' and related headings has been removed in line with DER's current licensing processes.  | N/A  |
| Monitoring                       | N/A  | The monitoring section and conditions have been re-numbered  | N/A  |
|                                  | N/A  | All wording relating to 'no specified conditions' and related headings has been removed in line with DER's current licensing processes.  | N/A  |
|                                  | L2.1.2   | Parameters in Table 2.1.1 have been amended to require monitoring of Inert Wastes Type 1 and 2. This condition is required to monitor compliance with condition 1.3.1  | N/A  |
| Improvements                     | N/A  | The previous Improvements section has been removed as there are no improvement conditions  | N/A  |



| DECISION TABLE                   |  |  |  |
|----------------------------------|--|--|--|
| Works Approval / Licence section | Condition number<br>W = Works Approval<br>L= Licence | Justification (including risk description & decision methodology where relevant)   | Reference documents                      |
| Information                      | N/A  | The Information section has been renumbered  | N/A                                      |
|                                  | L3.2.1   | The summary of inputs and outputs is to distinguish whether the waste quantities processed as either part of the solid waste depot or landfilling activities in order to clarify throughput capacity against approved capacity.  |  |
|                                  | L3.2.2   | Condition 3.2.2 (a) has been amended to remove reference to targets in line with DER's current licensing processes.  | N/A                                      |
|                                  | L3.3.1   | Table 3.3.1 has been amended to remove the requirement to report any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution, as this requirement is adequately covered by section 72 of the environmental protection act. This notification parameter is to be removed in line with DER's current licensing processes. | <i>Environmental Protection Act 1986</i> |
| Licence Duration                 |  | This licence amendment has not reassessed the licence duration.  | N/A                                      |



## 5 Advertisement and consultation table

| Date       | Event                                     | Comments received/Notes   | How comments were taken into consideration   |
|------------|---|---|--|
| 16/10/2015 | Proponent sent a copy of draft instrument | Request for minor amendment to premises description and licence summary wording. Identification of incorrect numbering within conditions. | Premises description and licence summary changed slightly and numbering corrected. |
| 21/10/2015 | Proponent sent a copy of draft instrument | No comments. Waiver form submitted  | Amendment issued as soon as possible.  |





## 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    |