

Lord Howe Island Waste Management Facility
 EPA Licence No. 10466
 Licence Anniversary 08-Jun
 Licensee Lord Howe Island Board
 Licensee address PO Box 5 Lord Howe Island NSW 2898

Pollutant	Units	EPA licence limits	Results
BOD (mg/L)	mg/L	90% concentration limit <20 and 100% <30	4
Faecal Coliforms	cfu/100mL	100% concentration limit <30	<19
pH	pH	100% within 6.5 - 8.5	6.5 - 8.21
Daily discharge (max)	L/day	3,000	1,871.50

NATA Laboratory Results (except where otherwise indicated) - for EPA Reporting

Discharge Point 2 - AWTS Monthly (Cl & FR - fortnight)	Results Units	LHIB Lab		LHIB Lab		LHIB Lab		LHIB Lab		LHIB Lab		LHIB Lab		LHIB Lab		LHIB Lab		LHIB Lab		LHIB Lab		LHIB Lab														
		Jun-21	30-Jun	Jul-21	14-Jul	Aug-21	10-Aug	25-Aug	Sep-21	21-Sep	28-Sep	Oct-21	05-Oct	Nov-21	03-Nov	23-Nov	06-Dec	21-Dec	Jan-22	11-Jan	Feb-22	02-Feb	15-Feb	Mar-22	01-Mar	Apr-22	05-Apr	13-Apr	23-Apr	May-22	05-May	11-May	19-May	24-May	01-Jun	07-Jun
Ammonia	mg/L	15.4				1.31	<0.01	0.08	14.4						63.2	19.5											0.02	12.6	28.2					51.6	0.84	
BOD	mg/L	<2				<2	<2	<2	2						<2	2											<2	<2	<2					<2	<2	
Chlorine (free residual)	mg/L	0.35				0.19	11.3	0.04	0.06	2.47			0.91	0.9	0.84	2.37		2.5				1.73				24.0	0.19	0.36	1.84	1.07	1.4	0.36	0.16	1.42		
Faecal coliforms	cfu/100mL	1.0	<1	9.8		<1	<1	13	<19	<1			1.0	<1	<1	<1	<1	<1			<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0
Nitrate	mg/L	15.4				13.5	9.86	0.35	10.9						1.81	2.81										3.34	2.16	1.76						0.3	0.32	
Nitrogen (total)	mg/L	36.2				20.4	18.7	1.4	31.9						86.0	31.4										3.8	17.1	31.5						63	4.9	
pH	pH	7.0	7.99	6.9		8.01	7.67	7.17	7.96	7.2			6.7	7.95	7.97	6.6	7.6				6.0	6.9	7.2			7.58	7.86	7.96	6.9	6.5	6.8	8.07	7.52	6.5		
Phosphorus (total)	mg/L	14.4				8.61	11	1.79	10.2						13.2	15										4.25	7.17	9.61						16.2	3.79	
Total Dissolved Solids	mg/L	1420				1360	1430	188	574						1470	1580										292	774	962						1110	366	

Discharge Point 3 - Groundwater Well - Quarterly	Results	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22
Pollutant	Units	ANZ WQG		10-Aug			23-Nov					06-Apr	25-May
Ammonia	mg/L			0.36			0.28					0.23	0.19
BOD	mg/L			<2			4					<2	<2
Faecal coliforms	cfu/100mL			<1			<1					<1	<1
Nitrate	mg/L			0.08			0.01					0.01	<0.01
Nitrogen (total)	mg/L	30		0.6			0.4					0.4	0.5
pH	pH			8.14			8.0					8.21	8.2
Phosphorus (total)	mg/L	3		0.08			0.07					0.08	0.07
Total Dissolved Solids	mg/L			4750			2730					1400	1220
Electrical Conductivity	µS/cm			8260			4440					2560	2160
Turbidity	NTU	0.5		3.1			1.2					0.8	1.1
Sodium Absorption Ratio				16.2			10.2					6.93	5.8
Chlorine (free residual)	mg/L			<0.02			<0.02					<0.02	<0.02

Discharge Point 4 - Groundwater Well Results - Quarterly	Jun-21	Jul-21	Aug-20	Sep-21	Oct-20	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22
Pollutant	Units	ANZ WQG		10-Aug			23-Nov				06-Apr	25-May
Ammonia	mg/L			0.04			0.08				0.05	0.06
BOD	mg/L			<2			<2				<2	<2
Faecal coliforms	cfu/100mL			<1			<1				<1	<1
Nitrate	mg/L			4.41			0.74				0.56	0.24
Nitrogen (total)	mg/L	30		5			0.9				0.8	0.4
pH	pH			8.1			7.98				8.08	8.18
Phosphorus (total)	mg/L	3		0.02			0.01				0.03	0.03
Total Dissolved Solids	mg/L			1140			1020				804	805
Electrical Conductivity	µS/cm			1940			1510				1550	1430
Turbidity	NTU	0.5		0.8			4.6				3.6	0.3
Sodium Absorption Ratio				4.11			3.18				3.24	3.07
Chlorine (free residual)	mg/L			<0.02			<0.02				<0.02	<0.02

Discharge Point 1	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22												
Water Meter Reading	11-Jun	28-Jun	09-Jul	22-Jul	11-Aug	23-Aug	10-Sep	24-Sep	07-Oct	22-Oct	09-Nov	26-Nov	08-Dec	23-Dec	11-Jan	25-Jan	11-Feb	25-Feb	11-Mar	25-Mar	08-Apr	20-Apr	12-May	26-May
Treated effluent (l)	1,109,9830	1,123,4350	1,132,9350	1,141,5890	1,154,7160	1,161,5630	1,170,3720	1,178,5990	1,186,8880	1,193,1820	1,198,6100	1,216,1740	1,228,3560	1,236,6140	1,243,7880	1,259,5970	1,279,2030	1,290,0000	1,306,5820	1,332,7830	1,335,9020	1,339,7710	1,350,5360	1,363,0690
Ave Litres per day	15,946,0000	13,452,0000	9,500,0000	8,654,0000	13,127,0000	6,847,0000	8,809,0000	8,227,0000	8,089,0000	6,494,0000	5,428,0000	17,564,0000	10,182,0000	10,258,0000	7,174,0000	15,809,0000	19,606,0000	10,797,0000	16,582,0000	28,201,0000	3,119,0000	3,869,0000	10,765,0000	12,533,0000
Rainfall in period (mm)	996.62	791.29	863.64	665.69	656.35	570.58	489.39	587.64	622.23	432.93	301.56	1,097.75	783.23	683.87	377.58	1,129.21	1,153.29	771.21	1,184.43	1,871.50	222.79	322.42	489.32	895.21
	25.00	56.00	76.00	175.00	49.00	52.00	114.50	125.00	10.00	88.00	31.00	70.00	18.00	86.00	129.00	70.00	138.50	32.50	133.00	130.50	143.00	51.00	129.50	48.00