



Your ref: L7223/1997/10

Our ref: DEC8532

Enquiries: Brad Cox

Phone: 9725 4300

Fax: 9725 4351

Email: [brad.cox@der.wa.gov.au](mailto:brad.cox@der.wa.gov.au)

Chief Executive Officer  
Shire of Harvey  
PO Box 500  
HARVEY WA 6220

ATTN: Scott Dandridge

Dear Mr Dandridge

**ENVIRONMENTAL PROTECTION ACT 1986: LICENCE GRANTED**

**Premises**

Harvey Shire Septage Site

Crown Reserve Nos. 22977 & 44819, Lots 3000 & 3001 on Plan 49937, HARVEY WA 6220

**Licence Number:** L7223/1997/10

A licence under the *Environmental Protection Act 1986* (the Act) has been granted for the above premises. The Department of Environment Regulation will advertise the issuing of this licence in the public notices section of *The West Australian* newspaper.

The licence includes attached conditions. Under Section 58(1) of the Act, it is an offence to contravene a condition of a licence. This offence carries a penalty of up to \$125,000 and a daily penalty of up to \$25,000. In accordance with section 102(1)(c) of the Act, you have 21 days to appeal the conditions of the licence. Under section 102(3)(a) of the Act, any other person may also appeal the conditions of the licence. To lodge an appeal contact the Office of the Appeals Convenor on 6467 5190 or by email at [admin@appealsconvenor.wa.gov.au](mailto:admin@appealsconvenor.wa.gov.au).

Where a licence is issued for more than one year it requires payment of an annual fee and will cease to have effect if the fee is unpaid. It is the occupier's responsibility to lodge a fee application and pay the annual fee in sufficient time to avoid incurring a late payment fee and for processing to be completed before the licence anniversary date.

If you have any queries regarding the above information, please contact Brad Cox on 9725 4300.

Yours sincerely

Alan Sands  
Officer delegated under Section 20  
of the *Environmental Protection Act 1986*

9 August 2013

South West Region  
South West Highway, Bunbury WA 6230  
Phone: 08 97254300 / Fax: 08 97254351  
PO Box 1693, Bunbury, WA 6231  
[www.der.wa.gov.au](http://www.der.wa.gov.au)





# Licence

## *Environmental Protection Act 1986, Part V*

**Licensee:** Shire of Harvey

**Licence:** L7223/1997/10

**Registered office:** 102 Uduc Road  
HARVEY WA 6220

**ACN:** N/A

**Premises address:** Harvey Shire Septage Site  
3001 South West Highway  
WARAWARRUP WA 6220  
Being Lot 3001 on Plan 49937 as depicted in Schedule 1.

**Issue date:** Friday, 9 August 2013

**Commencement date:** Monday, 12 August 2013

**Expiry date:** Saturday, 11 August 2018

**Prescribed Premises Category**  
Schedule 1 of the Environmental Protection Regulations 1987

Category number	Category description	Category production or design capacity	Premises production or design capacity
61	Premises on which liquid waste produced on other premises (other than sewerage waste) is stored, reprocessed, treated or irrigated.	100 tonnes or more per year	3,000 tonnes per year

### Conditions of Licence

Subject to the conditions of the licence set out in the attached pages.

  
.....  
Officer delegated under Section 20  
of the *Environmental Protection Act 1986*





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## Introduction

This Introduction is not part of the Licence conditions.

### Who we are

The Department of Environment Regulation (DER) is a Government Department for the State of Western Australia in the portfolio of the Minister for Environment. DER's purpose is to protect and conserve the State's environment on behalf of the people of Western Australia

### DER's industry licensing role

DER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DER works with the business owners, community, consultants, industry and other representatives to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DER also monitor and audit compliance with works approvals and licence conditions, take enforcement action as appropriate and develop and implement licensing and industry regulation policy.

### Licence requirements

This licence is issued under Part V of the Act. Conditions contained with the licence relate to the prevention, reduction or control of emissions and discharges and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licensee the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. These can be accessed through the State Law Publisher website using the following link:

<http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- Environmental Protection (Unauthorised Discharges) Regulations 2004 – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.
- Environmental Protection (Controlled Waste) Regulations 2004 - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- Environmental Protection (Noise) Regulations 1997 – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

You should comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply. Additional guidance on pollution prevention can be





found in the Department of Water's Water Quality Protection Guidelines and Codes of Practice accessed through: <http://www.water.wa.gov.au/>.

Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

Guidelines which you should be aware of include:

- *Western Australian Guidelines for Biosolids Management*, Department of Environment and Conservation, December 2012 (as amended from time to time).

#### Licence Fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

#### Ministerial conditions

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for the Environment. You are required to comply with any conditions imposed by the Minister.

#### Premises description and Licence summary

The site is used to dispose biological and low strength wastewater from within the Shire of Harvey. The site comprises four anaerobic trenches (capacities range from 315,000 to 481,000 litres) and two aerobic lagoons (950 cubic metres and 372 cubic metres). The process is a closed system whereby treated wastewater is evaporated. The main environmental concerns relate to the potential for odour generation and impacts on groundwater quality in a drinking water catchment. Wastewater is discharged below the surface of the first anaerobic trench to minimise the generation of mal odours. The trenches and lagoons are unlined; however the site appears to be set in the deep clays of the Darling Scarp.

This Licence is the successor to licence L7223/1997/10 and includes a review of the activities on the Premises. The licence has also been converted to a new format REFIRE licence.

The licences and works approvals issued for the Premises for the 5 licences prior to issue of this Licence are:

Instrument log		
Instrument	Issued	Description
L7223/1997/5	12/08/2002	Licence re-issue
L7223/1997/6	12/08/2003	Licence re-issue
L7223/1997/7	12/08/2004	Licence re-issue
L7223/1997/8	12/08/2005	Licence re-issue
L7223/1997/9	12/08/2008	Licence re-issue

#### Severance

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

#### END OF INTRODUCTION



## Licence conditions

### 1 General

#### 1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

**"the Act"** means the *Environmental Protection Act 1986*;

**"annual period"** means the inclusive period from 1 July until 31 June in the following year;

**"AS/NZS 5667.1"** means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

**"AS/NZS 5667.10"** means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of waste waters*;

**"Code of Practice for the Storage and handling of dangerous goods"** means the Storage and handling of dangerous goods, Code of Practice, Department of Mines and Petroleum, Government of Western Australia;

**"controlled waste"** has the definition in Environmental Protection (Controlled Waste) Regulations 2004;

**"Controlled Waste Categories 1.02, 1.03, 14.02, 14.03 and 14.04"** means controlled waste of the following types: 1.02 – Septage wastes – wastes from apparatus for the treatment of sewage (Biological waste), 1.03 – Grease wastes – wastes resulting from food preparation processes (Biological waste), 14.02 – Storm water (Low strength waste water), 14.03 – Pond water (Low strength waste water), 14.04 – Fire debris and wash water (Low strength waste water);

**"dangerous goods"** has the meaning defined in the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007;

**"Director"** means Director, Environmental Regulation Division of the Department of Environment Regulation for and on behalf of the Chief Executive Officer as delegated under Section 20 of the *Environmental Protection Act 1986*;

**"Director"** for the purpose of correspondence means;

Regional Leader, Industry Regulation, South West Region

Department of Environment Regulation

PO Box 1693

BUNBURY WA 6231

Telephone: (08) 9725 4300

Facsimile: (08) 9725 4351

Email: [southwestregion.industryregulation@der.wa.gov.au](mailto:southwestregion.industryregulation@der.wa.gov.au);

**"environmentally hazardous material"** means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises





may cause pollution or environmental harm. Note: Environmentally hazardous materials include dangerous goods where they are stored in quantities below placard quantities. The storage of dangerous goods above placard quantities is regulated by the Department of Mines and Petroleum;

**"freeboard"** means the distance between the surface level of the contents of the pond and the top of a pond embankment at its lowest point;

**"Licence"** means this Licence numbered L7223/1997/10 and issued under the *Environmental Protection Act 1986*;

**"Licensee"** means the person or organisation named as Licensee on page 1 of the Licence;

**"placard quantity"** has the meaning defined in the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007;

**"Premises"** means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

**"Schedule 1"** means Schedule 1 of this Licence unless otherwise stated;

**"Schedule 2"** means Schedule 2 of this Licence unless otherwise stated;

**"six monthly period"** means the 2 inclusive periods from 1 July to 30 December and 1 January to 31 June in the following year;

**"spot sample"** means a discrete sample representative at the time and place at which the sample is taken; and

**"usual working day"** means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the current version of that standard.

## 1.2 General conditions

1.2.1 Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:

- (a) pollution;
- (b) unreasonable emission;
- (c) discharge of waste in circumstances likely to cause pollution; or
- (d) being contrary to any written law.

1.2.2 The Licensee shall maintain all pollution control and monitoring equipment to the manufacturer's specification or any internal management system.

1.2.3 The Licensee, except where storage is prescribed in section 1.3, shall ensure that environmentally hazardous substances are stored in accordance with the Code of Practice for the Storage of dangerous goods.

1.2.4 The Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.2.5 The Licensee shall:

- (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and





- (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.<sup>1</sup>

Note1: The Environmental Protection (Unauthorised Discharges) Regulations 2004 make it an offence to discharge certain materials into the environment.

### 1.3 Premises operation

1.3.1 The Licensee shall only allow waste to be accepted on to the Premises if:

- (a) it is of a type listed in Table 1.3.1;
- (b) the quantity accepted is below any limit listed in Table 1.3.1; and
- (c) it meets any specification listed in Table 1.3.1

**Table 1.3.1: Waste acceptance**

Waste	Quantity Limit	Specification
Controlled Waste	3,000 t/yr	Biological Waste Categories 1.02 and 1.03 and low strength wastewater Categories 14.02, 14.03 and 14.04 tankered into the premises and discharged via the designated off-loading concrete receival area which can direct wastewater to three anaerobic treatment trenches. A fourth anaerobic treatment trench can also be discharged to directly via a hose or pipe.  Liquid waste shall be discharged to the anaerobic trenches via a sub-surface pipe (so as not to disrupt the anaerobic crust).

1.3.2 The Licensee shall ensure that the wastes accepted onto the Premises are only subjected to the process(es) set out in Table 1.3.2 and in accordance with any process limits described in that table.

**Table 1.3.2: Waste processing**

Waste type	Process	Process limits
Controlled Waste	Biological treatment	The licensee shall maintain the pH in the anaerobic trenches between 6.5 and 8.5.

1.3.3 The Licensee shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.3.3.

**Table 1.3.3: Containment infrastructure**

Storage vessel or compound	Material	Requirements
Off-loading concrete receival area	Controlled Waste and wastewater	Bunded concrete bay
All ponds/trenches	Wastewater	Clay liner (or equivalent) with a permeability of $<1 \times 10^{-9}$ m/s

1.3.4 The Licensee shall manage all wastewater treatment, and evaporation ponds such that:

- (a) a minimum top of embankment freeboard of 300 mm is maintained;
- (b) the integrity of the containment infrastructure is maintained;
- (c) trapped overflows are maintained on the outlet of ponds to prevent carry-over of surface floating matter; and
- (d) vegetation and floating debris (emergent or otherwise) is prevented from encroaching onto pond surfaces or inner pond embankments.



- 1.3.5 The licensee shall:
- (a) implement security measures at the site to prevent as far as is practical unauthorised access to the site;
  - (b) undertake regular inspections of all security measures and repair damage as soon as practicable; and
  - (c) ensure the entrance gates are closed and locked when the site is closed.
- 1.3.6 The licensee shall treat all desludged material to ensure it is spadeable, prior to disposal to an appropriately licensed landfill.

## 2 Emissions

### 2.1 General

There are no specified conditions in this section.

#### 2.2-2.4 Point source emissions to air, surface water, and groundwater

There are no specified conditions relating to point source emissions to air, surface water, and groundwater in this section.

### 2.5 Emissions to land

There are no specified conditions relating to emissions to land in this section.

### 2.6 Fugitive emissions

There are no specified conditions relating to fugitive emissions in this section.

### 2.7 Odour

- 2.7.1 The Licensee shall ensure that odour emitted from the premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the premises.

### 2.8 Noise

There are no specified conditions in this section.

## 3 Monitoring

### 3.1 General monitoring

- 3.1.1 The Licensee shall ensure that monthly monitoring is undertaken at least 15 days apart.
- 3.1.2 The licensee shall ensure that:
- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1; and
  - (b) all wastewater samples are collected in accordance with AS/NZS 5667.10.
- 3.1.3 The Licensee shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.





- 3.1.4 The Licensee shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the Director accompanied with a report comprising details of any modifications to the methods.

### 3.2-3.4 Monitoring of point source emissions to air, surface water and groundwater

There are no specified conditions relating to monitoring of point source emissions to air, surface water and groundwater in this section.

### 3.5 Monitoring of emissions to land

There are no specified conditions relating to monitoring of emissions to land in this section.

### 3.6 Monitoring of inputs and outputs

- 3.6.1 The Licensee shall undertake the monitoring specified in Table 3.6.1.

Table 3.6.1: Monitoring of inputs and outputs			
Input/Output	Parameter	Units	Frequency
Controlled Waste Categories 1.02, 1.03, 14.02, 14.03 and 14.04	Volume of controlled waste (by category) received at the premises	Tonnes	Monthly

### 3.7 Process monitoring

- 3.7.1 The Licensee shall undertake the monitoring in Table 3.7.1 according to the specifications in that table.

Table 3.7.1: Process monitoring						
Monitoring point reference	Process description	Parameter	Units	Target	Frequency	Method
Anaerobic trenches (Ponds 1 – 4)	Treatment – decomposition of waste	pH	pH unit	6.5 – 8.5	Monthly	Spot sample

### 3.8 Ambient environmental quality monitoring

There are no specified conditions relating to ambient environmental quality monitoring in this section.

### 3.9 Meteorological monitoring

There are no specified conditions relating to meteorological monitoring in this section.

## 4 Improvements

### 4.1 Improvement programme

- 4.1.1 The Licensee shall complete the improvements in Table 4.1.1 by the date specified.





- 4.1.2 The Licensee, for improvements not specifically requiring a written submission, shall write to the Director stating whether and how the Licensee is compliant with the improvement within one week of the completion date specified in Table 4.1.1.

**Table 4.1.1: Improvement program**

Improvement reference	Improvement	Date of completion
IR1	The Licensee shall submit to the Director a report on the water balance of waste accepted and the capacity of the trenches and ponds.	01/10/13
IR2	The Licensee shall submit to the Director information that demonstrates the hydrogeology of the site, e.g. bore logs of the on-site bore, survey information on the thickness and properties of <i>in situ</i> clay, distance to groundwater/bedrock, etc.	01/09/14

## 5 Information

### 5.1 Records

- 5.1.1 All information and records required by the Licence shall:

- be legible;
- if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
- except for records listed in 5.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
- for those following records, be retained until the expiry of the Licence and any subsequent licence:
  - off-site environmental effects; or
  - matters which affect the condition of the land or groundwater.

- 5.1.2 The Licensee shall ensure that:

- any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
- any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.

- 5.1.3 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous year.

- 5.1.4 The Licensee shall implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

### 5.2 Reporting

- 5.2.1 The Licensee shall submit to the Director at the Contact Address an annual environmental report within 60 calendar days after of the end of the annual period. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.



**Table 5.2.1: Annual environmental report**

Condition or table (if relevant)	Parameter	Format or form <sup>1</sup>
-	(i) any issues raised from inspections or incident responses during the reporting period together with details on how these have been addressed/rectified or, if the required work is yet to be completed, how and when they will be rectified/completed; and (ii) any changes to site boundaries, internal buffer zones, location of groundwater monitoring bores, surface drainage channels and on-site or off-site impacts or pollution.	None specified
-	Summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the year and any action taken	
5.1.3	Compliance	AACR
5.1.4	Complaints summary	None specified
Table 3.6.1	Monitoring of inputs and outputs	
Table 3.7.1	Process monitoring	

Note 1: Forms are in Schedule 2

5.2.2 The Licensee shall ensure that the annual environmental report also contains:

- (a) an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets; and
- (b) a list of any original monitoring reports submitted to the Licensee from third parties in the reporting period and make these reports available on request.

### 5.3 Notification

5.3.1 The Licensee shall ensure that the parameters listed in Table 5.3.1 are notified to the Director at the Contact Address and in accordance with the notification requirements of the table.

**Table 5.3.1: Notification requirements**

Condition or table	Parameter	Notification requirement <sup>1</sup>	Format or form
3.7.1	Target exceedance	As soon as practicable	None specified





found in the Department of Water's Water Quality Protection Guidelines and Codes of Practice accessed through: <http://www.water.wa.gov.au/>.

Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

Guidelines which you should be aware of include:

- *Western Australian Guidelines for Biosolids Management*, Department of Environment and Conservation, December 2012 (as amended from time to time).

#### Licence Fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

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If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for the Environment. You are required to comply with any conditions imposed by the Minister.

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The site is used to dispose biological and low strength wastewater from within the Shire of Harvey. The site comprises four anaerobic trenches (capacities range from 315,000 to 481,000 litres) and two aerobic lagoons (950 cubic metres and 372 cubic metres). The process is a closed system whereby treated wastewater is evaporated. The main environmental concerns relate to the potential for odour generation and impacts on groundwater quality in a drinking water catchment. Wastewater is discharged below the surface of the first anaerobic trench to minimise the generation of mal odours. The trenches and lagoons are unlined; however the site appears to be set in the deep clays of the Darling Scarp.

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The licences and works approvals issued for the Premises for the 5 licences prior to issue of this Licence are:

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L7223/1997/8	12/08/2005	Licence re-issue
L7223/1997/9	12/08/2008	Licence re-issue

#### Severance

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

#### END OF INTRODUCTION





## Licence conditions

### 1 General

#### 1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

**"the Act"** means the *Environmental Protection Act 1986*;

**"annual period"** means the inclusive period from 1 July until 31 June in the following year;

**"AS/NZS 5667.1"** means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

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**"Code of Practice for the Storage and handling of dangerous goods"** means the Storage and handling of dangerous goods, Code of Practice, Department of Mines and Petroleum, Government of Western Australia;

**"controlled waste"** has the definition in Environmental Protection (Controlled Waste) Regulations 2004;

**"Controlled Waste Categories 1.02, 1.03, 14.02, 14.03 and 14.04"** means controlled waste of the following types: 1.02 – Septage wastes – wastes from apparatus for the treatment of sewage (Biological waste), 1.03 – Grease wastes – wastes resulting from food preparation processes (Biological waste), 14.02 – Storm water (Low strength waste water), 14.03 – Pond water (Low strength waste water), 14.04 – Fire debris and wash water (Low strength waste water);

**"dangerous goods"** has the meaning defined in the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007;

**"Director"** means Director, Environmental Regulation Division of the Department of Environment Regulation for and on behalf of the Chief Executive Officer as delegated under Section 20 of the *Environmental Protection Act 1986*;

**"Director"** for the purpose of correspondence means;

Regional Leader, Industry Regulation, South West Region  
Department of Environment Regulation  
PO Box 1693  
BUNBURY WA 6231  
Telephone: (08) 9725 4300  
Facsimile: (08) 9725 4351  
Email: [southwestregion.industryregulation@der.wa.gov.au](mailto:southwestregion.industryregulation@der.wa.gov.au);

**"environmentally hazardous material"** means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises



may cause pollution or environmental harm. Note: Environmentally hazardous materials include dangerous goods where they are stored in quantities below placard quantities. The storage of dangerous goods above placard quantities is regulated by the Department of Mines and Petroleum;

**"freeboard"** means the distance between the surface level of the contents of the pond and the top of a pond embankment at its lowest point;

**"Licence"** means this Licence numbered L7223/1997/10 and issued under the *Environmental Protection Act 1986*;

**"Licensee"** means the person or organisation named as Licensee on page 1 of the Licence;

**"placard quantity"** has the meaning defined in the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007;

**"Premises"** means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

**"Schedule 1"** means Schedule 1 of this Licence unless otherwise stated;

**"Schedule 2"** means Schedule 2 of this Licence unless otherwise stated;

**"six monthly period"** means the 2 inclusive periods from 1 July to 30 December and 1 January to 31 June in the following year;

**"spot sample"** means a discrete sample representative at the time and place at which the sample is taken; and

**"usual working day"** means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the current version of that standard.

## 1.2 General conditions

1.2.1 Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:

- (a) pollution;
- (b) unreasonable emission;
- (c) discharge of waste in circumstances likely to cause pollution; or
- (d) being contrary to any written law.

1.2.2 The Licensee shall maintain all pollution control and monitoring equipment to the manufacturer's specification or any internal management system.

1.2.3 The Licensee, except where storage is prescribed in section 1.3, shall ensure that environmentally hazardous substances are stored in accordance with the Code of Practice for the Storage of dangerous goods.

1.2.4 The Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.2.5 The Licensee shall:

- (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and





- (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.<sup>1</sup>

Note1: The Environmental Protection (Unauthorised Discharges) Regulations 2004 make it an offence to discharge certain materials into the environment.

### 1.3 Premises operation

1.3.1 The Licensee shall only allow waste to be accepted on to the Premises if:

- (a) it is of a type listed in Table 1.3.1;
- (b) the quantity accepted is below any limit listed in Table 1.3.1; and
- (c) it meets any specification listed in Table 1.3.1

**Table 1.3.1: Waste acceptance**

Waste	Quantity Limit	Specification
Controlled Waste	3,000 t/yr	Biological Waste Categories 1.02 and 1.03 and low strength wastewater Categories 14.02, 14.03 and 14.04 tankered into the premises and discharged via the designated off-loading concrete receival area which can direct wastewater to three anaerobic treatment trenches. A fourth anaerobic treatment trench can also be discharged to directly via a hose or pipe.  Liquid waste shall be discharged to the anaerobic trenches via a sub-surface pipe (so as not to disrupt the anaerobic crust).

1.3.2 The Licensee shall ensure that the wastes accepted onto the Premises are only subjected to the process(es) set out in Table 1.3.2 and in accordance with any process limits described in that table.

**Table 1.3.2: Waste processing**

Waste type	Process	Process limits
Controlled Waste	Biological treatment	The licensee shall maintain the pH in the anaerobic trenches between 6.5 and 8.5.

1.3.3 The Licensee shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.3.3.

**Table 1.3.3: Containment infrastructure**

Storage vessel or compound	Material	Requirements
Off-loading concrete receival area	Controlled Waste and wastewater	Bunded concrete bay
All ponds/trenches	Wastewater	Clay liner (or equivalent) with a permeability of $<1 \times 10^{-9}$ m/s

1.3.4 The Licensee shall manage all wastewater treatment, and evaporation ponds such that:

- (a) a minimum top of embankment freeboard of 300 mm is maintained;
- (b) the integrity of the containment infrastructure is maintained;
- (c) trapped overflows are maintained on the outlet of ponds to prevent carry-over of surface floating matter; and
- (d) vegetation and floating debris (emergent or otherwise) is prevented from encroaching onto pond surfaces or inner pond embankments.





- 1.3.5 The licensee shall:
- (a) implement security measures at the site to prevent as far as is practical unauthorised access to the site;
  - (b) undertake regular inspections of all security measures and repair damage as soon as practicable; and
  - (c) ensure the entrance gates are closed and locked when the site is closed.
- 1.3.6 The licensee shall treat all desludged material to ensure it is spadeable, prior to disposal to an appropriately licensed landfill.

## 2 Emissions

### 2.1 General

There are no specified conditions in this section.

#### 2.2-2.4 Point source emissions to air, surface water, and groundwater

There are no specified conditions relating to point source emissions to air, surface water, and groundwater in this section.

### 2.5 Emissions to land

There are no specified conditions relating to emissions to land in this section.

### 2.6 Fugitive emissions

There are no specified conditions relating to fugitive emissions in this section.

### 2.7 Odour

- 2.7.1 The Licensee shall ensure that odour emitted from the premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the premises.

### 2.8 Noise

There are no specified conditions in this section.

## 3 Monitoring

### 3.1 General monitoring

- 3.1.1 The Licensee shall ensure that monthly monitoring is undertaken at least 15 days apart.
- 3.1.2 The licensee shall ensure that:
- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1; and
  - (b) all wastewater samples are collected in accordance with AS/NZS 5667.10.
- 3.1.3 The Licensee shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.



- 3.1.4 The Licensee shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the Director accompanied with a report comprising details of any modifications to the methods.

#### 3.2-3.4 Monitoring of point source emissions to air, surface water and groundwater

There are no specified conditions relating to monitoring of point source emissions to air, surface water and groundwater in this section.

#### 3.5 Monitoring of emissions to land

There are no specified conditions relating to monitoring of emissions to land in this section.

#### 3.6 Monitoring of inputs and outputs

- 3.6.1 The Licensee shall undertake the monitoring specified in Table 3.6.1.

Table 3.6.1: Monitoring of inputs and outputs			
Input/Output	Parameter	Units	Frequency
Controlled Waste Categories 1.02, 1.03, 14.02, 14.03 and 14.04	Volume of controlled waste (by category) received at the premises	Tonnes	Monthly

#### 3.7 Process monitoring

- 3.7.1 The Licensee shall undertake the monitoring in Table 3.7.1 according to the specifications in that table.

Table 3.7.1: Process monitoring						
Monitoring point reference	Process description	Parameter	Units	Target	Frequency	Method
Anaerobic trenches (Ponds 1 – 4)	Treatment – decomposition of waste	pH	pH unit	6.5 – 8.5	Monthly	Spot sample

#### 3.8 Ambient environmental quality monitoring

There are no specified conditions relating to ambient environmental quality monitoring in this section.

#### 3.9 Meteorological monitoring

There are no specified conditions relating to meteorological monitoring in this section.

## 4 Improvements

#### 4.1 Improvement programme

- 4.1.1 The Licensee shall complete the improvements in Table 4.1.1 by the date specified.





- 4.1.2 The Licensee, for improvements not specifically requiring a written submission, shall write to the Director stating whether and how the Licensee is compliant with the improvement within one week of the completion date specified in Table 4.1.1.

**Table 4.1.1: Improvement program**

Improvement reference	Improvement	Date of completion
IR1	The Licensee shall submit to the Director a report on the water balance of waste accepted and the capacity of the trenches and ponds.	01/10/13
IR2	The Licensee shall submit to the Director information that demonstrates the hydrogeology of the site, e.g. bore logs of the on-site bore, survey information on the thickness and properties of <i>in situ</i> clay, distance to groundwater/bedrock, etc.	01/09/14

## 5 Information

### 5.1 Records

- 5.1.1 All information and records required by the Licence shall:

- (a) be legible;
- (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
- (c) except for records listed in 5.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
- (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
  - (i) off-site environmental effects; or
  - (ii) matters which affect the condition of the land or groundwater.

- 5.1.2 The Licensee shall ensure that:

- (a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
- (b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.

- 5.1.3 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous year.

- 5.1.4 The Licensee shall implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

### 5.2 Reporting

- 5.2.1 The Licensee shall submit to the Director at the Contact Address an annual environmental report within 60 calendar days after of the end of the annual period. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.



Table 5.2.1: Annual environmental report		
Condition or table (if relevant)	Parameter	Format or form <sup>1</sup>
-	(i) any issues raised from inspections or incident responses during the reporting period together with details on how these have been addressed/rectified or, if the required work is yet to be completed, how and when they will be rectified/completed; and (ii) any changes to site boundaries, internal buffer zones, location of groundwater monitoring bores, surface drainage channels and on-site or off-site impacts or pollution.	None specified
-	Summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the year and any action taken	
5.1.3	Compliance	AACR
5.1.4	Complaints summary	None specified
Table 3.6.1	Monitoring of inputs and outputs	
Table 3.7.1	Process monitoring	

Note 1: Forms are in Schedule 2

- 5.2.2 The Licensee shall ensure that the annual environmental report also contains:
- (a) an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets; and
  - (b) a list of any original monitoring reports submitted to the Licensee from third parties in the reporting period and make these reports available on request.

### 5.3 Notification

- 5.3.1 The Licensee shall ensure that the parameters listed in Table 5.3.1 are notified to the Director at the Contact Address and in accordance with the notification requirements of the table.

Table 5.3.1: Notification requirements			
Condition or table	Parameter	Notification requirement <sup>1</sup>	Format or form
3.7.1	Target exceedance	As soon as practicable	None specified





## Schedule 1: Maps

### Premises map

The Premises is shown in the map below. The red line depicts the Premises boundary.





## Schedule 2: Reporting & notification forms

These forms are provided for the proponent to report monitoring and other data required by the Licence. They can be requested in an electronic format.

Copies of the original monitoring reports must also be submitted.

Licence: L7223/1997/10  
Form: AACR  
Name: Annual audit compliance report

Licensee: Shire of Harvey  
Period :

### Annual audit compliance report

#### Section A: Statement of compliance with Licence conditions

Were all conditions of licence complied with within the reporting period?		
Yes	<input type="checkbox"/>	Initial Sections A & B, then proceed to Section C
No	<input type="checkbox"/>	Initial Section A, then proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this annual audit compliance report (AACR).

Initial:





**Section B: Details of non-compliance with Licence condition**

a) Licence condition not complied with?	
b) Date(s) and time(s) the non compliance occurred, if applicable?	
c) Was this non compliance reported to DEC?	
<input type="checkbox"/> Yes, and  <input type="checkbox"/> Reported to DEC verbally    Date  <input type="checkbox"/> Reported to DEC in writing    Date	<input type="checkbox"/> No
d) Has DEC taken, or finalised any action in relation to the non compliance?	
e) Summary of particulars of non compliance, and what was the environmental impact?	
f) If relevant, the precise location where the non compliance occurred (attach map or diagram)	
g) Cause of non compliance	
h) Action taken or that will be taken to mitigate any adverse effects of the non compliance	
i) Action taken or that will be taken to prevent recurrence of the non compliance	

Please use a separate page for each Licence condition that was not complied with. Each page must be initialled by the person(s) who signs Section C of this AACR

Initial:



### Section C: Signature and certification

This AACR may only be signed by a person(s) with legal authority to sign it as defined below. Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the Licence holder is		The AACR must be signed and certified:
an individual	<input type="checkbox"/>	by the individual Licence holder, or
	<input type="checkbox"/>	by a person approved in writing by the Chief Executive Officer (CEO) of DEC to sign on the Licensee's behalf.
a corporation	<input type="checkbox"/>	by affixing the common seal of the Licensee in accordance with the Corporations Act 2001; or
	<input type="checkbox"/>	by two directors of the Licensee; or
	<input type="checkbox"/>	by a director and a company secretary of the Licensee, or
	<input type="checkbox"/>	if the Licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or
	<input type="checkbox"/>	by the principal executive officer of the Licensee; or
	<input type="checkbox"/>	by a person with authority to sign on the Licensee's behalf who is approved in writing by the CEO of DEC.
A public authority (other than a local government)	<input type="checkbox"/>	by the principal executive officer of the Licensee; or
	<input type="checkbox"/>	by a person with authority to sign on the Licensee's behalf who is approved in writing by the CEO of DEC.
a local government	<input type="checkbox"/>	by the CEO of the Licensee; or
	<input type="checkbox"/>	by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this AACR is correct and not false or misleading in a material particular.

Signature:

Name: (printed)

Position:

Date:

Seal (if signing under seal)

Signature:

Name: (printed)

Position:

Date:





# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Proponent:** Shire of Harvey

**Licence:** L7223/1997/10

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**Registered office:** 102 Uduc Road  
HARVEY WA 6220

**Premises address:** Harvey Shire Septage Site  
3001 South West Highway  
WARAWARRUP WA 6220  
Being Lot 3001 on Plan 49937

**Issue date:** Friday, 9 August 2013

**Commencement date:** Monday, 12 August 2013

**Expiry date:** Saturday, 11 August 2018

### 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 and legal requirements and that the Licence and its conditions will ensure that an appropriate level of environmental protection is provided.

Decision document prepared by:

.....Bradley Cox.....  
Regional Environmental Officer

Decision Document Authorised By:

.....Neville Welsh.....  
Regional Leader



## Contents

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1 Purpose of this Document	2
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## 1 Purpose of this Document

This decision document explains how DER has assessed and determined the application for a works approval or licence, 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: 1.1.1-1.1.3, 1.2.1, 1.2.2, 5.1.1 and 5.1.2.

Licence conditions: 1.1.1-1.1.3, 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 are 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)	Design Capacity
	61	3,000 tonnes per year
Application Verified	Date: 31/05/2013	
Application Fee Paid	Date: 18/06/2013	
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: Managed under Part V <input type="checkbox"/> 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: 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 type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input 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 <sub>2</sub> requirements of Kwinana EPP.		



## 2 Executive summary of proposal

The Harvey Shire Septage Site accepts biological and low strength waste waters, mainly from the Shire of Harvey. The wastewater (septage) is treated in one of four anaerobic treatment trenches, ranging in capacity from 315,000 litres to 485,000 litres. There is a designated off-loading concrete receival area which can direct wastewater to three of the trenches. The fourth trench has to be disposed into directly through a hose. Treated wastewater exits to a series of aerobic lagoons for evaporation (950 cubic metres and 372 cubic metres). Washdown facilities (washwater enters into the anaerobic trenches) for the liquid waste tankers is provided.

The main environmental concerns relate to odour and groundwater contamination. Liquid waste enters below the surface of the anaerobic trench to minimise odour release. All trenches and lagoons have been constructed with compacted clay liners. A groundwater monitoring bore is located below the hydraulic gradient of the facility and contamination of groundwater is unlikely due to the depth of clay (approximately 12m). Stormwater is managed by trenches around the facility to divert uncontaminated water from entering the site. There have been no recent complaints about the facility. A compliance inspection in March 2013 did not identify significant issues other than a need for removal of vegetation, which occurs periodically. Maintenance of the appropriate pH in the trenches was also identified as a minor issue, which is necessary to allow decomposition of the waste.

Solid material is removed from the trenches approximately every three years. It is taken to the biosolids area for drying and is then disposed of to landfill.



Approval	NSC	Information	Previous licence conditions
1.3.7	OSC, NSC	<p><b>Operation</b></p> <p><i>Emission Significance</i> - 1</p> <p><i>Socio-political context</i> - No concern or interest.</p> <p><i>Risk Assessment</i> - D – licence conditions</p> <p>Stormwater drains around the perimeter of the trenches and lagoons prevent clean water from entering them. L1.2.5 has been included as it is important that stormwater doesn't cause increased volume in the trenches or lagoons.</p> <p>Conditions are also required in relation to acceptance of waste (1.3.1), security measures at the site (1.3.2 – 1.3.3), management of the trenches and lagoons so as to minimise emissions (1.3.4, 1.3.5, 1.3.7) and management of solid waste (1.3.6). Waste acceptance conditions are needed as inappropriate acceptance could lead to excessive odour. Similarly, maintenance of freeboard, management of vegetation and management of trapped overflows helps minimise odour emissions and prevent waste from being discharged from the trenches and lagoons. Appropriate management of solid waste is necessary to minimise odour emissions.</p>	Previous licence conditions

conditions	N/A	<p><b>Operation</b>  <i>Emission Significance</i> – 1  <i>Socio-political context</i> – No concern or interest  <i>Risk Assessment</i> – E – no regulation, other management mechanisms</p> <p>The site is isolated from sensitive receptors and there have been no complaints about the facility. The main emission of concern is odour.</p>	Environmental Protection (Unauthorised Discharges Regulations, 2004).
	N/A	<p><b>Operation</b>  <i>Emission Significance</i> – 1  <i>Socio-political context</i> – No concern or interest  <i>Risk Assessment</i> – E – no regulation, other management mechanisms</p> <p>There are no surface water bodies near to the premises. Additionally there are no discharges from the trenches or lagoons as freeboard is maintained.</p>	Environmental Protection (Unauthorised Discharges Regulations, 2004).





DERISION 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 to land including monitoring	No specified conditions	N/A	<p><b>Operation</b>  <i>Emission Significance</i> – 1  <i>Socio-political context</i> – No concern or interest  <i>Risk Assessment</i> – E – no regulation, other management mechanisms</p> <p>There are no discharges to land applicable to this premises.</p>	Environmental Protection (Unauthorised Discharges Regulations, 2004).
Point source emissions to groundwater including monitoring	No specified conditions	N/A	<p><b>Operation</b>  <i>Emission Significance</i> – 1  <i>Socio-political context</i> – No concern or interest  <i>Risk Assessment</i> – E – no regulation, other management mechanisms</p> <p>There are no direct discharges to groundwater. The trenches and lagoons are clay lined and are underlain by deep clay.</p>	Environmental Protection (Unauthorised Discharges Regulations, 2004).
Fugitive Emissions	No specified conditions	N/A	<p><b>Operation</b>  <i>Emission Significance</i> – 1  <i>Socio-political context</i> – No concern or interest  <i>Risk Assessment</i> – E – no regulation, other management mechanisms</p> <p>Dust is not an issue at this site because the waste is in liquid form. The only dust generated is from vehicle movements which are minimal.</p>	Environmental Protection (Unauthorised Discharges Regulations, 2004).

		activities. Conditions have been included in this section about maintaining the crust through sub-surface pipes into the trenches and maintaining an appropriate pH for decomposition of the waste. Also, a general odour condition has been included to ensure that odour does not interfere with anyone who is not on the premises.	
	N/A	<b>Operation</b> <i>Emission Significance</i> – 1 <i>Socio-political context</i> – No concern or interest <i>Risk Assessment</i> – E – no regulation, other management mechanisms  This site is isolated from receptors and the only noise generated is from vehicle movements.	
	N/A	<b>Operation</b> <i>Emission Significance</i> – 1 <i>Socio-political context</i> – No concern or interest <i>Risk Assessment</i> – E – no regulation, other management mechanisms  No conditions are considered necessary in this section.	



		<i>Emission Significance</i> – 1 <i>Socio-political context</i> – No concern or interest <i>Risk Assessment</i> – E – no regulation, other management mechanisms  No conditions are considered necessary in this section.	
	N/A	<b>Operation</b> <i>Emission Significance</i> – 1 <i>Socio-political context</i> – No concern or interest <i>Risk Assessment</i> – E – no regulation, other management mechanisms  No conditions are considered necessary in this section.	
	N/A	<b>Operation</b> <i>Emission Significance</i> – 1 <i>Socio-political context</i> – No concern or interest <i>Risk Assessment</i> – E – no regulation, other management mechanisms  No conditions are considered necessary in this section.	

N/A	<b>Operation</b> <i>Emission Significance</i> – 1 <i>Socio-political context</i> – No concern or interest <i>Risk Assessment</i> – E – no regulation, other management mechanisms  No conditions are considered necessary in this section.	
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*Environmental Protection Act 1986*  
Decision Document L7223/1997/10  
File Number: DEC8532



## Appendix A

### EMISSIONS AND DISCHARGES RISK ASSESSMENT MATRIX

Note: These matrix are taken from the current DEC Officer's Guide to Emissions and Discharges Risk Assessment May 2006.

**Table 3: Measures of Significance of Emissions**

Emissions as a percentage of the relevant emission or ambient standard		Worst Case Operating Conditions (95 <sup>th</sup> Percentile)			
		>100%	50 – 100%	20 – 50%	<20%*
Normal Operating Conditions (50 <sup>th</sup> Percentile)	>100%	5	N/A	N/A	N/A
	50 – 100%	4	3	N/A	N/A
	20 – 50%	4	3	2	N/A
	<20%*	3	3	2	1

\*For reliable technology, this figure could increase to 30%

**Table 4: Socio-Political Context of Each Regulated Emission**

		Relative proximity of the interested party with regards to the emission				
		Immediately Adjacent	Adjacent	Nearby	Distant	Isolated
Level of Community Interest or Concern*	5	High	High	Medium High	Medium	Low
	4	High	High	Medium High	Medium	Low
	3	Medium High	Medium High	Medium	Low	No
	2	Low	Low	Low	Low	No
	1	No	No	No	No	No

Note: These examples are not exclusive and professional judgement is needed to evaluate each specific case

\*This is determined by DEC using the DEC "Officer's Guide to Emissions and Discharges Risk Assessment" May 2006.

**Table 5: Emissions Risk Reduction Matrix**

		Significance of Emissions				
		5	4	3	2	1
Socio-Political Context	High	A	A	B	C	D
	Medium High	A	A	B	C	D
	Medium	A	B	B	D	E
	Low	A	B	C	D	E
	No	B	C	D	E	E

#### PRIORITY MATRIX ACTION DESCRIPTORS

A = Do not allow (fix)

B = licence condition (setting limits + EMPs - short timeframes)(setting targets optional)

C = licence condition (setting targets + EMPs - longer timeframes)

D= EIPs, other management mechanisms/licence conditions (monitoring/reporting)/other regulatory tools

E = No regulation, other management mechanisms