



Amendment Notice 1

Licence Number	L8332/2009/3
Licence Holder	Tox Free Australia Pty Ltd
ACN	127 853 561
Registered business address	24 Sangiorgio Court OSBORNE PARK WA 6017
Date of amendment	18/05/2017
Prescribed Premises	61: Liquid waste facility 61A: Solid waste facility
Premises	Karratha Liquid Waste Treatment Plant and Waste Transfer Station Lot 126 on Plan 183297 COOYA POOYA WA 6714

Amendment

The Chief Executive Officer (CEO) of the Department of Environment Regulation (DER) 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: 18 May 2017

Steve Checker

MANAGER LICENSING (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

Tox Free Australia Pty Ltd (Tox Free) operates the Karratha Liquid Waste Treatment Plant and Waste Transfer Station (the Facility) approximately 12km south of Karratha. The Facility accepts liquid waste from regional industries. It is treated using processes such as separation and filtration and then discharged to lined evaporation ponds. The Facility accepts liquid waste which may contain a solid component. This solid waste is separated from the liquid waste and stored until sufficient quantities accumulate to be disposed of to an approved landfill.

Tox Free has submitted an amendment application to store Naturally Occurring Radioactive Material (NORM) (contaminated infrastructure) associated with the offshore oil and gas industry.

Tox Free will receive NORM contaminated waste in palletized drums and will be stored in a dedicated storage shed already constructed at the Facility. NORM contaminated waste will also be stored in fully enclosed sea containers at the Facility. The storage shed is cyclone rated and has a bunded concrete base.

It is Tox Free's intention to eventually clean and treat NORM contaminated waste. These activities will be the subject of other Amendments.

Tox Free have approval from the Radiation Council of Western Australia (RCWA) for the storage of NORM material at the Facility. The Facility is registered with RCWA until 16 December 2019. As RCWA are the principal regulatory authority in WA on radiation matters, DER will defer the technical assessment and regulation of these aspects of NORM to RCWA.

Decision

The Delegated Officer has determined that an amendment be made to the Licence for Tox Free to accept NORM contaminated waste on the basis that approval has been granted by RCWA to accept NORM at the Facility.

The Delegated Officer considers the amendment as appropriate and in line with other premises as assessed across the State, and in accordance with DER's regulatory approach.

In granting this amendment, the Delegated Officer has considered the following DER Guidance Statements:

- *Guidance Statement: Regulatory Principles (July 2015)*
- *Guidance Statement: Setting Conditions (October 2015)*
- *Guidance Statement: Land Use Planning (February 2017)*
- *Guidance Statement: Licence Duration (August 2016)*
- *Guidance Statement: Decision Making (November 2016)*

- *Guidance Statement: Risk Assessment (November 2016)*
- *Guidance Statement: Environmental Siting (November 2016)*

The Delegated Officer does not consider that this amendment will impact the risk profile of the premises, which is currently considered as moderate.

Other approvals

The Licence Holder has provided the following information relating to other approvals as outlined in Table 1.

Table 1: Relevant approvals

Legislation	Number	Approval
Radiation Safety Act 1975	RS 188/2016 27887	Tox Free were granted registration by RCWA to store NORM at the Facility until 16 December 2019.

Location, environmental siting and potential receptors

Table 2 below lists the relevant sensitive land uses in the vicinity of the prescribed premises which may be receptors relevant to the proposed amendment.

Table 2: Receptors and distance from prescribed premises

Residential and sensitive premises	Distance from Prescribed Premises
Kingfisher accommodation village	Approximately 2.2 km north of the prescribed premises boundary

Table 3 below lists the relevant environmental receptors in the vicinity of the prescribed premises which may be receptors relevant to the proposed amendment.

Table 3: Environmental receptors and distance from prescribed premises

Environmental receptors	Distance from Prescribed Premises
Seven Mile Creek	Approximately 1.2km east of the prescribed premises boundary

Risk assessment

Tables 4 and 5 below describe the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. Both tables identify whether the emissions present a material risk to human health or the environment, requiring regulatory controls.

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities	Potential Emissions	Potential Receptors	Potential Pathway	Potential Adverse Impacts				
Category 61A: Solid waste facility	<i>Receipt, handling and storage prior to disposal</i>	Emissions to land <i>associated with pipe backwash/wasting operations and treatment process</i>	Groundwater Local soils within the Premises	Land and groundwater <i>– direct infiltration into soil and groundwater</i> <i>Seven Mile Creek is 1.2km east of the premises</i>	<i>Moderate</i>	<i>Rare</i>	<i>Medium</i>	<i>No discharge to land is proposed through the storage and handling of NORM waste.</i> <i>The storage shed where the NORM waste will be kept is concrete lined. The shed is fronted by a sealed concrete apron, fronting onto a sealed, bunded access road with blind drains for LoC control. The shed backs onto a sealed, bunded cleaning pad with blind drain.</i>

Amendment History

Instrument	Issued	Amendment
L8332/2009/3	29/04/2016	Amendment Notice 1: Amend expiry date to 29 March 2031
L8332/2009/3	18/05/2016	Amendment Notice 2: Storage of NORM contaminated waste

Amendment

1. Condition 1.3.6 of the licence is amended by the insertion of the text shown in red underline below.

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

Table 1.3.3: Containment infrastructure		
Vessel or compound	Material	Requirements
3 x Evaporation ponds	Processed (treated) wastewater	HPDE lined
Storage Tanks	Wastewater, stormwater and oil	Impervious tanks. Stored on banded, impervious concrete hardstand pad.-
Receivals Area	Packaged Waste	Stored on banded, impervious concrete hardstand pad.-
Recycling Bin storage area	Steel and plastic	None specified
Empty container processing area	Empty containers	None specified
Packaged waste for transhipment. IBCs and Drums, rear lift skips and shipping containers	As per table 1.3.1	Stored on banded, impervious concrete hardstand pad.
Empty container storage area	Empty containers	Stored on banded, impervious concrete hardstand pad.
Solid Storage Bays	Materials for landfill pending analysis	Stored on banded, impervious concrete hardstand pad.-
Discharge Bay	Solids and Liquids	Stored on banded, impervious concrete hardstand pad.-
Recycling Sheds	Non-controlled general waste and recyclables	None specified

1, 2, 3, 4, 6, 9 metre skips, 10, 20 and 40 foot refrigerated containers; storage containers	Non-controlled general waste and recyclables	Containers to be labelled and enclosed
<u>NORM storage shed</u>	<u>NORM contaminated waste</u>	<u>NORM to be stored on a bunded, impervious concrete hardstand pad</u>
<u>Dedicated sea containers for Storage of NORM contaminated waste</u>	<u>NORM contaminated waste</u>	<u>NORM to be stored on an impervious hardstand pad</u>
<u>Oversized NORM storage area</u>	<u>NORM contaminated waste</u>	<u>To be stored so that NORM is not able to enter the environment.</u>

Appendix 1: Key documents

	Document title	In text ref	Availability
1	Licence L8332/2009/3 – Karratha Liquid Waste Treatment Plant and Waste Transfer Station	L8332/2009/3	accessed at www.der.wa.gov.au
5	DER, July 2015. <i>Guidance Statement: Regulatory Principles</i> . Department of Environment Regulation, Perth.	DER 2015a	accessed at www.der.wa.gov.au
6	DER, October 2015. <i>Guidance Statement: Setting Conditions</i> . Department of Environment Regulation, Perth.	DER 2015b	
7	DER, August 2016. <i>Guidance Statement: Licence Duration</i> . Department of Environment Regulation, Perth.	DER 2016a	
8	DER, November 2016. <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.	DER 2016b	
9	DER, November 2016. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.	DER 2016c	

Appendix 2: Summary of Licence Holder comments

The Licence Holder was provided with the draft Amendment Notice on 2 May 2017 for review and comment. The Licence Holder responded on 12 May 2017. The following comments were received on the draft Amendment Notice.

Condition	Summary of Licence Holder comment	DER response
N/A	Change licence holder name to Tox Free Australia Pty Ltd	Changed as requested
1.3.6	Edit Table 1.3.3 to include oversized NORM contaminated objects to be stored in the Oversized NORM storage area	Condition 1.3.6, Table 1.3.3 has been amended to include the use of the Oversized NORM storage area