BRANXTON WASTEWATER TREATMENT WORKS - ANNUAL POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 1680
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Hunter Water Corporation
36 Honeysuckle Drive
NEWCASTLE WEST NSW 2302

QUALITY MONITORING

EPA Id. No. 1 Site Code 5SL0500	Site Description - Outlet from Farmers Reuse Storage														
				Annual Summary 1 October 2015 to 30 September 2016											
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting*	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Number of Measurements	3DGM Actual	100%ile Limit	100%ile Actual
Biochemical Oxygen Demand	milligrams per litre	First 24hrs then weekly	-	-	-	5	-	10	-	N/A	N/A	N/A	N/A	N/A
Chlorine (total residual)	milligrams per litre	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate+Nitrite (oxidised nitrogen)	milligrams per litre	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	First 24hrs then weekly	-	-	-	1.0	-	3.0	-	N/A	N/A	N/A	N/A	N/A
pH	pH	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.50 - 8.50	-
Phosphorus (total)	milligrams per litre	First 24hrs then weekly	-	-	-	0.3	-	1	-	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl Nitrogen	milligrams per litre	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	First 24hrs then weekly	-	-	-	10	-	20	-	N/A	N/A	N/A	N/A	N/A

* No samples were collected as no discharge occurred during the reporting period

EPA Id. No. 11 Site Code 5BL0500	Site Description - Discharge to Black Creek from Reuse Water Storage														
				Annual Summary 1 October 2015 to 30 September 2016											
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Number of Measurements	3DGM Actual	100%ile Limit	100%ile Actual
Chlorine (total residual)	milligrams per litre	First 24hrs then weekly	31	<0.10	0.17	N/A	N/A	0.5	0.13	N/A	N/A	N/A	N/A	N/A

EPA Id. No. 12 Site Code 5SK0535	Site Description - Reuse Water Pump Station														
				Annual Summary 1 October 2015 to 30 September 2016											
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Number of Measurements	3DGM Actual	100%ile Limit	100%ile Actual
Biochemical Oxygen Demand	milligrams per litre	Weekly	51*	<2	5	5	<2	10	2	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Weekly	51*	0	6	150	0	200	0	N/A	N/A	N/A	N/A	N/A
Nitrate+Nitrite (oxidised nitrogen)	milligrams per litre	Monthly	12	2.7	6.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	Monthly	12	<0.05	0.08	1.00	<0.05	3.00	<0.05	N/A	N/A	N/A	N/A	N/A
pH	pH	Weekly	51*	7.1	8.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.5 - 8.5	7.1 - 8.2
Phosphorus (total)	milligrams per litre	Monthly	12	0.058	0.36	0.30	0.13	1.00	0.30	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl Nitrogen	milligrams per litre	Monthly	12	<0.1	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Weekly	51*	<1	2	10	<1	2	<1	N/A	N/A	N/A	N/A	N/A

*Sample from 22nd June 2016 was not collected

EPA Id. No. 13 Site Code 5OV0410	Site Description - Outlet from Wet Weather Storage Pond														
				Annual Summary 1 October 2015 to 30 September 2016											
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Number of Measurements	3DGM Actual	100%ile Limit	100%ile Actual
Biochemical Oxygen Demand	milligrams per litre	First 24hrs then weekly	1	8	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	First 24hrs then weekly	1	190000	190000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate+Nitrite (oxidised nitrogen)	milligrams per litre	First 24hrs then weekly	1	2.90	2.90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	First 24hrs then weekly	1	4.7	4.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	First 24hrs then weekly	1	7.1	7.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phosphorus (total)	milligrams per litre	First 24hrs then weekly	1	1.3	1.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl Nitrogen	milligrams per litre	First 24hrs then weekly	1	7.6	7.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	First 24hrs then weekly	1	34	34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A