



Licence Number	L8070/2005/2
Licence Holder	Water Corporation
ACN	N/A
Registered business address	629 Newcastle Street LEEDERVILLE WA 6007
Date of amendment	Thursday, 15 September 2016
Prescribed Premises	Category 54: Sewage Facility
Premises	Mundaring Wastewater Treatment Plant Lot 304 on Plan 192455 Digby Way MUNDARING WA 6073

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: 15 September 2016

Alan Kietzmann

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

The Water Corporation (the Licence Holder) operates the Mundaring Wastewater Treatment under Licence L8070/2005/2. The Licence was granted on 24 October 2013 and amended by DER on 12 July 2016 to reflect recent upgrades at the Premises and an increased throughput that was authorised under Works Approval W4921/2011/1. The authorised throughput capacity is 240 cubic metres per day. The licence authorises discharges to land (irrigation) and water (Jarrah Creek, when the reuse option is not available) with water quality monitoring requirements.

The requirement to monitor treated wastewater emissions for 'nitrate nitrogen' is specified in conditions 3.3.1 and 3.4.1 of the licence. Following the 12 July 2016 amendment, the Licence Holder questioned the requirement to monitor the irrigated water sample point for nitrate-nitrogen rather than nitrite plus nitrate-nitrogen as typically required by other category 54 licences issued to the Water Corporation.

This Amendment Notice is a DER initiated amendment to amend the monitoring requirements.

Decision

The Delegated Officer has verified that similar category 54 licences issued to the Licence Holder require the monitoring of discharged wastewaters to include nitrite plus nitrate-nitrogen.

For water quality monitoring purposes, both nitrate-nitrogen and nitrite plus nitrate-nitrogen parameters are indicative of the volume of nitrogen present in the form of nitrate. However, nitrite plus nitrate-nitrogen is considered a more accurate representation of total concentrations as nitrite readily converts into nitrate.

DER records do not indicate any reason for this difference in parameters between licences. Previous annual reports submitted by the Water Corporation have included figures as nitrite plus nitrate-nitrogen and these have been accepted by DER.

The Delegated Officer has determined that an administrative amendment is required to change the monitoring parameters in Tables 3.3.1 and 3.4.1 from nitrate-nitrogen to nitrite plus nitrate-nitrogen to ensure consistency across licences granted to the Licence Holder. This monitoring requirement will apply for the 2016 annual period onwards.

Amendment History

Instrument	Issued	Amendment
L8070/2005/2	24/10/2013	Licence re-issue
L8070/2005/2	24/06/2016	Licence amendment to new format, updating premises operation to allow for upgraded treatment processes and extending expiry date.
L8070/2005/2	15/09/2016	Amendment Notice 1 Administrative amendment to change reporting parameters.

Amendments

1. Table 3.3.1 of the licence is amended by the by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

Table 3.3.1: Monitoring of emissions to land			
Emission point reference	Parameter	Units	Frequency
Irrigated Water Sample Point (storage contact tank)	Thermotolerant Coliforms (E.coli)	cfu/100 ml	Monthly when discharging
	pH (in field testing)	-	
	Total Suspended Solids	mg/L	
	Total Dissolved Solids		
	5 Day BOD (Biological Oxygen Demand)		
	Total Nitrogen		
	Total Phosphorus		
	Ammonium-Nitrogen		
Nitrate Nitrogen <u>Nitrite + Nitrate-Nitrogen</u>			

2. Table 3.4.1 of the licence is amended by the by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

Table 3.4.1: Monitoring of emissions to surface waters

Emission point	Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
As depicted in Schedule 1: Jarrah Creek Discharge Point	Discharge Point E: 421972.78 N: 6471982.92 MGA: 50	Thermotolerant Coliforms (<i>E.coli</i>)	cfu/100ml	Spot sample	Monthly when discharging to Jarrah Creek.
		pH	-		
		Total Phosphorus	mg/L		
		Total Nitrogen			
		Total Suspended Solids			
		Total Dissolved Solids			
		5 Day BOD (Biological Oxygen Demand)			
		Ammonium-Nitrogen			
Nitrate-Nitrogen <u>Nitrite + Nitrate-Nitrogen</u>					