



Government of **Western Australia**
Department of **Environment Regulation**

Your ref: L8759/2013/1
Our ref: 2013/003217
Enquiries: Stephen Checker
Phone: 9724 6133
Fax: 9333 7550
Email: Stephen.checker@der.wa.gov.au

Mr Wayne Banks
ESH Manager
Bechtel (Western Australia) Pty Ltd
140 St. Georges Terrace
PERTH WA 6000

Attn: Andrew Mussell

Via email: amusell@bechtel.com

Dear Mr Banks

ENVIRONMENTAL PROTECTION ACT 1986 – AMENDMENT TO LICENCE

Premise name: Wheatstone Waste Management Site

Premise location: Part of Lot 1577 on Plan 72843.

Premises suburb: Talandji WA 6710

Further to my letter dated 19 October 2016, please find enclosed your amended *Environmental Protection Act 1986* licence.

If you have any questions or objections relating to the licence, please do not hesitate to contact the enquiries officer above on (08) 9168 4218 for clarification or discussion of any grievances you have.

If you are concerned about, or object to any aspect of the amendment, you may lodge an appeal with the Minister for the Environment within 21 days from the date on which this licence is received. The Office of the Appeals Convenor can be contacted on 6467 5190 to find out the procedure and fee.

Members of the public may also appeal the amendments. The Appeals Registrar at the Office of the Appeals Convenor can be contacted after the closing date of appeals to check whether any appeals were received.

Yours sincerely

Steve Checker
MANAGER LICENSING (WASTE INDUSTRIES)
Officer delegated under Section 20
of the *Environmental Protection Act 1986*

17 March 2017

enc: Amended Licence L8759/2013/1

copy to: Local Government Authority: Shire of Ashburton

The Atrium, 168 St Georges Terrace, Perth WA 6000
Phone (08) 6467 5000 Fax (08) 6467 5562
Postal Address: Locked Bag 33, Cloisters Square, Perth WA 6850
www.der.wa.gov.au



Licence

Environmental Protection Act 1986, Part V

Licensee: Bechtel (Western Australia) Pty Ltd
Licence: L8759/2013/1

Registered office: 140 St. Georges Terrace
PERTH WA 6000

ACN 147 531 226

Premises Address: Wheatstone Waste Management Site
Part of Lot 1577 on Plan 72843 within E297497.683, N7590467.174;
E297793.692, N7590356.796, E297741.225, N7590237.511,
E297597.633, N7590279.461, E297448.432, N7590335.097,
E297607.645, N7590289.530 TALANDJI WA 6710
As depicted in Schedule 1.

Issue date: Thursday, 29 August 2013

Commencement date: Monday, 2 September 2013

Expiry date: Sunday, 1 September 2024

Prescribed premises category

Schedule 1 of the *Environmental Protection Regulations 1987*

| Category number | Category description | Category production or design capacity | Assessed premises production or design capacity |
|-----------------|--|--|---|
| 57 | Use tyre storage (general): premises (other than premises within category 56) on which used tyres are stored | 100 tyres or more | 3 m ³ of shredded tyres or 150 whole tyres |
| 61 | Liquid waste facility: premises on which liquid waste produced on others premises is stored, reprocessed, treated or irrigated. | 100 tonnes or more per year | 10,000 tonnes per annual period |
| 62 | Solid waste depot – premises on which waste is stored or sorted pending final disposal or re-use | 500 tonnes or more | 40,000 tonnes per annual period |
| 67A | Compost manufacturing and soil blending: premises on which organic material (excluding silage) or waste is stored pending processing, mixing, drying or composting to produce commercial quantities or compost or blended soils. | 1,000 tonnes or more per year | 1,460 tonnes per annual period |

Conditions of Licence

This Licence is subject to the conditions set out in the attached pages.

[Redacted]
[Redacted]
[Redacted]

Steve Checker
MANAGER LICENSING (WASTE INDUSTRIES)
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.

Premises Description and Licence Summary

Our industry licensing role

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 advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DER has responsibilities under Part V of the *Environmental Protection Act 1986* for the licensing of prescribed premises. Through this process DER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

Licence requirements

This licence is issued under Part V of the *Environmental Protection Act 1986*. Conditions contained within the licence relate to the prevention, reduction or control of emissions and discharges to the environment 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 *Environmental Protection Act 1986* and any other statutory instrument. Legislation 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 must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.

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.

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 *Environmental Protection Act 1986* you may have had conditions imposed by the Minister for Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and Licence summary

Bechtel (Western Australia) Pty Ltd (Bechtel) has applied to transfer the licence from Veolia Environmental Services (Australia) Pty Ltd which currently operates the Wheatstone Waste Management Site (the premises). The premises are located within the Ashburton North Village approximately 12 kilometres west from Onslow. Bechtel is responsible for the collection, handling, recycling and disposal of the vast majority of waste being generated during the construction phase of the Wheatstone Project. Construction and operation of the facility is occurring in the following stages:

- Stage 1 – The southern portion of the proposed waste handling facility including the site office, sea containers, reefers (refrigerated container), generator and vehicle parking areas; and
- Stage 2 – The northern portion of the waste handling site including the main shed and two composters;

Stage 1 of the facility included the basic collection and off-site disposal of waste while construction of Stages 2 and 3 was being progressed.

Stage 2 (composters 1 and 2) have since been constructed and commissioned. Different types of wastes that are handled on the premises include food and kitchen waste, paper and cardboard, metal scraps, glass, plastic, sewage sludge, electric and fibre optics waste, oily waste, oily water etc. The main activities occurring on the premises are limited to sorting and collection of waste prior to composting on-site or disposal off-site.

The Licences and Works approvals issued for the Premises are:

| Instrument Log | | |
|----------------|------------|---|
| Instrument | Issued | Description |
| W5247/2012/1 | 13/9/2013 | New application – Stages 1,2 and 3 |
| L8759/2013/1 | 29/8/2013 | New application – Stage 1 |
| L8759/2013/1 | 27/11/2014 | Amendment to include categories 57, 61 and 67A |
| L8759/2013/1 | 12/11/2015 | Amendment to change premises boundary |
| L8759/2013/1 | 11/02/2016 | Amendment to change premises boundary |
| L8759/2013/1 | 29/04/2016 | Amendment to change Licence expiry date |
| L8759/2013/1 | 17/03/2017 | Amendment to change Licensee and upgrade the Waste Transfer station |



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 In the Licence, unless the contrary intention appears:

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

'Annual Audit Compliance Report' means a report in a format approved by the CEO as presented by the Licensee or as specified by the CEO from time to time and published on the Department's website;

'annual period' means a 12 month period commencing from 1 July until 30 June in the following year;

'AS 4454' means Australian Standard AS 4454 *Composts, soil conditioners and mulches*;

'biosolids' has the meaning defined in the Biosolids Guidelines;

'Biosolids Guidelines' means the document titled 'Western Australian guidelines for biosolids management' published by the Chief Executive Officer of the Department of Environment and Conservation as amended from time to time;

'CEO' means Chief Executive Officer of the Department of Environment Regulation;

'CEO' for the purpose of correspondence and advice means:

Director General
Department Administering the *Environmental Protection Act 1986*
Locked Bag 33 Cloisters Square
PERTH WA 6850
info@der.wa.gov.au

'compost' means an organic product that has undergone controlled aerobic and thermophilic biological transformation through the composting process;

'composting' means the process whereby organic materials are microbiologically transformed under controlled aerobic conditions;

'Dangerous Goods Area' means the area depicted in Schedule 1 Construction Map;

'Department' means the department established under s.35 of the Public Sector Management Act and designated as responsible for the administration of Division 3 Part V of the *Environmental Protection Act 1986*;



'Inert Waste Type 1' has the meaning defined in Landfill Definitions;

'Inert Waste Type 2' has the meaning defined in Landfill Definitions;

'Landfill Definitions' means the document titled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer of the Department of Environment as amended from time to time;

'Licence' means this Licence numbered L8759/2013/1 and issued under the Act;

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

'NATA' means the National Association of Testing Authorities, Australia;

'NATA accredited' means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;

'New Northern Bunded Area' means the area depicted in Schedule 1 Construction Map;

'New Southern Bunded Area' means the area depicted in Schedule 1 Construction Map;

'New Northern Wash Area' means the area depicted in Schedule 1 Construction Map;

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

'Putrescible' has the meaning defined in Landfill Definitions;

'Schedule 1' means Schedule 1 of this Licence unless otherwise stated;

'Schedule 2' means Schedule 2 of this Licence unless otherwise stated;

'Special Waste Type 2' has the meaning defined in Landfill Definitions;

'Waste Code' means the Waste Code assigned to a type of controlled waste for purposes of waste tracking and reporting as specified in the Department of Environment Regulation "Controlled Waste Category List" (July 2014), as amended from time to time; and

'Works' means the construction of a Hazardous Waste storage area, a Dangerous Goods storage area and a Wash Area on the Premises.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.

1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.

1.2 General conditions

1.2.1 The Licensee shall ensure that stormwater within the premises is adequately managed so that it is diverted from areas of the premises where there is waste (as defined in Table 1.3.1) and stormwater that has come into contact with any waste (as defined in Table 1.3.1) is to be diverted into a sump or otherwise contained on the premises.

1.2.2 The Licensee must ensure that the Works specified in Column 1 of Table 1.2.1 meet or exceed the specifications in Column 2 of Table 1.2.1 for the infrastructure in each row of Table 1.2.1.



- 1.2.3 The Licensee must not depart from the specifications in Column 1 and 2 for the infrastructure in each row of Table 1.2.1 except:
- where such departure is minor in nature and does not materially change or affect the infrastructure; or
 - where such departure improves the functionality of the infrastructure and does not increase risks to public health, public amenity or the environment; and in accordance with all other conditions in this Licence.

| Table 1.2.1: Works specifications | |
|--|--|
| Column 1 | Column 2 |
| Infrastructure | Specifications (design and construction) |
| 1) Bunded Hazardous Waste Area | <p>The New Northern Bunded hardstand must;</p> <ol style="list-style-type: none"> be initially lined using Preprufe membrane or equivalent consist of impervious concrete construction; drain to a sump; conform to the dimensions - 8.5m length and 24m width with a maximum area of 402m²; be engineered and constructed so as to be capable of accommodating the weight and movement of materials, vehicles and equipment used in operations, without distortion, cracking or otherwise compromising the integrity of the liner or altering the permeability; have a minimum 0.5% drainage gradient to ensure the free drainage of all liquid waste to the sump; have an impervious bunding of at least 150mm to prevent run-on and run-off of surface water, including a 1 in 20 year storm event (20 year average recurrence interval) of 72 hours duration; and have a seal between the hardstand and any bunding that is impervious (permeability 1x10⁻⁹m/s or less). <p>The New Southern Bunded hardstand must:</p> <ol style="list-style-type: none"> be initially lined using Preprufe membrane or equivalent; consist of impervious concrete construction; drain to a sump; conform to the dimensions - 20m length and 25m width with a maximum area of 500m²; be engineered and constructed so as to be capable of accommodating the weight and movement of materials, vehicles and equipment used in operations without distortion, cracking or otherwise compromising the integrity of the liner or altering the permeability; have a minimum 0.5% drainage gradient to ensure the free drainage of all liquid waste to the sump; have an impervious (permeability 1x10⁻⁹m/s or less) bunding of at least 150mm to prevent run-on and run-off of surface water, including a 1 in 20 year storm event (20 year average recurrence interval) of 72 hours duration; and have a seal between the hardstand and any bunding that is impervious (permeability 1x10⁻⁹m/s or less). |
| 2) Dangerous Goods Area | <p>The Dangerous Goods Area must;</p> <ol style="list-style-type: none"> incorporate no more than three (3) impervious, self bunded, modified sea containers as depicted in Schedule 2 of this licence; be designed so that the transfer of dangerous goods to and from sea containers occurs over a hardstand area which; <ol style="list-style-type: none"> is initially lined using Preprufe membrane or equivalent; consists of impervious concrete construction; is engineered and constructed so as to be capable of accommodating the weight and movement of materials, vehicles and equipment used in the operations, without distortion, cracking or otherwise compromising the integrity of the liner or altering the permeability; and has a minimum 0.5% drainage gradient to ensure the free |



| | |
|---------------------|--|
| | drainage of all liquid waste to a sump. |
| 3) Bunded Wash Area | <p>The bunded hardstand must;</p> <ul style="list-style-type: none">(i) be initially lined using Preprufe membrane or equivalent(ii) consist of impervious concrete construction;(iii) conform to the dimensions - 10m length and 15m width with a maximum area of 150m²;(iv) be engineered and constructed so as to be capable of accommodating the weight and movement of materials, vehicles and equipment used in the operation of the hardstand, without distortion, cracking or otherwise compromising the integrity of the liner or altering the permeability;(v) have a minimum 0.5% drainage gradient to ensure the free drainage of all liquid waste to the sump;(vi) have an impervious bunding of at least 150mm to prevent run-on and run-off of surface water, including a 1 in 20 year storm event (20 year average recurrence interval) of 72 hours duration; and(vii) have a seal between the hardstand and any bunding that is impervious (permeability 1×10^{-9} m/s or less). |

- 1.2.4 Subject to Condition 1.2.2, the Licensee must, at least 21 days prior to the commencement of the Works, provide to the CEO detailed engineering and construction drawings and plans that are certified by a suitably qualified professional engineer that each item of infrastructure specified in Column 1 of Table 1.2.1 meets or exceeds the specifications in Column 2 of Table 1.2.1 for the infrastructure in each row of Table 1.2.1.
- 1.2.5 The Licensee must submit a construction compliance document to the CEO, following the construction of the Works.
- 1.2.6 The Licensee must ensure the construction compliance document:
- (a) is certified by a suitably qualified professional engineer or builder that each item of infrastructure specified in Condition 1.2.3, Table 1.2.1 has been constructed in accordance with the Conditions of the Licence with no material defects; and
 - (b) be signed by a person authorised to represent the Licensee and contain the printed name and position of that person within the company.



1.3 Premises operation

1.3.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit in this section.

1.3.2 The Licensee shall only accept waste on to the Premises if:

- (a) it is of a type listed in Table 1.3.1;
- (b) the quantity accepted is below any quantity 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 type | Waste Code | Quantity Limit | Specification ¹ |
|---|--|------------------------------------|---|
| Solid | | | |
| Inert Waste Type 1 | N/A | | <ul style="list-style-type: none"> Abrasive blasting residue Cement and concrete Glass Insulation and refractory (excluding asbestos) Light bulbs (non- mercury) Metal Plastic |
| Putrescible waste | K110, K130, K200, K210 | 30,003 tonnes per annual period | <ul style="list-style-type: none"> Domestic waste Filters (non-hydrocarbon service) Filtration media (non-hydrocarbon service) Food Paper and cardboard Vessel packaging media (non-hydrocarbon service) Wood (treated) |
| Inert Waste Type 2 | T140) | No more than 150 tyres at any time | N/A |
| Septage wastes (solids including biosolids) | K210 | 6,205 tonnes per annual period | Sludge (sanitary) |
| Solid Hazardous Wastes | B100, C100, D120, D151, D211, D221, D300, J100, J170, K110, K130, K200, M230, N100, N120, T100. N/A for other specified wastes | 860 tonnes per annual period | <ul style="list-style-type: none"> Absorbents Batteries (alkaline) Batteries (metal) Compressed gas cylinders and aerosol cans Containers and drums (containing residue) Electrical and e-waste Filters (hydrocarbon service) Filtration media, vessel packaging and molecular sieve (hydrocarbon service) Molecular sieve (hydrocarbon service) Industrial solid waste (missed) Laboratory wastes (solids) Light bulbs (containing mercury) Soil (hydrocarbon |



| | | | |
|--------------------------|---|------------------------------------|--|
| | | | contaminated) • Activated carbon |
| Special Waste Type 2 | R100 | 15m ³ per annual period | • Clinical waste |
| Liquid Waste | | | |
| Liquid Hazardous Wastes | B100 Acids C100 Bases D140 F100, F110, F120, F130, G100, G110, G150, G160, J100, J120, J130, K110, K200, M130, M160, M250, N140, N190, N205, T100. | 4500 tonnes per annual period | <ul style="list-style-type: none"> • Acidic/caustic solutions • Amine sludges • Chemicals • Cooking oil • Fire-fighting foams • Industrial liquid waste (mixed) • Laboratory wastes (liquids) • Oils • Oil-water mixtures • Sludge and scale (hydrocarbon) • Sludge and scale (inorganic) • Solvents and organic wash fluids |
| Septage wastes (liquids) | K130, K210 | 500 tonnes per annual period | N/A |
| Industrial wash water | L100, L150 | 5000 tonnes per annual period | <ul style="list-style-type: none"> • Industrial wash waters and other wash waters and stormwaters contaminated with controlled waste. |

Note 1: Additional requirements for the acceptance of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

1.3.3 The Licensee shall ensure that where waste does not meet the waste acceptance criteria set out in condition 1.3.2 it is removed from the Premises by the delivery vehicle or, where that is not possible, stored in a segregated storage area or container and removed to an appropriately authorised facility as soon as practicable.



- 1.3.4 The Licensee shall ensure that 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 |
| Inert Waste Type 1 | Receipt, handling, compaction and storage prior to disposal | Stored, sorted and compacted in designated bins prior to transport offsite. Crushing and screening of Inert Waste Type 1 is not permitted |
| Putrescible Waste | Receipt, handling, compaction and storage prior to disposal or treatment by composting | <ul style="list-style-type: none"> • Stored, sorted and compacted in designated bins prior to transport offsite. • The core temperature of the composters is maintained between 30°C and 50°C for a period of at least three days. • Moisture level of the Biofilters media shall be maintained between 40 to 60 per cent. • Ensure that, as a minimum, compost meets physical and chemical requirements set out by AS4454. • Dewatering water and leachate to be stored in underground tank(s) prior to removal from site. |
| Inert Waste Type 2 | Receipt, handling and storage prior to disposal | <ul style="list-style-type: none"> • Maximum of 150 tyres (or 3 m³ of shredded tyres) is to be stored on the premises at any one time. • Only to be stored and sorted in designated bins or banded areas prior to transport offsite. • Tyres to be stored in bins with up to 100 units per bin and a 6m separation distance between each bin. |
| Septage wastes (solids) | | Collected in 3 m ³ or 6 m ³ skips bins or similar and stored onsite prior to transport offsite. |
| Solid Hazardous Wastes | | Only to be stored and sorted in designated bins or banded areas prior to transport offsite. |
| Liquid Hazardous Wastes | | Collected via vacuum tanker and consolidated prior to transport offsite. |
| Septage wastes (liquids) | | Only to be collected and stored in locked bins prior to removal offsite. |
| Special Waste Type 2 | | |

- 1.3.5 The Licensee shall implement the following security measures at the site:
- erect and maintain suitable fencing to prevent unauthorised access to the waste shed and other installed waste infrastructure; the Hazardous Waste Area; the Washwater Area and the Dangerous Goods Area;
 - ensure that any entrance gates to the premises are securely locked when the premises is unattended; and
 - undertake regular inspections of all security measures and repair damage as soon as practicable.
- 1.3.6 The Licensee shall take all reasonable and practical measures to ensure that no windblown litter escapes from the Premises.
- 1.3.7 The Licensee shall ensure that no waste is burnt on the premises.



2 Monitoring

2.1 General monitoring

- 2.1.1 The licensee shall ensure that:
- (a) all compost samples are collected and preserved in accordance with AS 4454; and
 - (b) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured.
- 2.1.2 The Licensee shall ensure that monthly monitoring is undertaken at least 15 days apart.
- 2.1.3 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.
- 2.1.4 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 CEO accompanied with a report comprising details of any modifications to the methods.

2.2 Monitoring of inputs and outputs

- 2.2.1 The Licensee shall undertake the monitoring in Table 2.2.1 according to the specifications in that table.

| Table 2.2.1 Monitoring of inputs and outputs | | | | |
|--|---------------------------------------|---|------------------|------------------------------------|
| Input/Output | Parameter | Units | Averaging Period | Frequency |
| Waste Inputs | Waste type as detailed in Table 1.3.1 | tonnes (where a weighbridge is present on the site) | N/A | Each load arriving at the Premises |
| Waste composted | | m ³ (where no weighbridge is present) | | Monthly |
| Waste Outputs | | | | Each load leaving the Premises |

2.3 Process monitoring

- 2.3.1 The Licensee shall undertake the monitoring in Table 2.3.1 according to the specifications in that table and record results

| Table 2.3.1 Process monitoring | | | | |
|--------------------------------|---|------------------|------------|----------------------|
| Monitoring point reference | Process description | Parameter | Frequency | Method |
| Composters 1 and 2 | Composting | Temperature | Continuous | Automated monitoring |
| Biofilter media 1 & 2 | Odour control | Moisture content | | |
| Biofilter media 1 & 2 | Odour control | Odour | Monthly | Dynamic olfactory |
| Compost quality | Sampled and tested in accordance with AS 4454 | | Monthly | AS 4454 |



3 Information

3.1 Records

- 3.1.1 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 3.1.1(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 or any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect condition of the land or waters.
- 3.1.2 The Licensee must submit to the CEO by 30 September each year, an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the Conditions in this Licence for the previous Annual Period.
- 3.1.3 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.
- 3.1.4 The Licensee shall implement and maintain a system which ensures that a record is made of:
- (a) the waste types and quantities accepted at the Premises; and
 - (b) the waste types and quantities removed from the Premises.

3.2 Reporting

- 3.2.1 The Licensee shall submit to the CEO an Annual Environmental Report by 30 September each year. The report shall contain the information listed in Table 3.2.1 in the format or form specified in that table.

| Table 3.2.1: Annual environmental report | | |
|--|---|-----------------------------|
| Condition or Table (if relevant) | Parameter | Format or Form ¹ |
| - | Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken | None specified |
| 2.2.1 | Inputs and Outputs | None specified |
| 2.3.1 | Process monitoring | None specified |
| 3.1.3 | Complaints summary | None specified |

Note 1: Forms are in Schedule 3



3.3 Notification

3.3.1 The Licensee shall ensure that the parameters listed in Table 3.3.1 are notified to the CEO and in accordance with the notification requirements of the table.

| Table 3.3.1: Notification requirements | | | |
|---|--|---|-----------------------------------|
| Condition or table (if relevant) | Parameter | Notification requirement¹ | Format or form² |
| 1.3.1 | Breach of any limit specified in the Licence | Part A: As soon as practicable but no later than 5pm of the next usual working day. Part B: As soon as practicable | N1 |
| 3.1.3 | Receipt of a complaint | As soon as practicable but no later than 5pm of the next usual working day. | None specified |

Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act.

Note 2: Forms are in Schedule 3



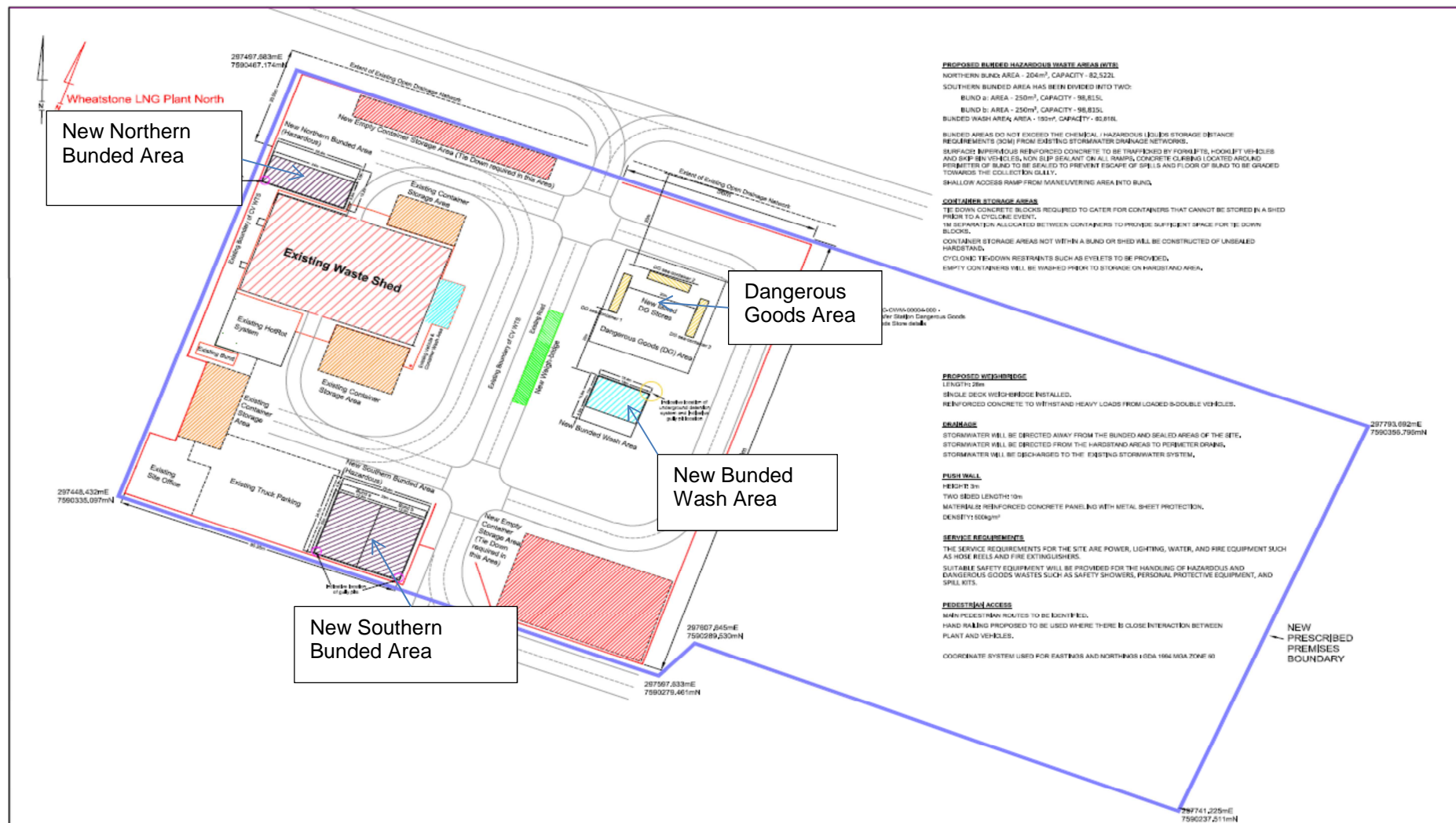
Schedule 1: Maps

Premises map

The Premises are shown in the map below. The yellow line depicts the Premises boundary.

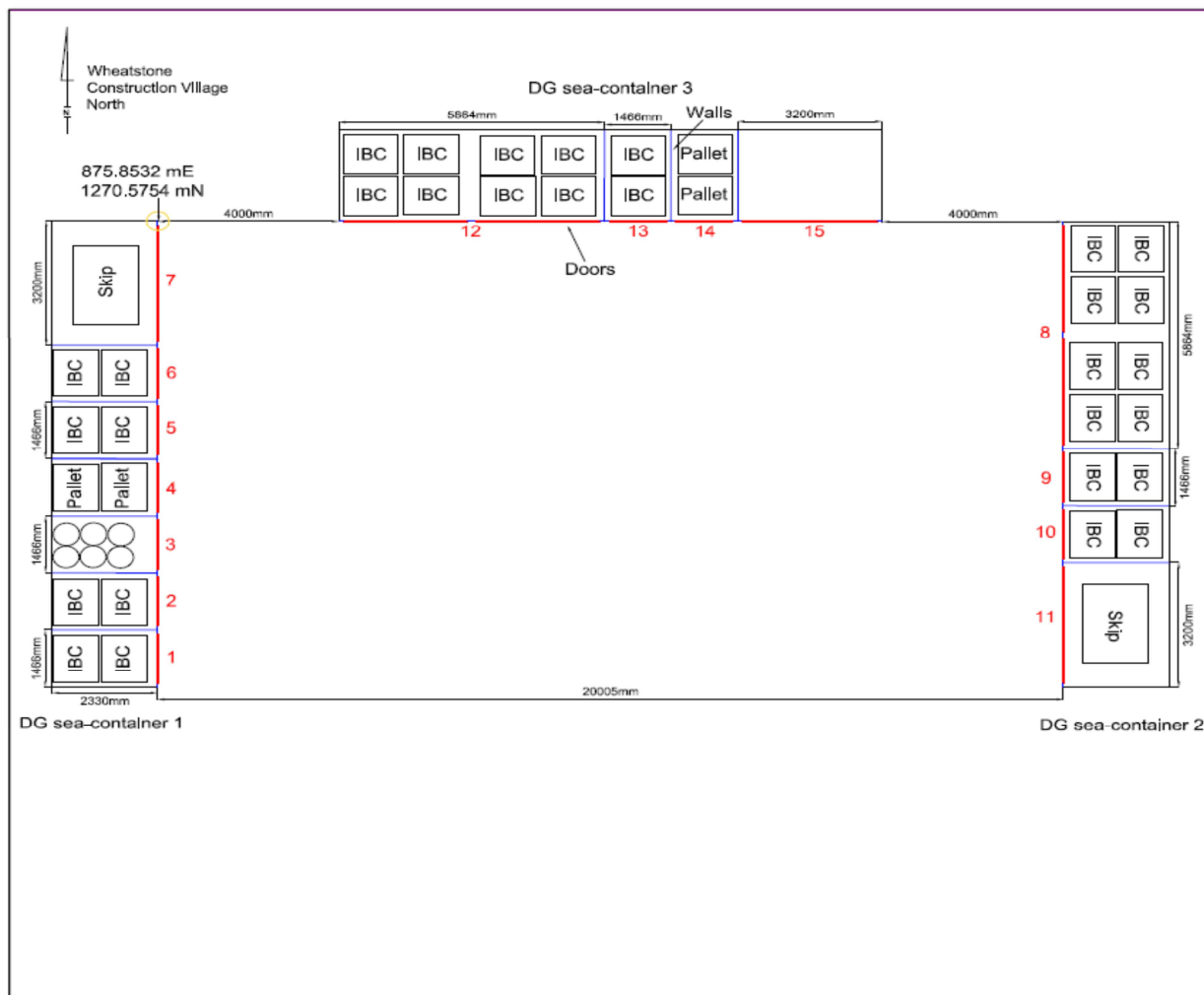


Schedule 1: Construction Map





Schedule 2: Dangerous Goods Store



Dangerous Goods (DG) stores

DG sea-containers are modified into separated bunded compartments within individual entrance points to allow for separation between DG materials.

Bund Areas and Capacities within DG store (AS 3833:2007 CI 5.4.3)

- Bund 1 - Class 8 - Acidic Solutions: 3.4m², 1,500L
- Bund 2 - Class 8 - Caustic Solutions: 3.4m², 1,500L
- Bund 3 - Various - Chemicals: 3.4m², 512,50L
- Bund 4 - Class 2 - Aerosol Cans: 3.4m², 1,500L
- Bund 5 - Class 6.1 - Mercury Light Bulbs: 3.4m², 1,500L
- Bund 6 - Class 3 - Solvents and Organic Wash Fluids: 3.4m², 1,500L
- Bund 7 - Class 3 - Containers and Drums (containing residue): 7.5m², 3,000L
- Bund 8 - Class 3 - Oils: 13.7m², 3,000L
- Bund 9 - Class 8 - Amine Sludge/Liquid: 3.4m², 1,500L
- Bund 10 - Class 9 - Laboratory Liquids: 3.4m², 1,500L
- Bund 11 - Class 9 - Laboratory Solids: 7.5m², N/A
- Bund 12 - Class 8 - Industrial Liquids: 13.7m², 3,000L
- Bund 13 - Class 3 - Hydrocarbon Sludge and Scale: 3.4m², 1,500L
- Bund 14 - Class 8 - Batteries Metal (WET): 3.4m², 1,500L
- Bund 15 - Spare: 7.5m², 2,000L

Signs (AS 3833:2007 CI 7.4)

DANGER - NO SMOKING, NO NAKED FLAMES; and
WARNING; RESTRICTED AREA, AUTHORISED PERSONNEL ONLY

Ventilation

Ventilation will be natural in accordance with AS 3833:2007 CI 5.4.5.1 and AS 1940:2004 CI 4.5.4

Lighting (AS 3833:2007 CI 5.4.4)

During the hours of operation lighting shall be sufficient to provide safe working conditions to the luminescence specified in AS 1680.2.0, Lighting shall be available on any of the installation's internal roads when they may be used by personnel at the premises

Fire Protection (AS 3833:2007 CI 9.11)

Portable fire extinguishers, suitable for use on the DG's being stored and fire hose reels as per AS/NZS 1221.

Fire equipment to be located adjacent to DG store exits,

WS1-0000-FGS-LAY-BRC-CWM-00001-000 - Waste Transfer Station
Overall Fire Safety Design Site Plan Drawing.

Cyclone Tie Downs

Containers will be permanently tied down as per drawing
WS1-0000-STR-DTL-BEC-CWM-00005-000 Waste Transfer Station
Cyclonic Tie Down Typical Details.



Schedule 3: Reporting & Notification Forms

Licence: L8759/2013/1 Licensee: Bechtel (Western Australia) Pty Ltd
Form: N1 Date of breach:

Notification of detection of the breach of a limit.

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

| | |
|--------------------------------|--|
| Licence Number | |
| Name of operator | |
| Location of Premises | |
| Time and date of the detection | |

Notification requirements for the breach of a limit

| | |
|---|--|
| Emission point reference/ source | |
| Parameter(s) | |
| Limit | |
| Measured value | |
| Date and time of monitoring | |
| Measures taken, or intended to be taken, to stop the emission | |

Part B

| | |
|--|--|
| Any more accurate information on the matters for notification under Part A. | |
| Measures taken, or intended to be taken, to prevent a recurrence of the incident | |
| Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission | |
| The dates of any previous N1 notifications for the Premises in the preceding 24 months. | |

| | |
|------------------------|--|
| Name | |
| Post | |
| Signature on behalf of | |



| | |
|-------------------------------------|--|
| Bechtel (Western Australia) Pty Ltd | |
| Date | |



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Bechtel (Western Australia) Pty Ltd

Licence: L8759/2013/1

Registered office: 140 St. Georges Terrace
PERTH WA 6000

ACN 147 531 226

Premises Address: Wheatstone Waste Management Site
Part of Lot 1577 on Plan 72843 within E297503.076, E297597.942,
N7590279.772, E297607.645, N7590289.530, E297741.225,
N7590237.511, E297792.904, N7590355.005 TALANDJI WA 6710

Issue date: Thursday, 29 August 2013

Commencement date: Monday, 2 September 2013

Expiry date: Sunday, 1 September 2024

Decision

Based on the assessment detailed in this document, the Delegated Officer has decided to issue an amended licence. The Delegated Officer considers that in reaching this decision, all relevant considerations have been taken into account.

Decision Document prepared by: Damian Thomas
Licensing Officer

Decision Document authorised by: Steve Checker
Delegated Officer



Contents

| | |
|--|----|
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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"/> New Licence <input type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/> | | | |
| Activities that cause the premises to become prescribed premises | Category number(s) | Assessed design capacity | | |
| | 57 | 150 tyres (3m ³ of tyres) | | |
| | 61 | 10,000 tonnes per annual period | | |
| | 62 | 40,000 tonnes per annual period | | |
| | 67A | 1,460 tonnes per annual period (based on 4 tonnes per day) | | |
| Application verified | Date: NA | | | |
| Application fee paid | Date: NA | | | |
| 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 | N/A. | | | |
| Is the proposal a Major Resource Project? | Yes <input checked="" type="checkbox"/> No <input 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 checked="" type="checkbox"/> No <input type="checkbox"/> Part of the Wheatstone Project | Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input checked="" type="checkbox"/> | | |
| Is the proposal subject to Ministerial Conditions? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Ministerial statement No: 873 EPA Report No: 1404 | | |
| 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 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

Bechtel (Western Australia) Pty Ltd (Bechtel) has submitted a licence amendment to transfer the licence from the previous Licensee Veolia Environmental Services (Australia) Pty Ltd to Bechtel who will continue operating the Wheatstone Waste Management Site (WMS). The premises is located within the Ashburton North Village approximately 12 kilometres south-west from Onslow, and 6 km north-east from the sensitive receptor being Onslow solar salt. Bechtel is responsible for the collection, handling, recycling and disposal of the vast majority of waste being generated during the construction phase of the Wheatstone Project (~ 6 years).

This licence amendment has also been initiated by Bechtel to incorporate an increase in the Production and Design Capacity (P&DC) of Category 61 from 800 tonnes per annual period to 10,000 tonnes per annual period to allow for the acceptance of greater volumes of liquid waste and an increase in the P&DC of Category 62 from 37,876 to 40,000 tonnes per annual period. Application was also made for additional waste streams accepted, to extend the prescribed premises boundary to parallel the existing premises fence and to upgrade and construct new bunded storage infrastructure to store and handle the increase in liquid waste received at the premises. Figure 1 provides an overview of the WMS.

The existing Site facilities include the operations within the fully sealed and impervious floor Waste Transfer Station (WTS) building, the Hot Rot composting system and utilisation of the freezer containers. These components of the WTS have previously received approval from the DER to operate under the WMS Licence.

The WTS building is 50 m x 30 m in dimensions, fully enclosed and weatherproof and houses the following:

- In-vessel Hot Rot composting unit feed system;
- Push wall and impermeable tipping floor;
- Recyclables baler;
- Drum crusher; and
- Material shredder.

The additional area within the WMS also includes the following activities:

- Storage of empty waste receptacles;
- Consolidation of timber waste; moving waste from smaller bins used for collection from the work fronts and using an excavator with a claw attachment to crush into smaller pieces and load into larger bins for transport off site to final disposal or recycling;
- Consolidation of Scrap Metal waste; moving waste from smaller bins used for collection on the work fronts to larger bins for transport off site for recycling using an excavator with a magnet or claw attachment; and
- Loading consolidated bins of timber / scrap metal onto trucks for transport off site to disposal or recycling facilities.

In accordance with the existing Licence the WMS acts as a waste transfer station accepting a variety of waste types for storage, processing, or consolidation for transportation off site. Waste delivered to the Site is inspected to confirm its category, recorded and directed to its designated area for unloading.

Individual waste streams are stored in designated storage areas including, solid and liquid hazardous wastes and non-hazardous solid wastes. Non-hazardous solid wastes arrive in containers and depending on the nature of the material are either unloaded onto the WTS floor or loaded directly into a B-Double, Hooklift, Skip bin or similar, stored in its existing container. Containers that hold waste at the Site include but are not limited to the following:



Solid/hazardous wastes:

- Skip bins;
- Hook-lift bins;
- Sea containers;
- Reefers (freezer sea containers);
- Mobile garbage bins (MGBs);
- Steel framed cages;

Liquid/hazardous wastes:

- Intermediate bulk containers (IBCs);
- Barrels and self bunded pallets; and
- Isotainers.

In addition to being stored in the above containers, hazardous wastes at the WMS are stored in a bunded area, on a bunded pallet or self-bunded. The bunds are designed in accordance with relevant standards and constructed of impermeable material such as concrete or high density polyethylene (HDPE) plastic.

This Decision Document is based on an assessment of the emissions and discharges from the premises including the application for a Licence amendment and Licence Transfer for the Wheatstone Waste Management Site dated 19 May 2016, Wheatstone Project LNG Plant Wheatstone Waste Transfer Station Upgrade – Licence Amendment Application (L8759/2013/1) May 2016 and additional document Wheatstone Project LNG Plant – Application for Licence Amendment and Licence Transfer for the Wheatstone Waste Management Site (L8759/2013/1) – Response to Queries submitted 5 July 2016.

Location and siting

The WMS premises location current features are:

- Land use: The site is an existing Waste Transfer Station.
- Topography: Topography in the project area consists of undulating dunal systems, alluvial/colluvial plains and low-lying coastal systems. The premises are located in the Ashburton River Delta, which is characterised as a coastal flood plain.
- Zoning: The Premises are located within the Ashburton North Strategic Industrial Area (ANSIA). The State Government created ANSIA estate under the *Planning and Development Act 2005* to cater for heavy industry for multiple proponents and related downstream opportunities (Department of State Development (DSD), 2010). ANSIA estate will include a multi-user port facility, land areas for proponents and infrastructure to accommodate LNG and other hydrocarbon-based processing and natural gas processing for Domgas supply (DSD 2010). In October-2011, the Shire of Ashburton adopted the ANSIA Structure Plan and submitted the plan to the Western Australian Planning Commission for endorsement. The structure plan was endorsed and subsequently Town Planning Scheme No. 7 was amended under the *Planning and Development Act 2005* to include the ANSIA Structure Plan.

Potential sensitive receptors in the vicinity of the WMS premises are:

- Groundwater: Groundwater in the project area is located at a depth of 2 m below ground level (mBGL). Groundwater quality is brackish to hypersaline, near neutral to slightly alkaline. Dissolved metal concentration in the groundwater exceeds the Australian and New Zealand Environment and Conservation Council (ANZECC) guidelines in many of the monitoring bores, which is commensurate with local groundwater salt concentrations and high groundwater salinity. The premises is not located in a Public Drinking Water Source Area



Surface water: The nearest surface water body is a minor creek is located at a distance of 1km from the premises. The creek is ephemeral only flowing after heavy rainfall, a few days per year.

- Existing residences and landowners: The closest receptors are the Wheatstone construction village and the WMS will be located adjacent to Fly camp (west) and Pioneer camp (approximately 35m to the south east). The Onslow solar salt project holds a lease approximately 6km north-east of the construction village. Major land tenure surrounding the project area is pastoral leasehold, with some conservation reserves, such as the Cape Range National Park. Extensive cattle and sheep grazing, salt mining, tourism and fishing occurs in the project area.

Proposed works

The Applicant proposes the following works for the upgrades at the WMS:

- In order to cater for a potential increase in hazardous wastes accepted at the WMS, Bechtel propose to design and construct additional impermeable bunds to store and manage the range of liquid wastes that are expected to be accepted at the WMS. The bunds have suitable access for vehicles unloading and loading wastes. The size of the bunds have been calculated based on the anticipated daily quantities of waste generated, storage times and the types of containers that may require housing within the bunds.
- The bunds will be constructed of impermeable material. Liquid wastes, including chemicals and oily waters, are proposed to be stored in segregated bunded areas within sealed containers. The bunded areas will be graded towards sumps which will collect any spills or leaks that may occur. The sumps will be inspected and if liquid waste is discovered, the liquid waste will be removed and disposed appropriately.
- The new bunded areas will comprise the following areas:
 - New Northern Bunded Area;
 - New Southern Bunded Area;
 - New Dangerous Goods Area incorporating modified sea containers; and
 - New Bunded Wash Area.

The Applicant also proposes the installation of a weighbridge at the WMS and the construction of a push wall within the WTS.

The proposed location of the weighbridge allows for the inspection of loads with sufficient queuing areas and distances to minimise traffic congestion whilst allowing for a straight approach.

Inside the WTS building small loads of waste are unloaded on to the tipping floor for consolidation. A push wall is utilised by the loader operator to provide resistance when handling materials in the loader bucket. It is proposed to upgrade the push wall to include the possible addition of concrete panelling for reinforcement and metal sheeting for concrete protection. This prevents the front end loader bucket from damaging the concrete during operations and extends the life of the push wall. The height of the push wall directly affects the capacity of waste that can be temporarily stored in that location at any one time, and therefore may also be upgraded.

The construction of the weighbridge and push wall does not trigger the requirements of section 53 of the Act so they will not be assessed as part of the licence amendment application.

Potential emissions

Potential emissions as a result of the works and operation of the works at the WMS are:

- General conditions Stormwater: Potential emissions may arise from the construction and operation of the WMS;
- Premises operation: Potential emissions may arise from the leakage of liquid waste from operation of the LWF;



- Dust: Potential emissions may arise from the construction and operation of the WMS;
- Odour: Potential emissions may arise from the operation of the WMS; and
- Noise: Potential emissions may arise from the construction and operation of the WMS.

Further details of emissions and regulatory controls for the WMS are detailed within section 4 of the Decision Table.

Occupation and planning approval

The Premises is currently occupied by the Veolia Environmental Services (Australia) Pty Ltd noting that part of the licence amendment is to transfer occupier.

The Premises are located within the Ashburton North Strategic Industrial Area (ANSIA). The State Government created ANSIA estate under the *Planning and Development Act 2005* to cater for heavy industry for multiple proponents and related downstream opportunities (Department of State Development (DSD), 2010). ANSIA estate will include a multi-user port facility, land areas for proponents and infrastructure to accommodate LNG and other hydrocarbon-based processing and natural gas processing for Domgas supply (DSD 2010). In October-2011, the Shire of Ashburton adopted the ANSIA Structure Plan and submitted the plan to the Western Australian Planning Commission for endorsement. The structure plan was endorsed and subsequently Town Planning Scheme No. 7 was amended under the *Planning and Development Act 2005* to include the ANSIA Structure Plan.

DER issued a Letter of Intent to Grant the Licence amendment to Bechtel on 19 October 2016 as at the time there was no Planning Approval and in accordance with DER's Guidance Statement *Land use planning* DER will not grant the licence until all necessary planning approvals for the proposal are in place. Bechtel have advised that Chevron Australia Pty Ltd (who have engaged Bechtel as the engineering, procurement and construction contractor to deliver the LNG Plant) is responsible for securing the necessary planning approvals for the WTS upgrade.. Planning Approval was granted by the Western Australian Planning Commission on 3 March 2017; Application number 103-1-2.

Approval of works

This Decision Document and the amended Licence specifies the assessment of the emission and discharges from the premises and associated regulatory controls.

DER has taken this opportunity to include global changes to the Licence and associated Decision Document. Where conditions have been amended or changed, they are justified in the Decision Document.

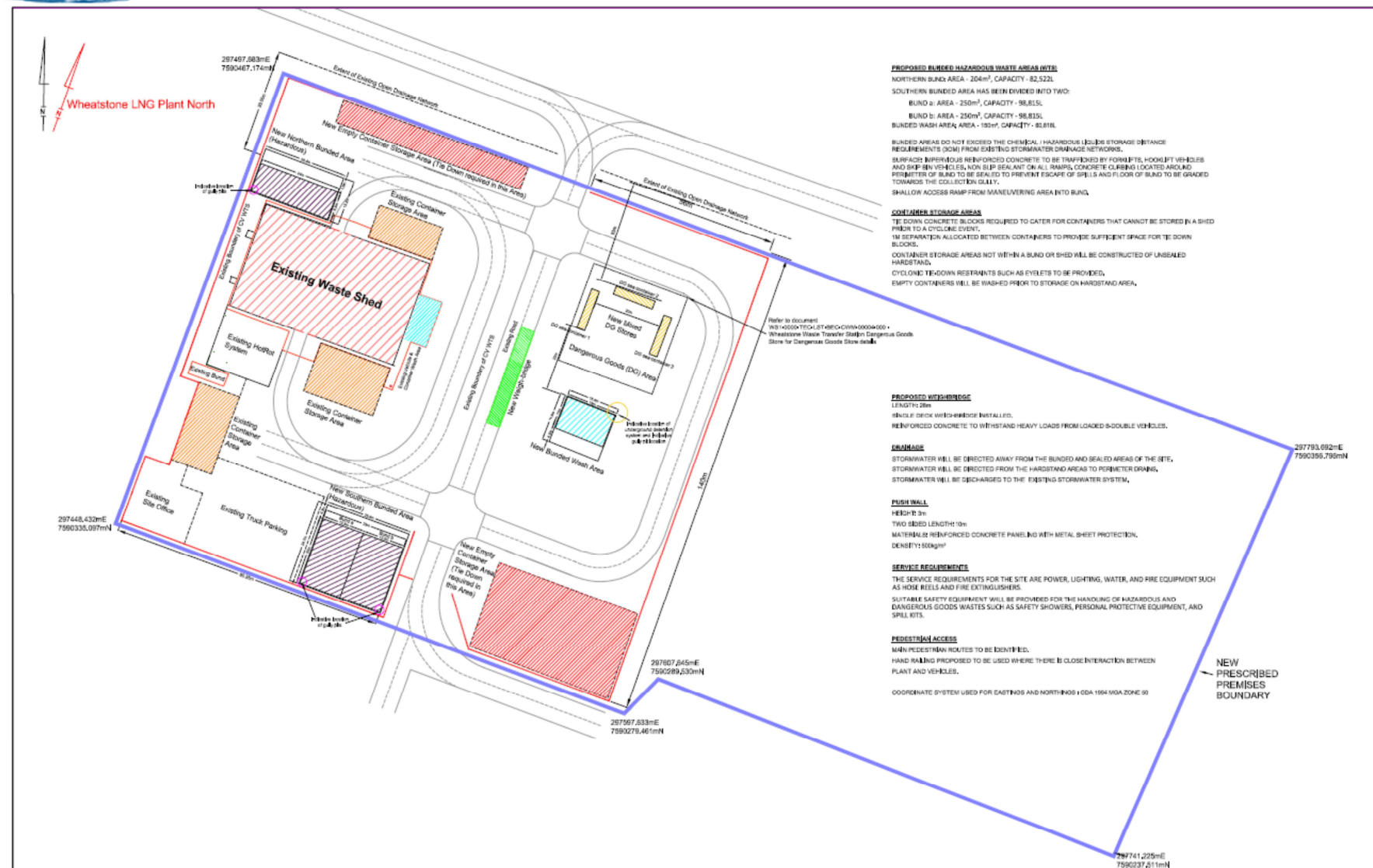


Figure 1 WMS overview

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 W = Works Approval L = Licence | Justification (including risk description & decision methodology where relevant) | Reference documents |
| Interpretation | L1.1.5 | <p>Operation</p> <p>Previous Condition 1.1.5 has been identified as redundant and removed from the licence as it related to general advice rather than an enforceable condition. The condition was worded as follows:</p> <p><i>Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:</i></p> <ul style="list-style-type: none"> (a) <i>pollution;</i> (b) <i>unreasonable emission;</i> (c) <i>discharge of waste in circumstances likely to cause pollution; or</i> (d) <i>being contrary to any written law</i> | General provisions of the <i>Environmental Protection Act 1986</i> |
| General conditions | L1.2.2 – L1.2.7 | <p>Construction</p> <p>Condition 1.2.2 and 1.2.3 included within the licence states the design and construction specifications for the works. Condition 1.2.3 allows for minor deviation from the design and construction specifications where appropriate.</p> <p>Condition 1.2.4 has been included in the licence as the applicant has not submitted any detailed construction technical drawings in which to assess the proposed additional hardstand bunded areas.</p> <p>Condition 1.2.5 and 1.2.6 require the submission of the construction compliance document and stipulates the information required within the compliance document and who can sign the document.</p> | <p>Application supporting documentation</p> <p>L8759/2013/1</p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i></p> |



DECISION TABLE

| Works Approval / Licence section | Condition number W = Works Approval L= Licence | Justification (including risk description & decision methodology where relevant) | Reference documents |
|----------------------------------|--|--|--|
| | L1.2.1 | <p><i>Emission:</i> Contaminated stormwater discharge from the Premises where stormwater is not appropriately managed, comes into contact with contaminants (e.g. liquid waste) or becomes loaded with sediment.</p> <p><i>Impact:</i> Stormwater and contaminants leaving the Premises and entering adjacent properties may potentially impact the health, welfare, convenience, comfort or amenity of those residences, or increase contaminant loads in surface water and/ or groundwater.</p> <p><i>Controls:</i> The site civil works have already been constructed and very minimal civil works are required to allow construction of the additional hardstand bunded storage areas. The additional storage areas will be bunded to divert stormwater away and the premises has existing stormwater management infrastructure.</p> <p><u>Risk assessment:</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Possible <i>Risk Rating:</i> Low</p> <p><u>Regulatory controls:</u> Current licence condition 1.2.1 is sufficient to continue to regulate stormwater within the premises even during the construction of the additional hardstand bunded storage areas. No further amendments to condition 1.2.1 are warranted during the amendment process.</p> <p><u>Residual risk:</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> <p>Operation <i>Emission:</i> Contaminated stormwater discharge from the Premises where stormwater is not appropriately managed, comes into contact with contaminants (e.g. liquid</p> | General provisions of the <i>Environmental Protection Act 1986</i> |



DECISION TABLE

| Works Approval / Licence section | Condition number W = Works Approval L= Licence | Justification (including risk description & decision methodology where relevant) | Reference documents |
|----------------------------------|--|--|--------------------------------------|
| | L1.2.1 | <p>waste) or becomes loaded with sediment.</p> <p><i>Impact:</i> Stormwater and contaminants leaving the Premises and entering adjacent properties may potentially impact the health, welfare, convenience, comfort or amenity of those residences, or increase contaminant loads in surface water and/ or groundwater.</p> <p><i>Controls:</i> Liquid wastes accepted at the premises will be stored in containers such as Intermediate Bulk Containers (IBCs) barrels/drums, sludge bins and isotainers which in addition are to be stored within a dedicated bunded hardstand pad. Additional storage areas will be bunded to divert stormwater away and the premises has existing stormwater management infrastructure. The additional bunded storage areas all have a dedicated sump to collect and retain any contaminated stormwater</p> <p><u>Risk assessment:</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> <p><u>Regulatory controls:</u> Current licence condition 1.2.1 is sufficient to continue to regulate stormwater within the premises even with the operation of the additional hardstand bunded storage areas. No further amendments to condition 1.2.1 are warranted during the amendment process.</p> <p><u>Residual risk:</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> | |
| Fugitive emissions | N/A | <p>Construction</p> <p><u>Emission Description</u></p> <p><i>Emission:</i> Dust may be generated by vehicle and machinery movement within the Premises when undertaking construction to line and then concrete the additional</p> | Application supporting documentation |



DECISION TABLE

| Works Approval / Licence section | Condition number W = Works Approval L= Licence | Justification (including risk description & decision methodology where relevant) | Reference documents |
|----------------------------------|--|--|---|
| | N/A | <p>hardstand areas.</p> <p><i>Impact:</i> Reduced local air quality from airborne particulates. The closest residence (Pioneer construction camp) is located approximately 35m south east of the Premises. The surrounding land is used for industrial, agriculture or mining.</p> <p><i>Controls:</i> Dust controls proposed by the Licensee in regards to the construction of the additional hardstand storage area include the use of a water cart and too wet the spoil prior to civil works</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u> Fugitive dust conditions have not been included in the licence in accordance with Departmental reform as published on DER's website under "<i>Administrative changes implemented within the Department of Environment Regulation</i>" www.der.wa.gov.au. It is considered that the provisions of Section 49 of the <i>Environmental Protection Act 1986</i> are sufficient to regulate dust emissions during operation of the composting facility.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> <p>Operation <u>Emission Description</u> <i>Emission:</i> Dust may be generated by vehicle and machinery movement within the</p> | <p>L8759/2013/1</p> <p>General provisions of the <i>Environmental Protection Act 1986</i></p> |



DECISION TABLE

| Works Approval / Licence section | Condition number W = Works Approval L = Licence | Justification (including risk description & decision methodology where relevant) | Reference documents |
|----------------------------------|---|---|--------------------------------------|
| | | <p>Premises when undertaking storage operations on the additional hardstand areas. <i>Impact:</i> Reduced local air quality from airborne particulates. The closest residence (Pioneer construction camp) is located approximately 35m south east of the Premises. The surrounding land is used for industrial, agriculture or mining. <i>Controls:</i> Dust controls proposed by the Licensee in regards to the operation of the additional hardstand storage area include the use of a water cart and store liquid waste within sealed containers.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u> Fugitive dust conditions have not been included in the licence in accordance with Departmental reform as published on DER's website under "<i>Administrative changes implemented within the Department of Environment Regulation</i>" www.der.wa.gov.au. It is considered that the provisions of Section 49 of the <i>Environmental Protection Act 1986</i> are sufficient to regulate dust emissions during operation of the facility.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> | |
| Odour | N/A | <p>Construction There will be no odour emissions during the construction of the additional hardstand bunded storage area at the WMS. No specified conditions relating to odour will be added to the Licence.</p> | Application supporting documentation |



DECISION TABLE

| Works Approval / Licence section | Condition number W = Works Approval L= Licence | Justification (including risk description & decision methodology where relevant) | Reference documents |
|----------------------------------|--|--|--|
| | N/A | <p>Operation</p> <p><u>Emission Description</u> <i>Emission:</i> Odour emissions from operations at the premises due to storage of additional liquid waste. <i>Impact:</i> Amenity impacts on nearest receptors. The closest receptors are residential construction camp (Pioneer Camp) approximately 35m to the south east. <i>Controls:</i> Waste oil will be stored in dedicated sealed tanks and WMS staff will monitor odour levels.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> Odour conditions will not be included in the licence in accordance with Departmental reform as published on DER's website under "Administrative changes implemented within the Department of Environment Regulation" www.der.wa.gov.au. It is considered that the provisions of Section 49 of the <i>Environmental Protection Act 1986</i> are sufficient to regulate odour emissions during operation of the WMS.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p> | L8759/2013/1 General provisions of the <i>Environmental Protection Act 1986</i> |
| Noise | N/A | <p>Construction</p> <p><u>Emission description:</u> <i>Emission:</i> Noise arising from construction activities, machinery movement and</p> | Application supporting documentation |



DECISION TABLE

| Works Approval / Licence section | Condition number W = Works Approval L= Licence | Justification (including risk description & decision methodology where relevant) | Reference documents |
|----------------------------------|--|---|---|
| | N/A | <p>earthworks.</p> <p><i>Impact:</i> Interference with the health, welfare, convenience, comfort or amenity of sensitive residential receptors. The closest receptor is the associated accommodation camp approximately 35m to the south east.</p> <p><i>Controls:</i> The works undertaken will not involve extensive civil works or heavy machinery. Traffic controls such as speed limits. The Proponent has a dedicated complaints system and complaints register.</p> <p><u>Risk assessment:</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Possible <i>Risk Rating:</i> Low</p> <p><u>Regulatory controls:</u> No specific noise management conditions are required to be included the works licence for the construction of the additional hardstand bunded storage areas. It is considered that the provisions of <i>Environmental Protection (Noise) Regulations 1997</i> will be sufficient to regulate noise emissions during construction.</p> <p><u>Residual risk:</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> possible <i>Risk Rating:</i> Low</p> <p>Operation <u>Emission description:</u> <i>Emission:</i> Noise arising from the operation of the WMS and associated vehicles such as tankers and trucks.</p> <p><i>Impact:</i> Interference with the health, welfare, convenience, comfort or amenity of sensitive residential receptors. The closest receptor is the associated accommodation</p> | <p>L8759/2013/1</p> <p><i>Environmental Protection (Noise) Regulations 1997</i></p> |



DECISION TABLE

| Works Approval / Licence section | Condition number W = Works Approval L= Licence | Justification (including risk description & decision methodology where relevant) | Reference documents |
|---|--|--|--|
| | | <p>camp approximately 35m to the south east.</p> <p><i>Controls:</i> Traffic speed is limited and controlled as the size of the premises limits mobility speed etc. The Proponent has a dedicated complaints system and complaints register already required by licence condition 3.1.3. Hours of operation are Monday to Friday 7am to 5pm.</p> <p><u>Risk assessment:</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Possible <i>Risk Rating:</i> Low</p> <p><u>Regulatory controls:</u> No specific noise management conditions will be included in the licence. It is considered that the provisions of <i>Environmental Protection (Noise) Regulations 1997</i> will be sufficient to regulate noise emissions during operation.</p> <p><u>Residual risk:</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Possible <i>Risk Rating:</i> Low</p> | |
| Monitoring of inputs and outputs | N/A L2.2.1 | <p>Construction Monitoring of inputs and outputs is not required for construction.</p> <p>Operation It was proposed that the unit m³ been removed from the licence but the Proponent has requested that Condition 2.2.1 Table 2.2.1 remain unchanged as it will cover the period prior to weighbridge installation and also during periods where the weighbridge is out of service. The condition can be amended at a later date if required.</p> | Application supporting documentation L8759/2013/1 |



DECISION TABLE

| Works Approval / Licence section | Condition number W = Works Approval L= Licence | Justification (including risk description & decision methodology where relevant) | Reference documents |
|----------------------------------|--|---|--|
| Information | L1.2.6 – 1.2.7 L3.3.1 | <p>Operation</p> <p>Condition 1.2.6 and 1.2.7 require the submission of the construction compliance document and stipulates the information required within the compliance document and who can sign the document.</p> <p>Condition 3.1.2 and 3.2.1 have been updated to reflect that the Annual Audit Compliance Report (AACR) submission is a separate from Annual Environmental Reporting requirements as per current DER licensing procedure. Definitions have also been updated to reflect the availability of the AACR template on DER's website.</p> <p>Part of Condition 3.3.1 Table 3.3.1 requiring notification for "<i>any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution</i>" has been removed as notification requirements for pollution events are stipulated in the <i>Environmental Protection Act 1986</i>.</p> | Application supporting documentation L8759/2013/1 |
| Licence Duration | N/A | The licence was amended on 29/4/2016 to extend the expiry date until 1/09/2024. There are no factors relating to the licence amendment that warrant a review of the expiry date. | N/A |

5 Advertisement and consultation table

| Date | Event | Comments received/Notes | How comments were taken into consideration |
|--|---|---|--|
| 16/08/2016 14/09/2016 13/10/2016 | Proponent sent a copy of draft instrument | <p><u>Comments received 25/08/2016:</u></p> <ul style="list-style-type: none"> • Change production and design capacity for Category 61 & 62 from 6,250 tonnes and 37, 876 tonnes to 10,000 tonnes and 40,000 tonnes respectively due to re-calculation of materials. • Condition 1.2.3 Table 1.2.1 clarification of construction methodology. • Condition 1.2.3 Table 1.2.1 changes requested for percentage drainage from 2% to 0.5%. • Condition 1.2.3 Table 1.2.1 changes requested for construction of Dangerous Goods Store based on new design. • Condition 1.2.6 queried in relation to requirements for suitable qualified engineer certification. • Condition 1.3.2 Table 1.3.1 Proponent provided specific waste codes and specification following request from Delegated Officer. • Condition 1.3.4 Table 1.3.2 requested change to core temperatures for composters. • Condition 1.3.4 Table 1.3.2 requested clarification for 6m separation distance between bins storing tyres. | <ul style="list-style-type: none"> • Delegated officer considers that the increased figures do not materially alter the premises risk. Production and design capacity changed as requested. • Delegated officer considers methodology acceptable. Table updated. • 2% changed to 0.5% drainage. • Changes made to licence based on the new design of the Dangerous Goods Store. • Delegated Officer considers that engineer certification is necessary to demonstrate that construction requirements are met. • Specific waste types and specifications updated. • Condition 1.3.4 Table 1.3.2 separation distances for tyre bins, bin sizes and composting requirements have not been amended as these requests were not part of the amendment application and have therefore not been assessed under this |



| Date | Event | Comments received/Notes | How comments were taken into consideration |
|------|-------|--|--|
| | | <ul style="list-style-type: none">Condition 1.3.4 Table 1.3.2 requested removal of size of bins.Condition 1.3.5 amend wording regarding fencing is only required around active waste facility.Condition 2.1.2 requested rewording of condition to require monthly monitoring 'at least 15 days apart within the next calendar month'.Condition 2.2.1 Table 2.2.1 request Units of m³ be kept where no weigh bridge is present until weighbridge is installed.Condition 2.3.1 Table 2.3.1 request Frequency wording Continuous be amended to state that continuous monitoring will be undertaken except during a shutdown/maintenance/upset conditions. <p><u>Comments received 22/09/2016</u></p> <ul style="list-style-type: none">Condition 1.3.2 Table 1.3.1 proponent provided a full list of controlled waste Specifications for each Waste Code.New Dangerous Goods Area map and technical drawing provided.New Premises Map and technical drawing provided by Proponent. | <p>amendment process. DER will consider any future application to amend these requirements.</p> <ul style="list-style-type: none">Wording updatedProponent's wording is more onerous than original wording. Original wording retained.Retained.Requirements have not been amended as this request was not part of the amendment application and has therefore not been assessed. DER will consider any future application to amend this requirement.Specification list updated.New Dangerous Goods Map and technical drawing included in the licence.New premises map and technical drawing included in licence. |



| Date | Event | Comments received/Notes | How comments were taken into consideration |
|------|-------|---|--|
| | | <p><u>Comments received 19/10/2016</u></p> <ul style="list-style-type: none">• Items 1, 2 and 3 of Table 1.2.1 state that the concrete construction will be coated with waterproof epoxy. Would it be possible to remove the requirement for a waterproof epoxy, given that the concrete will already be lined with preprufe membrane?• Table 1.3.1, row for putrescible waste: can you please add "domestic waste" as an additional item to the specifications for putrescible waste. | <ul style="list-style-type: none">• Table 1.2.1 wording changed as requested.• Word domestic added to Table as requested. |



6 Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management

Table 3: 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 |