

Amendment Notice 1

Licence Number L9001/2016/1

Licence Holder Shire of Exmouth

File Number: DER2016/001945

Premises Qualing Scarp Waste Management Site Street address

Crown Reserve 43252 EXMOUTH WA 6707

Being Lot 219 on Plan 191996

Date of Amendment 16/3/2018

Amendment

The Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) has amended the above Licence in accordance with section 59 of the *Environmental Protection Act 1986* as set out in this Amendment Notice. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B (9) of the EP Act.

Date signed: 16 March 2018

Steve Checker

MANAGER LICENSING (WASTE INDUSTRIES)

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

Definitions and interpretation

Definitions

In this Amendment Notice, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition					
AACR	Annual Audit Compliance Report					
AER	Annual Environment Report					
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations					
CEO	means Chief Executive Officer.					
	CEO for the purposes of notification means:					
	Director General Department Administering the Environmental Protection Act 1986 Locked Bag 33 Cloisters Square PERTH WA 6850 info-der@dwer.wa.gov.au					
Decision Report	refers to this document					
Delegated Officer	an officer under section 20 of the EP Act					
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.					
DWER	Department of Water and Environmental Regulation					
EP Act	Environmental Protection Act 1986 (WA)					
EP Regulations	Environmental Protection Regulations 1987 (WA)					
Existing Licence	The Licence issued under Part V, Division 3 of the EP Act and in force prior to the commencement of and during this Review					
Licence Holder	Shire of Exmouth					
m³	cubic metres					

Noise Regulations	Environmental Protection (Noise) Regulations 1997 (WA)
Occupier	has the same meaning given to that term under the EP Act.
PM	Particulate Matter
PM ₁₀	used to describe particulate matter that is smaller than 10 microns (µm) in diameter.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Decision Report applies, as specified at the front of this Decision Report.
Risk Event	as described in Guidance Statement: Risk Assessment
UDR	Environmental Protection (Unauthorised Discharges) Regulations 2004 (WA)

Amendment Notice

This amendment is made pursuant to 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.

This notice is limited only to an amendment for Category 61. No changes to the aspects of the original Licence relating to Category's 57 and 64 have been requested by the Licence Holder.

The following guidance statements have informed the decision made on this amendment:

- 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)

Amendment description

The Shire of Exmouth (Licence Holder) has submitted a Licence application to add Category 61: liquid waste facility to its Licence. The Liquid Waste Facility (LWF) at the Premises will include two concrete lined receival pits and one HDPE lined evaporation pond. The Licence Holder will only accept septage waste (K210) and grease trap waste (K110) for treatment at the LWF.

The liquid waste will be discharged into one of two lined receival ponds via a reinforced concrete spillway to allow settling and anaerobic biological decomposition. Once a pond has reached capacity the effluent will flow through a controlled 'below surface' take off pipe into the facultative pond for aerobic decomposition and evaporation. The receival ponds are connected to the evaporation pond by pipework to allow flow by gravity. Once a receival pond is full of sludge it can be closed off to further deliveries, allowed to dry out and the sludge removed and landfilled at an appropriately licenced landfill.

The Facility was inspected in June 2013 and was noted as being non-compliant with the acceptance of liquid waste (receiving more than 100 tonnes per annum) and storage of used tyres (more than 100 used tyres were stored at the Facility). The Licence Holder was granted Works approval W5602/2014/1 on 5 June 2014 for upgrades to the Facility which included construction of a lined facility for the acceptance of liquid waste. The Works Approval has since expired and the works had not commenced. Table 2 below outlines the proposed changes to the Licence.

Table 2: Proposed throughput capacity changes

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment		
61A	N/A	350 tonnes per annual period	Addition of Cat 61 to accept and treated liquid waste for disposal via evaporation.		

Amendment history

Table 3 provides the amendment history for L9001/2016/1

Table 3: Licence amendments

Instrument	Issued	Amendment
L9001/2016/1	16/03/2018	Amendment Notice 1: Addition of Category 61

Location and receptors

The Premises is located 11 kilometres (km) from the Exmouth township at Lyndon location 219, Murat Road and is approximately 28.3 hectares (ha). Table 4 below lists the relevant sensitive land uses in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 4: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from Prescribed Premises			
Local residence	700m southeast of the Premises			

Table 5 below lists the relevant environmental receptors in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 5: Environmental receptors and distance from activity boundary

Environmental receptors	Distance from Prescribed Premises
Exmouth Water Reserve Public Drinking Water Source Area	900m west of the Premises
Exmouth Water Reserve Protection Zone	1.3km west of the Premises
Exmouth Gulf	750m east of the Premises
Groundwater	11.7 – 16.5 metres below ground level (mbgl)

Risk assessment

Tables 6 and 7 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 public health or the environment, requiring regulatory controls.

Table 6: Risk assessment for proposed amendments during construction

			c Event	J		0	1 21-121-1-1		
Source/	Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts	Consequence rating	Likelihood rating	Risk	Reasoning
Cat 61: liquid waste	Increased vehicular movements	Dust	Nearest sensitive receptor is located 700m southeast of the Premises	Air / wind dispersion	Amenity impacts; mental health impacts	Slight	Unlikely	Low	Dust from increased vehicle movement is expected to be limited due to the short nature of the construction works required at the Premises. The Licence Holder has a water cart at the premises to suppress dust and vehicle speed limits are enforced. The Delegated Officer also considers that the provisions of Section 49 of the Environmental Protection Act 1986 are sufficient to regulate dust emissions.
facility	Construction of LWF ponds	Noise	Nearest sensitive receptor is located 700m southeast of the Premises	Air / wind dispersion	Amenity impacts; mental health impacts Amenity impacts; mental health impacts	Slight	Unlikely	Low	Noise from construction activities such as earthworks machinery is expected to be minimal due to the short term nature of the activities. The Delegated Officer considers the Environmental Protection (Noise) Regulations 1997 sufficient to regulate noise emissions from the premises. Dust from earthwork machinery and associated construction activities are expected to be limited due to the short nature of the

			construction works required at the Premises. The Licence Holder has a water cart at the premises to suppress dust.
			The Delegated Officer also considers that the provisions of Section 49 of the <i>Environmental Protection Act 1986</i> are sufficient to regulate dust emissions.

Table 7: Risk assessment for proposed amendments during operation

		sk Event			Usaliba and				
Source	e/Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts	Consequence rating	ce Likelihood rating Risk		Reasoning
Cat 61: liquid waste facility	Liquid waste acceptance, and disposal via evaporation	Odour	Nearest sensitive receptor is located 700m southeast of the Premises	Air / wind dispersion	Amenity impacts; mental health impacts	Slight	Unlikely	Low	The Delegated Officer notes that the Premises has previously received liquid waste at the premises and to date, no compliant regarding odour has been received. The Delegated Officer also notes that the nearest sensitive receptor is located 700m southeast. The Delegated Officer considers that the provisions of Section 49 of the Environmental Protection Act 1986 are sufficient to regulate odour emissions.
		Overtopping of ponds resulting in sewage and	Groundwater at the Premises is between 11.7 –	Discharge to land via soil to	Soil and groundwater contamination	Slight	Rare	Low	The Delegated Officer notes that The Licence Holder will maintain an

grease trap waste discharged to land	16.5 mbgl. The Exmouth PDWSA and the Exmouth Water Reserve Protection Zone is 900m and 1.3km west of the Landfill respectively	groundwater	resulting increased nutrient levels				operating freeboard of 500m on all ponds to allow for a 1-in-10 (90th percentile) wet year rainfall event and for wind induced wave action. The Delegated Officer considers the provision of the UDR to be sufficient to regulated any discharges from the ponds.
Seepage of septage and grease trap waste from compromised pond liners.	Groundwater at the Premises is between 11.7 – 16.5 mbgl. The Exmouth PDWSA and the Exmouth Water Reserve Protection Zone is 900m and 1.3km west of the Landfill respectively	Discharge to land via soil to groundwater	Soil and groundwater contamination resulting increased nutrient levels	Minor	Rare	Low	Both receival ponds and the evaporation pond will be lined with a HDPE liner to prevent discharges to land. The Licence Holder will conduct visual integrity tests once the ponds have been constructed and the lining placed within the ponds. The Delegated Officer considers the provision of the UDR to be sufficient to regulated any discharges from the ponds.

Decision

The Delegated Officer has determined that an amendment be made to the Licence at add Category 61: liquid waste facility to the Licence for the Licence Holder to accept and treat liquid waste for disposal via evaporation.

Condition 1.2.10 and 1.2.11 will require infrastructure to be constructed in specific detail as outlined in column two of table 1.2.4 to ensure works are carried out as intended to be constructed as submitted by the Applicant and to ensure there are no risks to public health or the environment. Condition 1.2.11 requires a notification to the CEO if there have been departures for the works specification table in order for DWER to assess if the changes made have potential to impact public health or the environment. Conditions 1.2.13 and 1.2.14 require a compliance document to be submitted to the CEO to outline that each infrastructure has been constructed in accordance with the Amendment Notice.

Condition 1.2.2 has been amended to allow for the waste acceptance of biological liquid waste (septage waste, sewage waste and grease trap waste). This condition limits the liquid waste received to 350 tonnes per year as requested by the Licensee and requires all biological liquid waste to be discharged into one of the two Receival ponds to ensure the waste is treated accordingly.

Condition 1.2.4 has been amended to allow for the biological treatment of the liquid waste.

Condition 1.2.15 has been added to the Licence to ensure The Licence Holder maintains the integrity of the two receival Ponds and Evaporation Pond. This will ensure there are no unregulated discharges to the environment or seepage from the ponds, potentially impacting on groundwater.

Condition 1.2.16 has been added to the Licence to ensure overtopping of the ponds does not occur, which could result in an unregulated discharge from the Premises and to ensure vegetation and other debris does not impact upon the integrity of the ponds.

Condition 2.2.1 has been amended to include the biological liquid waste to be monitored as it arrives at the premises for treated and disposal via evaporation. This information will assist the Licence Holder in complying with conditions relating to the Annual Environmental Report.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 16 February 2018. The Licence Holder outlined via email correspondence that there were no issues or concerns with the draft Amendment Notice.

Amendment

- 1. The Licence is amended by the addition of Conditions 1.2.10, 1.2.11, 1.2.12, 1.2.13 and 1.2.14 as shown below:
 - 1.2.10 The Licensee must ensure that the proposed works specified in Column 1 of Table 1.2.4 meets or exceeds the specifications in Column 2 of Table 1.2.4 for the infrastructure in each row of Table 1.2.4.
 - 1.2.11 The Licensee must not depart from the specifications in Table 1.2.4 except:
 - (a) where such departure is minor in nature and does not materially change or affect the infrastructure: or
 - (b) where such departure improves the functionality of the infrastructure and does not increase risks to public health, public amenity or the environment; and all other Conditions in this Licence are still satisfied.

Table 1.2.4: Work	s specifications
Column 1	Column 2
Infrastructure ¹	Specifications (design and construction)
Receival Pond	Constructed to meet the following:
1	1. Operating surface of 8 m x 8 m (64 m²) of 2.0m maximum effluent depth;
	2. 56kL capacity;
	3. Lined with HDPE and shall be subject to construction quality assurance
	processes in accordance with Level 1 of Australian Standard AS3798-2007
	Guidelines on Earthworks for Commercial and Residential Development;
	4. Each HDPE lining shall be secured by dedicated anchor trenches; and
	5. Interconnecting pipework to transfer waste to Evaporation Pond.
Receival Pond	Constructed to meet the following:
2	1. Operating surface of 8 m x 8 m (64 m²) of 2.0m maximum effluent depth;
	2. 56kL capacity;
	3. Lined with HDPE and shall be subject to construction quality assurance
	processes in accordance with Level 1 of Australian Standard AS3798-2007
	Guidelines on Earthworks for Commercial and Residential Development;
	4. Each HDPE lining shall be secured by dedicated anchor trenches; and
	5. Interconnecting pipework to transfer waste to Evaporation Pond.
Evaporation	Constructed to meet the following:
Pond	1. Operating surface of 20 m x 10 m (200 m²) of 2.0m maximum effluent depth;
	2. 121kL capacity;
	3. Lined with HDPE and shall be subject to construction quality assurance
	processes in accordance with Level 1 of Australian Standard AS3798-2007
	Guidelines on Earthworks for Commercial and Residential Development;
	4. Each HDPE lining shall be secured by dedicated anchor trenches; and
	5. Interconnecting pipework to receive waste from Receival Ponds 1 & 2.

- 1.2.12 If any departures outlined in Condition 1.2.11 apply, then the Licensee must provide the CEO with a list of departures which are certified as complying with Condition 1.2.11 at the same time as the certifications under Condition 1.2.13.
- 1.2.13 The Licensee must submit a construction compliance document to the CEO within one month, following the construction of the Works at the Premises.
- 1.2.14 The Licensee must ensure the construction compliance document:
 - (a) is certified that each item of infrastructure specified under Condition 1.2.11, Table 1.2.4 has been constructed in accordance with the Conditions of the Licence and any documentation submitted under condition 1.2.12 with no material defects; and
 - (b) is signed by a person authorised to represent the Licensee and contain the printed name and position of that person within the company.
- 2. Condition 1.2.2 of the Licence is amended by the insertion of the red text shown in underline below:
- 1.2.2 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 ¹					
Clean Fill	Combined total	None specified.					
Contaminated Solid Waste	limit of 5 000	Must meet the acceptance criteria for Class II					
	tonnes per annual	landfill.					
Inert Waste Type 1	period	None specified.					
Inert Waste Type 2		Tyres and plastic only.					

Putrescible Waste		None specified.
(including green waste)		
Solid Hazardous Waste		Limited to used lead acid batteries, engine oil
		filters, aerosol cans and empty drums.
Liquid Hazardous Waste		Limited to paint, waste oil and oily wastes (e.g.
		from oil filters)
Special Waste Type 1		Cement bonded asbestos only. No fibrous
		asbestos shall be accepted.
Special Waste Type 2		Biomedical / clinical waste that is not
		radioactive ² .
Liquid waste (limited to	Combined total	Biological waste (septage and grease trap
septage waste, sewage	limit of 350 tonnes	waste only).
waste and waste from	per annual period	
grease traps)		Tankered into the premises and discharged in
		one of the two receiving ponds.

- 3. Condition 1.2.4 of the Licence is amended by the insertion of the red text shown in underline below:
- 1.2.4 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(s)	Process	Process limits 1,2	
All	Disposal of waste by landfilling	 Shall only take place within designated landfill trenches or cells; No waste shall be temporarily stored or landfilled within 35m from the boundary of the premises; and The separation distance between the base of the landfill and the highest groundwater level shall not be less than 3m. 	
Hazardous Wastes	Receipt, handling, storage prior to re-use or off- site disposal	Waste oil, paint, vehicle batteries must be stored in a fully enclosed bunded area/container.	
Clean Fill		None specified.	
Contaminated Solid Waste	Receipt, handling and disposal by	Must meet the acceptance criteria for Class II landfill.	
Inert Waste Type1	landfilling	None specified.	
Inert Waste Type 2 - Tyres	Receipt, handling, storage prior to re-use or disposal by landfilling	Tyres to be stored in dedicated tyre cells.	
Putrescible Waste	Receipt, handling and storage prior to disposal	None specified.	
	Disposal by	Only green waste is to be burnt on site. Green waste shall only be burnt if;	

Table 1.2.2: Waste processing			
Waste type(s)	Process	Process limits ^{1,2}	
	Burning	 It has been dried and seasoned for at least 2 months before burning; it takes place in a designated burning area at least 25m from the boundary of any active disposal areas; it takes place in trenches or windrows; it takes place only when an adequate supply of water is available to effectively manage the burning process; and it is free of any contaminant. 	
Special Waste Type 1 (asbestos waste) Special Waste Type 2 (Biomedical and Clinical	Receipt, handling and disposal by landfilling	 Only to be disposed of into a designated asbestos disposal area within the landfill; Not to be deposited within 2m of the final tipping surface of the landfill; and No works shall be carried out on the landfill that could lead to a release of asbestos fibres. Only to be disposed of into a designated biomedical waste disposal area within the landfill; Not to be deposited within 2m of the final tipping surface of the landfill; and 	
Waste)		No works shall be carried out on the landfill that could lead to biomedical wastes being excavated or uncovered.	
Liquid waste (Septage waste, Sewerage waste, waste from grease traps	Biological treatment	None specified	

- 4. The Licence is amended by the addition of the following Condition:
- 1.2.15 The Licensee shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.2.4.

Table 1.2.4: Containment infrastructure			
Vessel or compound	Material	Requirements	
Receival Pond 1			
Receival Pond 2	Wastewater	HDPE lined and maintained in an impervious condition.	
Evaporation Pond			

- 5. The Licence is amended by the addition of the following Condition:
- 1.2.16 The Licensee shall manage all wastewater treatment and evaporation ponds such that:
 - (a) overtopping of the ponds does not occur;
 - (b) trapped overflows are maintained on the outlet of ponds to prevent carry-over of surface floating matter; and
 - (c) vegetation and floating debris (emergent or otherwise) is prevented from encroaching onto pond surfaces or inner pond embankments.
- 6. Condition 2.2.1 of the Licence is amended by the insertion of the red text shown in underline below:

2.1.1 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	Clean Fill, Contaminated Solid Waste, Hazardous Wastes, Inert Waste Type 1, Inert Waste Type 2, Putrescible Waste, Green Waste, Special Waste Type 1, and Special Waste Type 2, and Liquid Waste	m³	N/A	Each load arriving at the Premises
Waste outputs	Waste type as defined in the Landfill Definitions			Each load leaving or rejected from the Premises

Appendix 1: Key documents

	Document title	In text ref	Availability
1	Licence L9001/2016/1 - Qualing Scarp Waste Management Facility	L9001/2016/1	accessed at www.dwer.wa.gov.au
2	Works Approval W5602/2009/1– Qualing Scarp Waste Disposal Site	W5602/2014/1	accessed at www.dwer.wa.gov.au
5	DER, July 2015. <i>Guidance Statement:</i> Regulatory principles. Department of Environment Regulation, Perth.	DER 2015a	accessed at www.dwer.wa.gov.au
6	DER, October 2015. Guidance Statement: Setting conditions. Department of Environment Regulation, Perth.	DER 2015b	
7	DER, August 2016. Guidance Statement: Licence duration. Department of Environment Regulation, Perth.	DER 2016a	
8	DER, November 2016. Guidance Statement: Risk Assessments. Department of Environment Regulation, Perth.	DER 2016b	
9	DER, November 2016. Guidance Statement: Decision Making. Department of Environment Regulation, Perth.	DER 2016c	