



## TANILBA BAY WASTEWATER TREATMENT WORKS - JANUARY MONTHLY POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 4435  
 Date Obtained: 31 January 2017  
 Date Published: 20 February 2017

Licensee Hunter Water Corporation  
 36 Honeysuckle Drive  
 NEWCASTLE WEST NSW 2302

### QUALITY MONITORING

EPA Id. No. 1 Site Code 5SL2900		Site Description - Effluent Distribution Chamber										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the month for licence reporting	Monthly Summary 1 January 2017 to 31 January 2017								
				Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Biochemical Oxygen Demand	milligrams per litre	Weekly	4	2	3	3	4	N/A	N/A	30	4	Yes
Conductivity	microsiemens per centimetre	Monthly	1	590	590	590	590	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	Monthly	1	1.2	1.2	1.2	1.2	N/A	N/A	5	1.2	Yes
Nitrate + Nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	2.3	2.3	2.3	2.3	N/A	N/A	N/A	N/A	N/A
Nitrogen (total)	milligrams per litre	Monthly	1	4.3	4.3	4.3	4.3	N/A	N/A	N/A	N/A	N/A
Oil and Grease	milligrams per litre	Fortnightly	2	<2	2	<2	2	N/A	N/A	N/A	N/A	N/A
Phosphorus (total)	milligrams per litre	Monthly	1	4.1	4.1	4.1	4.1	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Weekly	4	<1	8	8	14	N/A	N/A	50	14	Yes
pH	pH	Weekly	4	7.20	7.30	7.29	7.41	N/A	N/A	6.50 - 8.50	7.20 - 7.41	Yes

EPA Id. No. 3 Site Code		Site Description - Emergency Overflow from Infiltration Pond										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the month for licence reporting #	Monthly Summary 1 January 2017 to 31 January 2017								
				Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Biochemical Oxygen Demand	milligrams per litre	Each Overflow Event	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Each Overflow Event	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Oil and Grease	milligrams per litre	Each Overflow Event	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Each Overflow Event	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
pH	pH	Each Overflow Event	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A

# No samples were collected as no overflow occurred during the month

EPA Id. No. 17 Site Code 54Z3013		Site Description - Pond 1										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the month for licence reporting	Monthly Summary 1 January 2017 to 31 January 2017								
				Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Biochemical Oxygen Demand	milligrams per litre	Quarterly	1	16	16	16	16	N/A	N/A	N/A	N/A	N/A
Conductivity	microsiemens per centimetre	Quarterly	1	555	555	555	555	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Quarterly	1	130	130	130	130	N/A	N/A	N/A	N/A	N/A
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly	1	<0.05	<0.05	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	Quarterly	1	0.63	0.63	0.63	0.63	N/A	N/A	N/A	N/A	N/A
Nitrogen (total)	milligrams per litre	Quarterly	1	6.1	6.1	6.1	6.1	N/A	N/A	N/A	N/A	N/A
pH	pH	Quarterly	1	10.02	10.02	10.02	10.02	N/A	N/A	N/A	N/A	N/A
Phosphorus (total)	milligrams per litre	Quarterly	1	1.8	1.8	1.8	1.8	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Quarterly	1	27	27	27	27	N/A	N/A	N/A	N/A	N/A

EPA Id. No. 18 Site Code 54Z3014		Site Description - Pond 2										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the month for licence reporting	Monthly Summary 1 January 2017 to 31 January 2017								
				Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Biochemical Oxygen Demand	milligrams per litre	Quarterly	1	6	6	6	6	N/A	N/A	N/A	N/A	N/A
Conductivity	microsiemens per centimetre	Quarterly	1	596	596	596	596	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Quarterly	1	400	400	400	400	N/A	N/A	N/A	N/A	N/A
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly	1	0.29	0.29	0.29	0.29	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	Quarterly	1	0.39	0.39	0.39	0.39	N/A	N/A	N/A	N/A	N/A
Nitrogen (total)	milligrams per litre	Quarterly	1	2.3	2.3	2.3	2.3	N/A	N/A	N/A	N/A	N/A
pH	pH	Quarterly	1	7.68	7.68	7.68	7.68	N/A	N/A	N/A	N/A	N/A
Phosphorus (total)	milligrams per litre	Quarterly	1	7.9	7.9	7.9	7.9	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Quarterly	1	103	103	103	103	N/A	N/A	N/A	N/A	N/A

EPA Id. No. 19 Site Code 54Z3015		Site Description - Pond 3										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the month for licence reporting*	Monthly Summary 1 January 2017 to 31 January 2017								
				Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Biochemical Oxygen Demand	milligrams per litre	Quarterly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Conductivity	microsiemens per centimetre	Quarterly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Quarterly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	Quarterly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Nitrogen (total)	milligrams per litre	Quarterly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
pH	pH	Quarterly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Phosphorus (total)	milligrams per litre	Quarterly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Quarterly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A

\*Sample not collected as pond was offline/dry.

EPA Id. No. 20 Site Code 54Z3016		Site Description - Pond 4										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the month for licence reporting	Monthly Summary 1 January 2017 to 31 January 2017								
				Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Biochemical Oxygen Demand	milligrams per litre	Quarterly	1	<2	<2	<2	<2	N/A	N/A	N/A	N/A	N/A
Conductivity	microsiemens per centimetre	Quarterly	1	630	630	630	630	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Quarterly	1	18	18	18	18	N/A	N/A	N/A	N/A	N/A
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly	1	0.87	0.87	0.87	0.87	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	Quarterly	1	0.05	0.05	0.05	0.05	N/A	N/A	N/A	N/A	N/A
Nitrogen (total)	milligrams per litre	Quarterly	1	3.4	3.4	3.4	3.4	N/A	N/A	N/A	N/A	N/A
pH	pH	Quarterly	1	7.73	7.73	7.73	7.73	N/A	N/A	N/A	N/A	N/A
Phosphorus (total)	milligrams per litre	Quarterly	1	5.7	5.7	5.7	5.7	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Quarterly	1	17	17	17	17	N/A	N/A	N/A	N/A	N/A