



Licence Number	L7827/2001/5
Licence Holder	Abbotts Liquid Salvage Pty Ltd
Registered business address	8 Princess Royal Drive ALBANY WA 6330
Date of amendment	Thursday, 24 November 2016
Prescribed Premises	Category 61 – Liquid waste facility Category 67A – Compost manufacturing and soil blending
Premises	Abbotts Liquid Salvage 35494 Albany Highway DROME WA 6330 Being Part of Lot 4638 on Plan 157018 within co-ordinates (MGA Zone 50) -34.9376S, 117.7778E; -34.9375S, 117.7827E; -34.935S, 117.7827E; -34.9351S, 117.7810E; -34.9346S, 117.7770E; -34.9339S, 117.7806E.

Amendment

The Delegated Officer has amended the above licence in accordance with section 59 of the *Environmental Protection Act 1986* as set out in this Amendment Notice.

Date signed: 23 November 2016

Caron Goodbourn

ACTING MANAGER LICENCING (WASTE INDUSTRIES)

an officer delegated under section 20 of the Environmental Protection Act 1986 (WA)

Amendment Notice

This Notice is issued under section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the Licence issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B(9) of the EP Act.

Amendment Description

The Licence is amended following the identification of administrative errors within the regulatory controls applied to the amended Licence, that was granted on 14/07/2016 for the operation of the Category 67A Compost manufacturing and soil blending prescribed activities, which impact the operation of the prescribed activities. The administrative errors identified were:

- Condition 1.1.2: definitions used within the Licence that require amendment due to the amendments identified below, are not relevant to the content of the Licence (e.g. terms that are not present within the Conditions of the Licence) or were identified as significant omissions for the interpretation of the Conditions.
- Condition 1.2.3: the restriction of the composting windrow lengths to a maximum length of 20 meters and separated by at least 5 metres. The approval granted on 14/07/2016 to undertake Category 67A Compost manufacturing and soil blending prescribed activities did not justify the change with regards to an emission risk. The composting hardstand is required to be contained by a 150 mm bund. The containment of the composting windrows within the composting hardstand is sufficient to address the risk of leachate. The restriction of composting windrow lengths and addition of a minimum separation was not justified.
- Condition 1.2.3: the application of windrows size restrictions to the stockpiled green waste; the green waste was never intended to be stockpiled. The approval granted on 14/07/2016 to undertake Category 67A Compost manufacturing and soil blending prescribed activities did not justify the need for green waste to be stored in windrows.
- Condition 1.2.3: the restriction of waste (sludge and green waste) storage to a maximum of 7 days. The approval granted on 14/07/2016 to undertake Category 67A Compost manufacturing and soil blending prescribed activities did not justify the need to restrict waste stored for no more than seven days.
- Condition 1.2.4: the amendment of the liquid waste facility pond freeboard level from 300 to 500 mm. The approval granted on 14/07/2016 to undertake Category 67A Compost manufacturing and soil blending prescribed activities did not change the risk associated with the storage of liquid waste within the pond and therefore the amendment to freeboard levels was not justified.
- Condition 3.2.1: the amendment of the frequency of monitoring emissions to land by removing the term 'when irrigating'. The approval granted on 14/07/2016 to undertake Category 67A Compost manufacturing and soil blending prescribed activities did not justify the need to monitor the wastewater quality within the liquid waste storage dam in months when irrigation is not occurring.

The amendment to Conditions 1.2.3, 1.2.4 and 3.2.1 are made by the Delegated Officer pursuant to section 59(1)(a) of the EP Act.

The Licence Holder has identified that the following equipment is always available at the Premises for the purposes of dust and fire suppression:

- 12 tonne wheel loader with fire suppression system installed.
- 8000 litre fire truck.
- Fire pump.

In addition, the Licence Holder has identified that the following additional equipment can be mobilised at the Premises with short notice for the purposes of dust and fire suppression, if required:

- 18 tonne wheel loader with fire suppression system installed.
- 40 tonne long reach excavator with fire suppression system installed.
- 18 tonne bulldozer with fire suppression system installed.
- 42 tonne bulldozer with fire suppression system installed.
- 25 tonne 6x6 dump truck with fire suppression system installed.
- Trailer mounted 1000 litre fire unit.
- 4000 litre fire unit.

In consideration of the administrative amendments identified above, the Delegated Officer has given some consideration to fugitive emissions regarding the compost and waste materials that may arise in the form of dust, odour and the risk of fire. The administrative amendments are not considered to have materially changed the risks associated with the potential emissions. The identification and specification of machinery capable of addressing the occurrence of these emissions within the new Condition 1.2.10, in conjunction with the existing Conditions of the Licence, is considered appropriate within this context.

The addition of Condition 1.2.10 is made by the Delegated Officer pursuant to section 59(1)(b) of the EP Act.

Decision

The Delegated Officer has determined that amendments be made to Conditions 1.2.3, 1.2.4 and 3.2.1 of the Licence and that new Condition 1.2.10 is added. The Conditions are amended to address the administrative errors identified by the Delegated Officer.

The Delegated Officer does not consider that this approach will impact the risk profile or operation of the prescribed activities at the Premises. There is no additional risk expected through the amendment of the Conditions.

Amendment History

Instrument	Granted	Amendment
L7827/2001/5	16/12/2015	DER initiated Amendment to extend expiry date of Licence L7827/2001/5 to 19 January 2017.

L7827/2001/5	29/04/2016	DER initiated Amendment Notice to extend expiry date of Licence L7827/2001/5 to 19 January 2020.
L7827/2001/5	14/07/2016	Licence Holder initiated Amendment to add Category 67A (Compost manufacturing and soil blending) prescribed activities and associated regulatory controls approved through works approval W5905/2015/1.
L7827/2001/5	24/11/2016	DER initiated Amendment Notice to: <ul style="list-style-type: none"> • Amend relevant definitions within Condition 1.1.2; • Amend Condition 1.2.3 with regards to controls of waste storage, process limitations and administrative errors. • Amend Condition 1.2.4 with regards to freeboard levels and administrative errors. • Add Condition 1.2.10 with regards to minimum machinery requirements to assist in the control of fugitive emission while compost manufacturing and soil blending activities are being undertaken. • Amend condition 3.2.1 with regards to the frequency of monitoring requirements.

Amendment

1. Condition 1.1.2 of the Licence is amendment by the deletion of the text shown in strikethrough below and the addition of text shown in red below:

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

'AS4454' means the Australian Standard AS 4454-2012 Composts, soil conditioners and mulches;

'Licensed landfill' means a landfill licensed under the Act;

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

'quarterly' means the 4 inclusive periods from 1 January to 31 March, 1 April to 30 June, 1 July to 30 September and 1 October to 31 December ~~and in the year~~ in the same year;

'six monthly' means the 2 inclusive periods from 1 January to 30 June to 1 July to 31 December in the same year;

'Windrow' means ~~greenwaste or~~ compost or soil conditioned stockpiles;

2. Condition 1.2.3 of the Licence is amendment by the deletion of the text shown in strikethrough below and the addition of text shown in red below:

1.2.3 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 1.2.2.

Table 1.2.2: Waste processing

Waste type	Process	Process limits
Liquid waste – all types specified in	Receipt, handling, storage and	Treatment of all liquid waste shall be at or below the treatment capacity of 20,000 tonnes per annual period.

Table 1.2.2: Waste processing

Waste type	Process	Process limits
Table 1.2.1	treatment prior to discharge to irrigation	
Composting material which includes a mixture of sludge/ greenwaste (feedstock)	Receipt, handling and storage prior to composting	<ul style="list-style-type: none"> Waste shall not be stored for longer than 7 days before being added to the composting process. Waste shall not be stored within 20 metres of the Premises boundary.
	Treatment by composting and pasteurisation	<ul style="list-style-type: none"> Windrows shall be turned regularly to ensure aerobic conditions are maintained. The core temperature of the composting pile is maintained between 55 °C and 65 °C for a period of at least 15 days. Moisture level in the composting piles shall be maintained between 40 to 65 per cent. Windrows shall not exceed 3 metres high, and 3 metres wide and 20 metres long. Windrows shall be separated by at least 40 5 metres of clear ground. Composting leachate is collected and returned to the composting process. Ensure that, as a minimum, compost sold commercially for export of-site meets physical and chemical requirements set out by AS4454 and meets P1C1 within the document Western Australia Guidelines for Biosolids Management (Department of Environment and Conservation 2012). Shall produce no more than 67500 tonnes per annual period of compost. Liquid wastes (other than composting leachate) are not permitted to be composted. Only sludges generated from the onsite liquid waste facility at the Premises may be accepted used for composting
Greenwaste only	Receipt, handling, storage prior to composting	<ul style="list-style-type: none"> Windrows shall not exceed 2 metres high, and 3 metres wide and 20 metres long. Temperatures within windrows are monitored on a weekly basis; Windrows Stockpiles with an internal temperature exceeding 80 degrees Celsius are turned, mixed or otherwise treated, to reduce the temperature until the temperature is reduced below 80 degrees Celsius; and A 10 metre fire break shall be maintained around greenwaste windrows stockpiles. The shredding or grinding of greenwaste shall not be undertaken at the Premises.

3. Condition 1.2.4 of the Licence is amendment by the deletion of the text shown in strikethrough below and the addition of text shown in red below:

1.2.4 The Licensee shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure requirements detailed in Table 1.2.3.

Table 1.2.3: Containment infrastructure		
Vessel or compound	Material	Requirements
Liquid waste receival tank	Liquid waste specified in Table 1.2.1	<ul style="list-style-type: none"> • Impervious concrete tank • Concrete hardstand area shall direct wastewater spillages to the receival tank for anaerobic ponds.
Non-Conforming Load Tank	J130 - Oil interceptor waste	<ul style="list-style-type: none"> • Impervious concrete tank. • Concrete hardstand area shall direct wastewater spillages to the receival tank for anaerobic ponds.
	J120 - Waste oil and water mixtures or emulsions and hydrocarbon and water mixtures or emulsions	
	J180 - Oil Sludge	
	J100 - Waste oils unfit for their intended purpose;	
	J170 - Used oil filters.	
Three anaerobic storage ponds	Treated effluent	<ul style="list-style-type: none"> • Synthetic liner with a permeability of less than at least 2×10^{-10} m/s. • Freeboard of at least 300 mm 800mm.
Two facultative ponds	Treated effluent	<ul style="list-style-type: none"> • Synthetic liner with a permeability of less than at least 2×10^{-10} m/s. • Freeboard of at least 300 mm 800mm.
Liquid waste storage pond and dam	Treated effluent	<ul style="list-style-type: none"> • Clay lined with a permeability of less than at least 1×10^{-9} m/s. • Freeboard of at least 300 mm 500mm.
Compost Facility Hardstand Pad	Compost	<ul style="list-style-type: none"> • have a A minimum 2% drainage gradient to ensure the free drainage of all leachate to leachate collection infrastructure. • Bunded hardstand area. • kKerbing/ bunding of at least 150mm in height. • have a A seal between the hardstand and any bunding/kerbing that is impervious (less than 1×10^{-9} m/s). • be eCovered with a protective layer that will protect the liner from damage as a result of day-to-day activities or machinery movements.
Leachate collection infrastructure	Compost leachate	<ul style="list-style-type: none"> • Synthetic liner with have a permeability of less than at least 1×10^{-9} m/s.
Composting Facility Leachate Storage Dam	Compost leachate	<ul style="list-style-type: none"> • Synthetic liner with have a permeability of less than at least 1×10^{-9} m/s. • Freeboard of at least 500mm.

4. Condition 1.2.10 has been added to the Licence by the addition of text shown in red below:

1.2.10 The Licensee must ensure that as a minimum the following equipment is available at the Premises when undertaking compost manufacturing and soil blending activities:

- (a) A front end loader;
- (b) A truck with capacity of at least 8000 litres; and
- (c) Mobile fire pump.

5. Condition 3.2.1 of the Licence is amended by the deletion of the text shown in strikethrough below and the addition of text shown in red below:

3.2.1 The Licensee shall undertake the monitoring in Table 3.2.1 according to the specifications in ~~that~~ Table 3.2.1.

Table 3.2.1: Monitoring of emissions to land					
Emission point reference (identified on the map of emission points in Schedule 1)	Monitoring point and reference location	Parameter	Units	Averaging period	Frequency
L1	Irrigation flow meter	Volumetric flow rate	kL/day	Daily	Daily Continuous
L2	Liquid waste storage dam	pH	pH units	Spot sample	Monthly, when irrigating
		Total Nitrogen	mg/L		
		Nitrate-nitrogen			
		Total Phosphorus			
		Biochemical Oxygen Demand			
		Total Dissolved Solids			
		Oil and grease			
		Electrical Conductivity	dS/m		
		Aluminium	mg/L	Spot sample	Annually
		Arsenic			
		Cadmium			
		Chromium			
		Copper			
Manganese					
Nickel					
Lead					
Zinc					
L3	Stormwater run-off dam	pH	pH units	Spot sample	Quarterly