



Licence

Environmental Protection Act 1986, Part V

Licensee: Alkina Holdings Pty Ltd

Licence: L9011/2016/1

Registered office: Level 1
10 Kings Park Road
WEST PERTH WA 6005

ACN: 124 202 491

Premises address: Mixed Waste Recycling Facility
243 Postans Road
HOPE VALLEY WA 6167
Being part Lot 569, on Plan 3475 within plan No. 3475 under certificate of title 289, Folio 158, within coordinates E49075.41 N238085.16, E49190.04 N 238080.92, E49250.24 N 238081.74, E49244.25 N237962.73, E49069.86 N237971.40 as depicted in Schedule 1.

Issue date: 14 July 2017

Commencement date: 17 July 2017

Expiry date: 15 November 2021

Prescribed premises category

Schedule 1 of the *Environmental Protection Regulations 1987*

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
62	Solid waste depot: premises on which waste is stored, or sorted, pending final disposal or re-use.	5 000 tonnes or more per year	150 000 tonnes per annual period

Conditions

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

Date signed: 14 July 2017

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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.

DWER's industry licensing role

The Department of Water and Environmental Regulation (DWER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DWER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DWER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DWER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DWER 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 Act. 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 Act 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 Act 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

Alkina Holdings Pty Ltd (Alkina) operates a mixed waste recycling facility (the Facility) at 243 Postans Road, Hope Valley (Being part Lot 569, on Plan 3475). Lot 569 is owned by Lunard Pty Ltd (Lunard) which, trading as Stoneridge Quarries WA, operates under Licence L6501/1994/11 (Categories 12, 13, and 61A of *Schedule 1 of the Environmental Protection Regulations 1987*). Alkina operates on an excised portion of Stoneridge's quarry site.

Alkina receives waste predominantly from its own related waste collection business (Instant Waste Management) as well as minor quantities from other commercial waste companies. The waste is sourced from commercial and industrial sources, construction and demolition sites including residential clean ups. No municipal solid waste (kerbside collection) will be accepted at the Facility.

Waste material is inspected with an excavator to examine waste for conformance with Alkina's standard operating procedures (no food waste, asbestos, liquid waste or other problematic waste materials). The excavator also removes large recoverable materials such as steel, timber, carpet and furniture.

A vibrating screen is used to screen and separate sand and rubble (bricks, concrete). Two radial stackers are used to stockpile sand and rubble material. Alkina provides Stoneridge with recovered sand and rubble for use at their premises for further processing activities covered by Licence L6501/1994/11. A magnet on the screen removes ferrous metals. A picking station is used to capture non-ferrous metals, wood plastics and cardboard. The reusable and recyclable material is stored separately and subsequently removed to downstream facilities.

The main potential emissions from the premises are asbestos fibres and dust becoming airborne from the screening and sorting of C&D waste. Noise is also considered a potential emission from the operation of the front end loader screening plant and associated tip trucks carting material to the Facility.

This Licence is for the operation of a new facility established under works approval W6009/2016/1. The Licences and Works Approvals issued for the Premises are:

Instrument log		
Instrument	Issued	Description
W6009/2016/1	3/02/2017	New application for construction of Premises
L9011/2016/1	14/07/2017	New Licence 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:

'acceptance criteria' has the meaning defined in Landfill Definitions;

'ACM' has the meaning defined in the document Department of Health 2009, *Guidelines for Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia*, Government of Western Australia;

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

'Anniversary Date' means 1 January of each year

'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 the inclusive period from 1 January until 31 December;

'asbestos' means the asbestiform variety of mineral silicates belonging to the serpentine or amphibole groups of rock-forming minerals and includes actinolite, amosite, anthophyllite, chrysotile, crocidolite, tremolite and any mixture containing 2 or more of those;

'Asbestos Guidelines' means the document published by the Department titled "Guidelines for managing asbestos at construction and demolition waste recycling facilities"

'averaging period' means the time over which a limit is measured or a monitoring result is obtained;

'CEO' means Chief Executive Officer of the Department of Water and Environmental Regulation;

'CEO' for the purpose of correspondence means;

Chief Executive Officer
Department Div.3 Pt.V EP Act
Locked Bag 33
CLOISTERS SQUARE WA 6850
Email: info-der@dwer.wa.gov.au

'classified load' means the classification of waste loads during acceptance and post acceptance based on the risk of waste containing Asbestos or ACM and through visual inspection. Classification of wastes loads shall be undertaken in accordance with the provisions outlined in Section 3.3 and 3.4 of the Department's Asbestos Guidelines (Attachment 1 & 2);

'Commercial and Industrial waste' has the meaning defined in the Landfill Definitions;



‘Construction and Demolition waste’ has the meaning defined in the Landfill Definitions;

‘Department’ means the department established under s.35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Part V of the *Environmental Protection Act 1986*;

‘hardstand’ means a surface with a permeability of 10^{-9} metres/second or less;

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

‘Landfill Definitions’ means the document titled “Landfill Waste Classification and Waste Definitions 1996” published by the Chief Executive Officer of the Department as amended from time to time;

‘Licence’ means this Licence numbered L9011/2016/1 and issued under the Act;

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

‘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 Waste’ has the meaning defined in Landfill Definitions;

‘quarantined storage area or container’ means a hardstand storage area or sealed-bottom container that is separate and isolated from authorised waste disposal areas and is capable of containing all non-conforming waste and its constituents, these areas must be clearly marked and their access restricted to authorised personnel;

‘Schedule 1’ means Schedule 1 of this Licence unless otherwise stated;

‘Schedule 2’ means Schedule 2 of this Licence unless otherwise stated;

‘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 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 Premises operation

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

- (a) it is of a type listed in Table 1.2.1;
- (b) the quantity accepted is below any quantity limit listed in Table 1.2.1; and
- (c) it meets any specification listed in Table 1.2.1.



Table 1.2.1: Waste acceptance		
Waste	Quantity Limit	Specification
Clean fill	150,000 tonnes per annual period accepted under category 62	None
Inert Waste Type 1		<ul style="list-style-type: none">Residential, Construction and Demolition, Commercial and Industrial waste only.Waste containing visible asbestos or ACM shall not be accepted
Putrescible Waste		<ul style="list-style-type: none">Green waste, timber, pallets and cardboard only.Excludes putrescible waste from municipal collections.

- 1.2.2 The Licensee shall ensure that where waste does not meet the waste acceptance criteria set out in condition 1.2.1 it is removed from the Premises by the delivery vehicle or, where that is not possible, stored in a quarantined storage area or container and removed to an appropriately authorised facility as soon as practicable.
- 1.2.3 The Licensee shall ensure that any waste that does not conform to the waste acceptance criteria in Table 1.2.1 due to asbestos content, is covered or bagged and kept within a clearly identified, labelled, segregated and secure container prior to being removed off site to an appropriate authorised facility within 48 hours.
- 1.2.4 The Licensee must advise all source material providers that asbestos or potentially asbestos contaminated material is not accepted at the Premises.
- 1.2.5 The Licensee must include a 'no asbestos' clause in all contracts with material sources.
- 1.2.6 The Licensee must maintain a clearly visible sign saying 'No Asbestos' at the entry to the Premises.
- 1.2.7 The Licensee must only accept waste onto the Premises for storage, sorting or crushing that is Inert Waste Type 1 with a signed declaration from the supplier of the source material with each delivery that warrants that the load does not contain any asbestos or ACM.
- 1.2.8 The Licensee must visually inspect all loads of material when they arrive at the Premises prior to unloading and during unloading to ensure that the material does not contain visible asbestos or ACM (classified load).
- 1.2.9 Where the inspection confirms that material does contain asbestos or ACM, the Licensee must:
- reject the waste material for acceptance;
 - maintain accurate records of all rejected loads on the Premises and the documentation must be made available to DWER officers upon request; and
 - record the details of the material source, material carrier, registration number of the vehicle and date of rejection.
- 1.2.10 The Licensee must maintain high-risk Classified Loads in a damp state using appropriate dust suppression measures.
- 1.2.11 The Licensee must ensure that suspected high-risk classified loads are isolated, kept damp and appropriately contained, and the Licensee must comply with the *Code of Practice for the Safe Removal of Asbestos 2nd Edition [NOHSC:2002(2005)]* and the *Health (Asbestos) Regulations 1992*.



- 1.2.12 The Licensee must ensure that suspected high-risk classified loads are managed in accordance with the high-risk procedure as outlined in section 3.4 of the Asbestos Guidelines.
- 1.2.13 The Licensee must, as a minimum maintain records of all accepted load inspections and of any accepted loads which have been determined as high-risk Classified Loads.
- 1.2.14 The Licensee must continue to visually inspect material on the Premises at all stages of the storage and sorting process. Suspect asbestos identified at any stage of the process must be handled in accordance with Conditions 1.2.11 of this Licence.
- 1.2.15 The Licensee shall ensure that wastes accepted onto the Premises are only subjected to the processes set out in Table 1.2.2 and in accordance with any process limits described in that Table.

Table 1.2.2: Waste processing		
Waste type	Process	Process limits
Clean Fill	Acceptance and storage prior to use in land remediation	<ul style="list-style-type: none">• Stockpiles must not exceed 7m in height from the base of the stockpile• All loads to be wet down prior to unloading
Inert Waste Type 1	Acceptance and storage prior to screening and removal offsite	<ul style="list-style-type: none">• Stockpiles must not exceed 7m in height from the base of the stockpile• All loads to be wet down prior to unloading• No crushing of waste shall be undertaken.
Putrescible Waste	Acceptance and storage prior to removal offsite	<ul style="list-style-type: none">• No waste material to be landfilled (buried) on site• Green waste shall be stored in dedicated storage areas. Stockpile dimensions shall be maintained to a height of no greater than 3 metres and to a width no greater than 5 metres. A minimum 3 metre separation distance between the base of the storage areas shall be maintained.• Green waste shall not be processed or shredded on the premises.• A 5 metre firebreak must be maintained around the greenwaste storage area at all times.• Green waste shall be removed within 7 days of being received on-site.

- 1.2.16 The Licensee shall take all reasonable and practical measures to ensure that no windblown waste escapes from the Premises and that windblown waste is collected on at least a weekly basis and appropriately contained.
- 1.2.17 The Licensee shall ensure no waste is burnt on the premises.



1.2.18 The Licensee shall implement control measures to prevent infestations of pests, flies and vermin at the Premises.

1.2.19 The Licensee shall ensure that the infrastructure or equipment specified in table 1.2.3 is installed and operated in accordance with the specifications in that table.

Table 1.2.3.: Dust management infrastructure and equipment specifications	
Infrastructure and equipment	Specification
(a) Screening plants	(i) Operating water sprays must be fitted and maintained at the intake, discharge and head of the conveyor achieve a minimum discharge rate of 30 L per minute.
(b) Stackers	(i) Operating water sprays must be fitted and maintained.
(c) Stockpiles	(i) Must be regularly sprayed with water.
(d) Water storage tank	(i) A minimum water storage capacity of 20kL must be maintained.
(e) Water truck	(i) A minimum capacity 10 kL water truck must be available to suppress dust at all times.

1.2.20 The Licensee shall only operate the Premises between 0600 to 1700 from Monday to Saturday with no machinery operating before 0700 hours.

1.2.21 The Licensee shall complete a Noise Verification Study within six months of the commencement date of this Licence. The noise verification study shall:

- (a) be representative of 'worst case' meteorological and operating conditions for the purposes of noise generation;
- (b) demonstrate compliance with the *Environmental Protection (Noise) Regulations 1997*; and
- (c) outline any engineering controls, site layout variations or other measures which were undertaken to achieve compliance with the *Environmental Protection (Noise) Regulations 1997*.



2 Monitoring

2.1 Monitoring of inputs and outputs

2.1.1 The Licensee shall undertake the monitoring in Table 2.1.1 according to the specifications in that table.

Table 2.1.1: Monitoring of inputs and outputs				
Input/Output	Parameter	Units	Averaging period	Frequency
Waste inputs	Clean fill, Inert Waste Type 1, Putrescible Waste (green waste, timber & cardboard)	m ³	N/A	Each load arriving at premises
Waste outputs	Waste type as defined in the Landfill Definitions	m ³		Each load leaving or rejected from the Premises

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 and any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect the condition of the land or waters.
- 3.1.2 The Licensee must submit to the CEO within 90 days after the Anniversary Date, an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the Conditions in this Licence for the 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 complaints.

3.2 Notification

- 3.2.1 The Licensee shall ensure that the parameters listed in Table 3.2.1 are notified to the CEO in accordance with the notification requirements of the table.



Table 3.2.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
1.2.21	Noise Verification Study	Within 30 days of completion of the Noise Verification Study	Not specified
1.2.13	Records of load inspections; records of classified loads	Within 14 days of CEO request	Not specified
2.1.1	Records of Inputs and Outputs	Within 14 days of CEO request	Not specified
3.1.3	Details of complaints	Within 14 days of CEO request	Not specified
-	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

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 2



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The green line depicts the Premises boundary. Points 5 and 6 (stockpiled rubble and sand) will be located on Stoneridge's Licence – L6501/1994/12.



LEGEND;

- 1) 6m x 9m Transportable - Office and meeting room. Chemical toilet. Workshop/store (40ft Seacontainer)
- 2) Self Bunded Fuel Store, 20,000L
- 3) Staff Parking
- 4) Water store, 20,000L
- 5) Rubble delivered via radial stacker
- 6) Sand delivered via radial stacker



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.

Licence: L9011/2016/1
Form: N1

Licensee: Alkina Holdings Pty Ltd
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 Alkina Holdings Pty Ltd	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Alkina Holdings Pty Ltd

Licence: L9011/2016/1

Registered office: Level 1
10 Kings Park Road
WEST PERTH WA 6005

ACN: 124 202 491

Premises address: Mixed Waste Recycling Facility
243 Postans Road
HOPE VALLEY WA 6167
Being part Lot 569, on Plan 3475 within plan No. 3475 under certificate of title 289, Folio 158, within coordinates E49075.41 N238085.16, E49190.04 N 238080.92, E49250.24 N 238081.74, E49244.25 N237962.73, E49069.86 N237971.40

Issue date: 14 July 2017

Commencement date: 17 July 2017

Expiry date: 15 November 2021

Decision

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

Decision Document prepared by: Chris Slavin
Licensing Officer

Decision Document authorised by: Steve Checker
Delegated Officer



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1 Purpose of this Document

This decision document explains how DWER has assessed and determined the application and provides a record of DWER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DWER'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 checked="" type="checkbox"/> Licence amendment <input type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	Category number(s)	Assessed design capacity
	62	150 000 tonnes per annual period
Application verified	Date: 10/11/2016	
Application fee paid	Date: 21/11/2016	
Works Approval has been complied with	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Compliance Certificate received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input 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 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 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"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <i>Environmental Protection (Kwinana) (Atmospheric Wastes) Policy 1999 [Area B]</i>		
Is the Premises subject to any EPP requirements? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <i>Environmental Protection (Kwinana) (Atmospheric Wastes) Regulations 1992</i>		



3 Executive summary of proposal and assessment

Alkina Holdings Pty Ltd (Alkina) operates a mixed waste recycling facility (the Facility) at 243 Postans Road, Hope Valley (Being part Lot 569, on Plan 3475). Lot 569 is owned by Lunard Pty Ltd (Lunard) which, trading as Stoneridge Quarries WA, operates under Licence L6501/1994/11 (Categories 12, 13, and 61A of *Schedule 1 of the Environmental Protection Regulations 1987*). Alkina operates on an excised portion of Stoneridge's quarry site. The Facility was constructed under Works Approval W6009/2016/1. DWER received the compliance certificate on 27 June 2017 outlining that the works were constructed in accordance with the Works Approval.

Alkina receives waste predominantly from its own related waste collection business (Instant Waste Management) as well as minor quantities from other commercial waste companies. The waste is sourced from commercial and industrial sources, construction and demolition sites including residential clean ups. No municipal solid waste (kerbside collection) will be accepted at the Facility.

Alkina accepts the following waste streams for further sorting and screening:

- Construction and demolition (C&D) waste (100,000 tonnes per year) which will include:
 - Concrete, blocks, bricks and rubble;
 - Sand;
 - Scrap timber; and
 - Window and door frames.
- Commercial and industrial (C&I) waste (40,000 tonnes per year) which will include:
 - Light manufacturing waste;
 - Metal off-cuts and sections;
 - Empty product containers (paint cans, silicone tubes etc.); and
 - Waste from transport, and freight services, retail shops, offices and showrooms.
- Residential Waste (10,000 tonnes per year) which will include
 - General house hold items;
 - Carpets, furniture and underlay;
 - Plastics;
 - E-waste; and
 - Greenwaste.

Waste material is inspected with an excavator to examine waste for conformance with Alkina's standard operating procedures (no food waste, asbestos, liquid waste or other problematic waste materials). The excavator also remove large recoverable materials such as steel, timber, carpet and furniture. A vibrating screen is used to screen and separate sand and rubble (bricks, concrete). Two radial stackers are used to stockpile sand and rubble material. Alkina provides Stoneridge with recovered sand and rubble for use at their premises for further processing activities covered by Licence L6501/1994/11. A magnet on the screen removes ferrous metals. A picking station is used to capture non-ferrous metals, wood plastics and cardboard. The reusable and recyclable material is stored separately and subsequently removed to downstream facilities.

Legislative context

The Premises is located within the *Environmental Protection (Kwinana) (Atmospheric Wastes) Policy 1999* (Kwinana EPP) Area B and the *Environmental Protection (Kwinana) (Atmospheric Wastes) Regulations 1992* (Kwinana EPP Regulations) are applicable to the operations of the Premises. The Kwinana EPP and Kwinana EPP Regulations provide ambient air quality standards and ambient air quality limits for Sulphur dioxide and particulates.

The Kwinana EPP defines three areas (Areas A, B and C) where:

- Area A is the area of land on which heavy industry is located;



- Area B is outside Area A and is zoned for industrial purposes from time to time under a Metropolitan Region Scheme or a town planning scheme;
- Area C is beyond Areas A and B, predominantly rural and residential.

The Premises falls within Area B. Schedule 2 of the Kwinana EPP Regulations provide emissions standards and limits identified in Table 1.

Table 1: Ambient air quality standards and ambient air quality limits – total suspended particulates Table.

Item	Area	Standard ($\mu\text{g}/\text{m}^3$)	Limit ($\mu\text{g}/\text{m}^3$)	Averaging period
1	Policy Area	-	1,000	15 minutes
2	Area B	150	260	24 hours

The Kwinana EPP defines 'standard' as the *concentration of an atmospheric waste which it is not desirable to exceed* and 'limit' as the *concentration of an atmospheric waste which is not to be exceeded*.

This assessment has had regard to the Kwinana EPP and Kwinana EPP Regulations in assessing the risk of particulate emissions from the Premises.

Other relevant approvals

Planning Approval for operations at the Premises was granted by the City of Kwinana for the period 15 November 2016 to 15 November 2021. The Planning Approval is subject to a number of conditions including:

- Matters concerning the *Hope Valley Wattleup Redevelopment Act 2000*;
- Stormwater *'to be contained and disposed of on site'*;
- Dust control measures that include:
 - *'all hardstand and trafficable areas ... constructed and treated with dust suppression surface solution for the duration of the development OR constructed with bitumen/ recycled bitumen in accordance with the City of Kwinana's 'Non trafficable area' specification'*;
 - Treat the area for dust suppression in accordance with the approved Dust Management Plan and when directed by the City of Kwinana.
 - *'no dust or liquid aerosols permitted to leave the boundaries of the occupants' tenancy'*.
- Noise management that include:
 - *'activities or vehicle movements causing noise and/ or inconvenience to neighbours must not be carried out after 6:00pm or before 7:00am, Monday to Saturday, and not at all on Sunday or public holidays unless with prior consent from the City of Kwinana'*; and
 - All equipment used on the site to be fitted with broad band reversing alarms if alarms are required by occupational health and safety regulations.
- Waste and hazardous material control:
 - Hazardous materials, inclusive of asbestos shall not be received on site; and
 - Processed waste materials inclusive of green waste shall not be stored on site for greater than 48 hours unless otherwise approved by the City of Kwinana.

The Delegated Officer has considered the application and an assessment of the emission risks posed by operations at the Premises has been undertaken. The potential emission risks from the Premises are from asbestos fibres potentially being present in waste accepted, dust and noise. The acceptance, screening and sorting of waste and the operation of the mechanical equipment are considered to be the main potential emission sources. Further details of emissions and regulatory controls for the facility are detailed within section 4 of the Decision Table.



4 Decision table

The overarching legislative framework of this assessment is the *Environmental Protection Act 1986* (EP Act) and the *Environmental Protection Regulations 1987* (EP Regulations).

DWER Guidance Statements which inform the assessment in accordance with the legislation include:

- Guidance Statement: Regulatory Principles (July 2015)
- Guidance Statement: Setting Conditions (October 2015)
- Guidance Statement: Land Use Planning (October 2015)
- Guidance Statement: Licence Duration (November 2015)
- Guidance Statement: Decision Making (November 2016)
- Guidance Statement: Risk Assessment (November 2016)
- Guidance Statement: Environmental Siting (November 2016)

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
Premises operation		Stormwater Risk Management <u>Emission Description</u> Emission: Stormwater contaminated with leachate generated from the storage of waste. Impact: Contaminated stormwater may cause contamination of surrounding land and bioaccumulation of contaminants in the surrounding ecosystems. The Premises is located within the Perth Groundwater area (<i>Rights in Water Irrigation Act 1914</i> groundwater area) Depth to groundwater at the premises is between 10 - 13mbgl. Stoneridge and Alkina will abstract groundwater from a bore located on Stoneridge's premises for use as dust suppression. The nearest surface water body is the Indian Ocean 2km west of the premises. The premises is also located within the State Environmental (Cockburn Sound) Policy area 2015. Controls: Stormwater is managed onsite by diverting surface water flows from south to north where stormwater is captured in a stormwater basin running along the northern boundary of the site where it is left to infiltrate.	<i>Environmental Protection (Unauthorised Discharges) Regulations 2004.</i>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p><u>Risk Assessment</u> Consequence: Slight Likelihood: Unlikely Risk Rating: Low</p> <p><u>Regulatory Controls</u> As the majority of waste accepted at the premises will be inert there is limited potential for stormwater to become contaminated. The Delegated Officer considers that discharges from the premises can be regulated under the provisions of the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p> <p><u>Residual Risk</u> Consequence: Slight Likelihood: Unlikely Risk Rating: Low</p> <p>Asbestos Risk Management <u>Emission Description</u> <i>Emission:</i> Asbestos fibres from non-conforming waste brought onto the premises and from screening activities on site. <i>Impact:</i> Asbestos fibres can have severe health impacts including asbestosis and mesothelioma. The nearest sensitive receptor is a local residence located 325m northeast of the premises. <i>Controls:</i> An asbestos management plan has been submitted with the works approval supporting documentation that complies with DWER's asbestos guidelines. Controls include staff training to identify asbestos, inspecting all loads prior to and during unloading for suspect material, isolating and segregating suspected asbestos, keeping stockpiles and unloading areas damp, monitoring and product testing. Asbestos / ACM</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>loads are removed from the premises within 48 hours.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Severe <i>Likelihood:</i> Rare <i>Risk Rating:</i> High</p> <p><u>Regulatory Controls</u> Given the high risk rating for asbestos, a number of conditions have been specified in this licence that are in line with the DWER's Asbestos Guidelines and the proponents commitments detailed in Asbestos Management Plan for Waste Sorting, Processing and Transfer Operation, Alkina Holdings Pty Ltd, August 2016'.</p> <p>Condition 1.2.1 specifies that waste containing visible asbestos or asbestos containing material shall not be accepted.</p> <p>Condition 1.2.3 specifies that identification and segregation of any identified asbestos content is required.</p> <p>Condition 1.2.4 specifies that the Licensee must advise all source material providers that asbestos or potentially asbestos contaminated material is not accepted at the Premises.</p> <p>Condition 1.2.5 the Licensee must include a 'no asbestos' clause in all contracts with material sources.</p> <p>Condition 1.2.6 The Licensee must maintain a clearly visible sign saying 'no asbestos' at the entry to the Premises.</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>Condition 1.2.7 The Licensee must only accept Inert Waste Type 1 with a signed declaration from the supplier that warrants that the load does not contain any asbestos or ACM.</p> <p>Condition 1.2.8 The Licensee must visually inspect all loads prior to unloading and during unloading to ensure that the material does not contain visible asbestos or ACM.</p> <p>Condition 1.2.9 specifies what actions are to occur when asbestos or ACM is confirmed in accordance with the DWER's Asbestos Guidelines.</p> <p>Condition 1.2.10 Specifies that the Licensee must maintain high risk Classified Loads in a damp state using appropriate dust suppression measures.</p> <p>Condition 1.2.11 specifies that the Licensee must ensure that suspected high risk loads are isolated, kept damp and appropriately contained and the Licensee must comply with the Code of Practice for the Safe Removal of Asbestos 2nd Edition and the <i>Health (Asbestos) Regulations 1992</i>.</p> <p>Condition 1.2.12 specifies that the Licensee must ensure that suspected high risk loads are managed in accordance with the DWER Asbestos Guidelines.</p> <p>Condition 1.2.13 specifies that the Licensee must maintain records of all accepted loads which have been determined as 'high risk'.</p> <p>Condition 1.2.14 specifies that the Licensee must continue to visually inspect material on the Premises at all storage, sorting and processing states to identify asbestos.</p> <p><u>Residual Risk</u> <i>Consequence: Severe</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><i>Likelihood: Rare</i> <i>Risk Rating: High</i></p> <p>Hydrocarbon Risk Management <u>Emission Description</u> <i>Emission:</i> Hydrocarbon spill from diesel, oils and grease storage on site. <i>Impact:</i> Hydrocarbons may contaminate local soils and enter groundwater. Contamination of groundwater may impact users of groundwater or potentially migrate to Cockburn Sound where hydrocarbon could cause aquatic organism death or degradation of the marine ecosystems. The Premises is located within the Perth Groundwater area (<i>Rights in Water Irrigation Act 1914</i> groundwater area) Depth to groundwater at the premises is between 10 - 13mbgl. Stoneridge and Alkina will abstract groundwater from a bore located on Stoneridge's premises for use as dust suppression. The nearest surface water body is the Indian Ocean 2km west of the premises. The premises is also located within the State Environmental (Cockburn Sound) Policy area 2015. <i>Controls:</i> Alkina have stated that diesel will be stored in a 20,000 litre hydrocarbon storage tank within a bunded compound present on the premises, which will be used in the Premises operation. Small quantities (5 - 25L) of oil and grease will be stored in sea containers for maintenance of mobile equipment.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Medium</p> <p><u>Regulatory Controls</u> The Delegated Officer considers that discharges from the premises can be regulated under the provisions of the <i>Environmental Protection (Unauthorised Discharges)</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><i>Regulations 2004.</i></p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Medium</p>	
Fugitive emissions	L1.2.15 L1.2.19	<p>Operation</p> <p><u>Emission Description</u> <i>Emission:</i> Fugitive dust emissions during construction and installation of infrastructure and operation of earthworks machinery. Dust emission may include particulate matter with an aerodynamic diameter of less or equal to 10µm (PM₁₀) entering the atmosphere. <i>Impact:</i> Dust can negatively impact the health, welfare and amenity of those on nearby properties. The nearest sensitive receptor is a local residence located 325m northeast of the premises. Stoneridge Quarry operates adjacently south of the premises, conducting similar activities. A container storage yard 100m north of the premises. Other premises within the immediate area also conduct industrial activities. <i>Controls:</i> Alkina propose to use a water tank onsite during construction (as well as operation) to suppress any dust arising from construction activities. <i>Controls:</i> Alkina have submitted a Dust Management Plan (DMP) as part of the application. The DMP outlines the following to mitigate potential fugitive emissions:</p> <ul style="list-style-type: none"> • All internal roads will consist of compacted limestone or crushed rubble surface; • A water tanker will be used onsite to suppress dust on roads and stockpiles; • Fixed sprinklers will be used onsite to suppress dust on roads and stockpiles; and • Screens will be fitted with dust suppression systems. <p><u>Risk Assessment</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Possible</p>	<p><i>Environmental Protection (Kwinana) (Atmospheric Wastes) Policy 1999</i></p> <p><i>Environmental Protection (Kwinana) (Atmospheric Wastes) Regulations 1992</i></p> <p>S.49 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><i>Risk Rating:</i> Medium</p> <p><u>Regulatory Controls</u> Condition 1.2.15 has been added to the Licence to ensure stockpiles do not exceed 7m in height causing dust lift off and to ensure waste loads are wetted down prior to unloading.</p> <p>Condition 1.2.19 has been added to the licence to ensure water sprays are operating and maintained on the screens and stackers. A water cart with 10k/L capacity is also required to available to supress dust at the Premises at all times.</p> <p>Alkina are also required to comply with the Kwinana EPP and the Kwinana EPP Regulations, which imposes air quality limits for particulates.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Medium</p>	
Odour	L1.2.15	<p><u>Emission Description</u> <i>Emission:</i> Odour from receipt and storage of putrescible wastes (green wastes, timber, pallets and cardboard), and potential temporary storage of non-conforming waste types. <i>Impact:</i> Odour can negatively impact on the welfare and amenity of those on nearby properties. The nearest sensitive receptor is a local residence located 325m northeast of the Premises. <i>Controls:</i> Greenwaste is stored for a minimal time on site and no composting or mulching is taking place. Alkina have committed to not accept any other putrescible waste types.</p>	S.49 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
		<p><u>Risk Assessment</u> <i>Consequence:</i> Slight <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u> L1.2.15 has been added to the Licence to which requires greenwaste to be removed from the Premises within 7 days of being received.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Slight <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p>	
Noise		<p><u>Emission Description</u> <i>Emission:</i> Noise emissions from the handling of waste, screening activities, heavy machinery operation and vehicle movements on site. Activities on site may contribute to accumulative impacts given that several similar operations occur on the same lot. <i>Impact:</i> Noise can cause a nuisance for people and negatively impact on the welfare and amenity of those on nearby properties. The nearest sensitive receptor is a local residence located 325m northeast of the premises. Stoneridge Quarry operates adjacently south of the premises, conducting similar activities. A container storage yard 100m north of the premises. Other premises within the immediate area also conduct industrial activities. <i>Controls:</i> Alkina has proposed the following noise controls:</p> <ul style="list-style-type: none"> • Operations Monday to Saturday, 0600 to 1700 hours with no machinery operating before 0700 hours. • Vehicles will be installed with 'croaker/low frequency' reversing beacons is noise becomes an issue with regular reversing beacons; • Screening operations will occur near the existing 20m high quarry wall; and 	<i>Environmental Protection (Noise Regulations 1997.</i>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<ul style="list-style-type: none"> Noise monitors will be installed to provide information on the level of noise actually being generated if noise complaints are received at the Premises; <p><u>Risk Assessment</u> Consequence: Moderate Likelihood: Possible Risk Rating: Medium</p> <p><u>Regulatory Controls</u> Condition 1.2.20 has been added to the Licence to restrict the operating hours of the Premises, which is consistent with conditions imposed by the Planning approved granted by the City of Kwinana.</p> <p>Condition 1.2.21 has been added to the Licence for Alkina to verify the noise emissions from the Premises during operation. The Delegated Officer considers the condition necessary due to the close proximity of sensitive residential receptors to ensure noise from the premises complies with the <i>Environmental Protection (Noise Regulations 1997)</i></p> <p><u>Residual Risk</u> Consequence: Moderate Likelihood: Possible Risk Rating: Medium</p>	
Monitoring of inputs and outputs	L2.2.1	Condition 2.1.1 has been added to the Licence for the licensee to monitor inputs and outputs. This information is required to determine compliance with condition 1.2.1 throughput limits and validate annual fee submissions.	
Information	L3.1.1 – 3.1.3 L3.2.1 L3.3.1	Condition 3.1.1 sets out the requirements for any records that are required under this licence, such as ensuring they are legible and retained for 6 years which assists DWER is regulating the conditions of this licence.	



DECISION TABLE			
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		<p>Condition 3.1.2 requires the occupier to undertake an audit of their operations against the conditions of the licence and to report on this compliance in an Annual Audit Compliance Report (AACR). This condition assists DWER in regulating the occupier's compliance with licence conditions and allows and opportunity for DWER to review the occupier's environmental performance.</p> <p>Condition 3.1.3 requires a complaints management system to be implemented where the occupier can internally address any issues that arise from premises operations. This condition is required as per the risk assessments conducted above for nuisance emissions. DWER will review these complaints as reported in the Annual Environmental Report (AER) and will consider whether a reassessment of any regulatory controls is required to address any complaints.</p> <p>Condition 3.2.1 requires the licensee to notify the CEO if there is a breach of any licence limit (i.e. processing limits) and to provide relevant records on request. The notifications required under this condition give DWER appropriate notice of any potential environmental impacts at the premises and to enable records to be obtained for auditing and investigative purposes.</p>	
Licence Duration	N/A	Alkina submitted a planning approval for the Facility to the City of Kwinana of 7 October 2016. Planning approval was granted by the City of Kwinana on 15 November 2016 for a period of 5 years. In accordance with DWER's <i>Guidance Statement: Licence Duration (November 2015)</i> DWER will issue the Licence for a five year period, consistent with the City of Kwinana's approval.	<i>DWER Guidance Statement: Licence Duration (November 2015)</i>



Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
28/11/2016	Application advertised in West Australian	No comments received	N/A
28/11/2016	Application referred to City of Kwinana	No comments received	N/A
7/07/2017	Proponent sent a copy of draft instrument	Comments received regarding variations between stockpile heights in Licence and Decision Document	Corrections made



6 Risk Assessment

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

Table 1: Emissions Risk Matrix

Likelihood	Consequence				
	Slight	Minor	Moderate	Major	Severe
Almost Certain	Medium	High	High	Extreme	Extreme
Likely	Medium	Medium	High	High	Extreme
Possible	Low	Medium	Medium	High	Extreme
Unlikely	Low	Medium	Medium	Medium	High
Rare	Low	Low	Medium	Medium	High