NARRABRI SEWAGE TREATMENT PLANT - MONTHLY POLLUTION MONITORING SUMMARY - JANUARY 2023

Environment Protection Licence No. 200 Anniversary date: 01 August

Version date: 13-Sep 2013

Narrabri Shire Council PO BOX 261 Narrabri NSW 2390

>219-1000ML Discharge (Small Plant)

QUALI	TY/PERFORMANCE MONIT	TORING														
EPA ID. No. 1 DISCHARGE TO WATERS EFFLUENT QUALITY & VOLUME MONITORING	Site Description	- Effluent Discha	arge Pipeline - to Na	ırrabri Creek -POIN	IT 1											
			No. of times measured Monthly Summary													
Pollutant	Unit of Measurement	Sampling Frequency	during the month for licence reporting	Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	50%ile Limit	50%ile Actual	90%ile Limit	90%ile 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	N/A	4.0	N/A	N/A	20.0	N/A	30.0	N/A	YES
Oil and Grease	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	13.0	N/A	N/A	10.0	N/A	N/A	N/A	NO
pH	рН	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	8.2	N/A	N/A	6.5-8.5	N/A	N/A	N/A	YES
Total Suspended Solids	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	15.0	45.0	N/A	N/A	N/A	N/A	N/A	YES
Faecal Coliforms	CFU/100ml	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	180.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate +Nitrite (oxidised nitrogen)	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	3.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	3.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (total)	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	9.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phosphorus (total)	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	4.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total dissolved solids	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total kieldahl Nitrogen	milligrams per litre	Each overflow event	N/A	NI/Δ	N/A	N/A	NI/A	N/A	6.0	N/A	N/A	N/A	NI/A	N/A	Ν/Δ	N/A

EPA ID. No. 2 DISCHARGE TO UTILISATION AREA EFFLUENT QUALITY & VOLUME MONITORING	Site Description - In	Site Description - Inlet to Pipeline - to transfer effluent to effluent irrigation federation farm - POINT 2														
				Monthly Summary												
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the month for licence reporting	Minimum	Mean Value	Median Value	Maximum	Actual	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within			
Biochemical Oxygen Demand	milligrams per litre	Monthly	1	-	-	-	- maximum	4	N/A	N/A	N/A	N/A	N/A			
aecal Coliforms	CFU per 100 mL	Monthly	1	-	-	-	-	180	N/A	N/A	N/A	N/A	N/A			
Total Suspended Solids	milligrams per litre	Monthly	1	-	-	-	-	15	N/A	N/A	N/A	N/A	N/A			
Calcium	milligrams per litre	Quarterly	1	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A			
Chloride	milligrams per litre	Quarterly	1	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A			
Conductivity	Micro siemens per centimetre	Monthly	1		-	-	-	1050	N/A	N/A	N/A	N/A	N/A			
Magnesium	milligrams per litre	Quarterly	1	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A			
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	-	-	-	-	3.22	N/A	N/A	N/A	N/A	N/A			
Nitrogen (ammonia)	milligrams per litre	Monthly	1	-	-	-	-	3.11	N/A	N/A	N/A	N/A	N/A			
Nitrogen (total)	milligrams per litre	Monthly	1	-	-	-	-	9.2	N/A	N/A	N/A	N/A	N/A			
Oil and Grease	milligrams per litre	Monthly	1		-	-	-	13	N/A	N/A	N/A	N/A	N/A			
рН	milligrams per litre	Monthly	1	-	-	-	-	8.2	N/A	N/A	N/A	N/A	N/A			
Phosphorus	milligrams per litre	Monthly	1	-		-	-	4.16	N/A	N/A	N/A	N/A	N/A			
Sodium	milligrams per litre	Quarterly	1	-		-	-	-	N/A	N/A	N/A	N/A	N/A			
Sodium Adsorption Ratio	Sodium adsorption ratio	Quarterly	1	-		-	-	-	N/A	N/A	N/A	N/A	N/A			
Total dissolved solids	milligrams per litre	Quarterly	1	-		-	-	-	N/A	N/A	N/A	N/A	N/A			
Total Kjeldahl as Nitrogen	milligrams per litre	Monthly	1	-	-	-	-	6	N/A	N/A	N/A	N/A	N/A			

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VOLUME MONITORING													
EPA ID. No. 3 INFLUENT VOLUME MONITORING	Site Descr	iption - Inlet to S	ewage Treatme	ent Works - POINT 3									
			No. of times measured during the month for licence reporting	Monthly Summary									
					Mean	Median	Maximum	Total	3DGM	3DGM	100%ile	Volume	Within
Unit of measurement	Sampling frequency	Method		Minimum	Value	Value	Value	Value	Limit	Actual	Limit	limit	Limits
Kilolitres per day	Continuous	In line instrument	31	1204	2132.580645	-	3249	66110	-	-	-	-	N/A

DEPTH MONITORING

EPA Id. No. 4 DEPTH MONITORING (LEVEL OF EFFLUENT IN STORMWATER BALANCING POND)	Site Des			n Basin -POINT 4								
			No. of times measured	Monthly Summary								
	Sampling Frequency	Method			Mean	Median		3DGM	3DGM	100%ile	100%ile	Within
Location / units				Minimum	Value	Value	Maximum	Limit	Actual	Limit	Actual	Limits
Storm pond level (m)	Daily	Inspection	31	0.6	0.603225806	-	0.7	-	-	-	-	N/A
Effluent pond level (m)	Daily	Inspection	31	1	1.103225806		1.2	-	-	-	-	N/A

Note: For pollutants with less than four samples measured during the monthly period see below for interpretation of summary tables: One required sample for licence reporting: Min, Mean, Median and Max values are all the exact data point Two required samples for licence reporting: Min and Max values are the two exact data points

Three required samples for licence reporting: Min, Median and Max values are the three exact data points

VOLUME MONITORING

Monthly Summary											
	Unit of	Sampling				Maximum	Actual total	Volume	Within		
Monitoring Point	Macauramant	Francis	No. of times measured during the month	Minimum	Mean		Monthly Volume (KL)	Limit Mg daily	Within Limits		
	Measurement	Frequency	No. of times measured during the month								
Point 1 - Wet Weather bypass to Narrabri Creek	megalitres per day	Daily (overflow only)	31	1317	2518.032258	6168	78059	20	YES		
Point 2 - Effluent Irrigation to Federation Farm	kL per day	Daily	31	3	552.7741935	1381	17136	N/A	N/A		

ASSESSABLE POLLUTANT - pollutant discharge during reporting period

	Yearly												
(TO BE ASSESSED AT THE END OF THE YEARLY PERIOD)													
ASSESSABLE POLLUTANT	Load Limit (kg) Per Year	Sampling	N			Mean	Maximum	Flow	Within				
ASSESSABLE FOLLUTANT		Frequency	No. of times measured during the mo	Minimum	Weali	Waxiiiiuiii	Limit	Limits					
BOD (Enclosed water)	14540	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Nitrogen (total) (enclosed water)	29080	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Oil and Grease (enclosed water)	7270	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Phosphorus (total) (enclosed water)	7270	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Total suspended solids (enclosed water)	37620	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				