Guyra Waste Water Treatment Plant, 7776 Guyra Road, GUYRA NSW 2365, Licence No. 1671

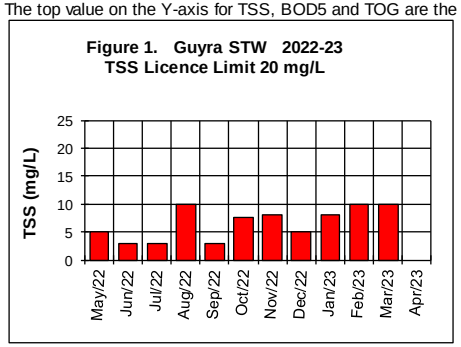
Monitoring Point 1 - discharge to Laura Ck — Licence Period 01May 2022 to 30 April 2023

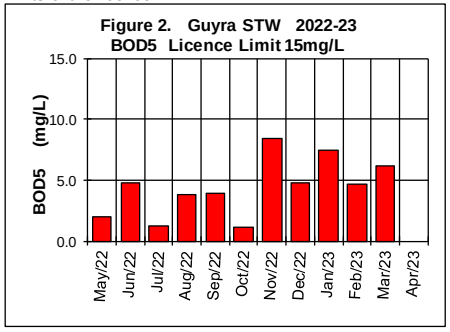
Parameter/month	90th %ile	Units	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Minimum	Average	Maximum	90th %ile
Sample date	Limits		31-May	29-Jun	28-Jul	31-Aug	07-Oct	31-Oct	30-Nov	29-Dec	31-Jan	28-Feb	29-Mar					
pH	6.5-8.5		7.23	7.20	7.72	8.03	7.25	9.51	7.55	8.19	7.31	8.69	7.41		7.2	7.8	9.51	9
EC	no limit	uS/cm	404	474	367	351	270	258	376	474	464	421	335		258	381	474	474
TSS	<20	mg/L	5	3	3	10	3	8	8	5	8	10	10		3	7	10	10.0
BOD5	<15	mg/L	2.0	4.80	1.20	3.80	3.90	1.10	8.40	4.80	7.4	4.7	6.2		1	4.4	8	7.4
Ammonia-N	<5	mg/L	0.64	1.45	0.32	0.26	0.11	0.26	1.21	0.66	1.57	0.28	4.77		0.11	1.0	4.77	1.6
TKN	no limit	mg/L	1.80	3.40	2.90	3.30	2.30	1.50	1.90	3.70	1.20	1.10	8.00		1.10	2.8	8.00	3.7
NOx-N	no limit	mg/L	2.96	3.11	2.25	1.26	1.70	1.10	0.25	<0.01	0.35	1.16	0.79		0.25	1.5	3.11	2.975
Total N	<15	mg/L	4.80	6.20	5.20	4.60	4.00	2.60	2.20	3.70	1.57	2.30	8.80		1.57	4.2	8.80	6.2
SRP	no limit	mg/L	0.13	0.28	0.12	0.12	0.06	0.09	0.09	1.02	0.01	0.20	0.84		0	0.0	1	0.8
TP	<1	mg/L	0.14	0.31	0.11	0.15	0.11	0.29	0.34	1.64	0.18	0.25	0.89		0.11	0.0	1.64	1
TOG	<10	mg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5
Weir FC	no limit	cfu/100 ml	880	80	16	16	48	8.00	24.00	4	504	296	>1600		4	188	880	542
Inflow FC	no limit	cfu/100 ml	3800	5200	1760	160	2120	20	160	800	6000	>6000	>8000		20	2224	6000	5360
Cumulative monthly discharge		ML	25.24	47.35	78.94	118.74	165.91	229.10	275.94	292.72	314.27	339.29	368.89		Allowable annual total = 218 ML			
Report Date			06-Jun	06-Jul	02-Aug	06-Sep	13-Oct	06-Nov	09-Dec	03-Jan	05-Feb	05-Mar	03-Apr					

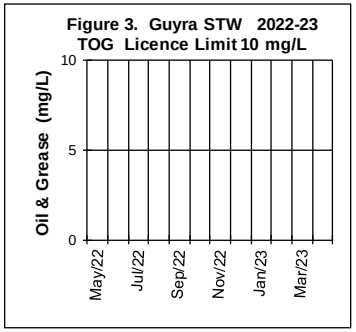
Abbreviations: EC (electrical conductivity); TSS (total suspended solids); BOD5 (5-day biochemical oxygen demand); TKN (total Kjeldahl nitrogen); NOx-N (nitrate + nitrite as nitrogen); Total N (total nitrogen); SRP (orthophosphate): TP (total phosphorus); TOG (total oil & grease); FC (faecal coliforms)

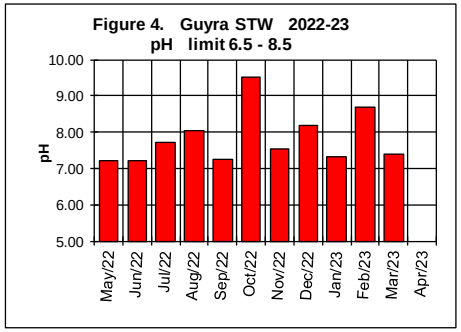
Table 2. Water Quality Monitoring data for licence period

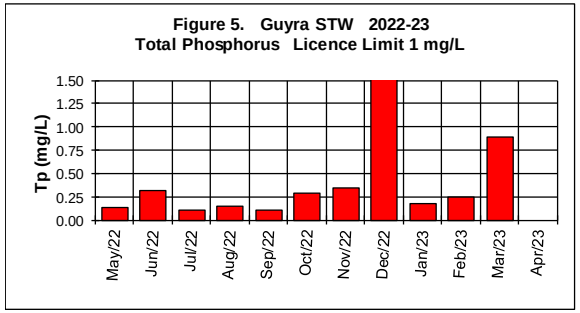
The top value on the Y-axis for TSS, BOD5 and TOG are the limits of the licence.

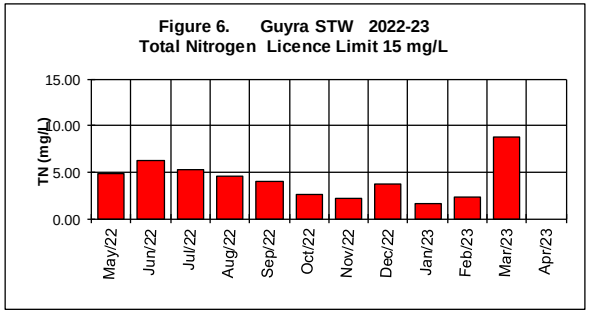


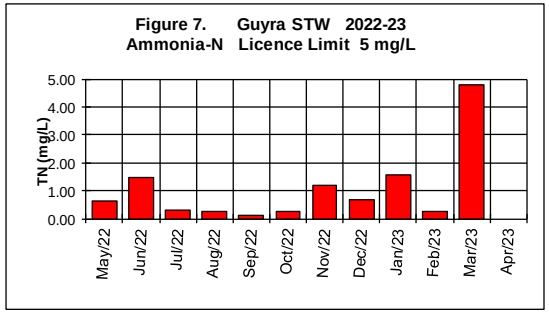












Note: Bypass for 1/3NOV22=1566 kL; Bypass for 12/13MAR23= 98 kL; 29/30MAR23 = 1255 kL; TP exceeded limit DEC22 (1.64 mg/L); pH exceeded limit FEB23 (8.69)