NARRABRI SEWAGE TREATMENT PLANT - MONTHLY POLLUTION MONITORING SUMMARY -December 2021



Environment Protection Licence No. 200 Anniversary date: 01 August Version date: 13-Sep 2013

Licensee

Narrabri Shire Council PO BOX 261 Narrabri NSW 2390

DISCOVER THE POTENTIAL	
	>219-1000ML Discharge (Small Plant)
QUALITY/PERFORMANCE M	IONITORING
EPA ID. No. 1	Site Description - Effluent Discharge Pipeline
DISCHARGE TO WATERS	

EFFLUENT QUALITY & VOLUME MONITORING																
			No. of times measured				N									
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	7.0	N/A	N/A	20.0	N/A	30.0	N/A	N/A
Oil and Grease	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	10.0	N/A	N/A	10.0	N/A	N/A	N/A	N/A
pH	pH	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	8.5	N/A	N/A	6.5-8.5	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	N/A	30.0	45.0	N/A	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	CFU/100ml	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	2700.0	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	3.3	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	0.5	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	6.2	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	3.2	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 kjeldahl Nitrogen	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	3.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA ID. No. 2	Site Description - Inlet to Pipeline -	to transfer effluent to effluent in	rigation federation farm - P	OINT 2									
DISCHARGE TO UTILISATION AREA													
EFFLUENT QUALITY & VOLUME MONITORING													
		Monthly Summary											
	Unit of	Sampling			Mean	Median			3DGM	3DGM	100%ile	100%ile	Within
Pollutant	Measurement	Frequency		Minimum	Value	Value	Maximum	Actual	Limit	Actual	Limit	Actual	Limits
Biochemical Oxygen Demand	milligrams per litre	Monthly	1	-	-	-	-	7	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	CFU per 100 mL	Monthly	1	-	-	-	-	2700	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Monthly	1			-	-	30	N/A	N/A	N/A	N/A	N/A
Calcium	milligrams per litre	Quarterly	1		٠	-		N/A	N/A	N/A	N/A	N/A	N/A
Chloride	milligrams per litre	Quarterly	1		٠	-		N/A	N/A	N/A	N/A	N/A	N/A
Conductivity	Micro siemens per centimetre	Monthly	1		٠	-		676	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	N/A
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1		-	-	-	2.32	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	Monthly	1	-		-	-	0.54	N/A	N/A	N/A	N/A	N/A
Nitrogen (total)	milligrams per litre	Monthly	1	-	-	-	-	6.2	N/A	N/A	N/A	N/A	N/A
Oil and Grease	milligrams per litre	Monthly	1	-	-	-	-	10	N/A	N/A	N/A	N/A	N/A
pH	milligrams per litre	Monthly	1		-	-	-	8.5	N/A	N/A	N/A	N/A	N/A
Phosphorus	milligrams per litre	Monthly	1	-	-	-	-	3.19	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	N/A
Sodium Adsorption Ratio	Sodium adsorption ratio	Quarterly	1	-	-	-		N/A	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	N/A
Total Kieldahl as Nitrogen	milligrams per litre	Monthly	1					3.9	N/A	N/A	N/A	N/A	N/A

VOLUME MONITORING

EPA ID. No. 3 INFLUENT VOLUME MONITORING	Site Description - Inlet to Sewage	Site Description - Inlet to Sewage Treatment Works - POINT 3											
			No. of times measured during the month for licence reporting	Monthly Summary									
Note that are a second	Sampling frequency			Minimum	Mean Value	Median Value	Maximum Value	Actual Value	3DGM Limit	3DGM	100%ile Limit	Volume limit	Within Limits
Unit of measurement		Method		Minimum		value			Limit	Actual	Limit	limit	
Kilolitres per day	Continuous	In line instrument	30	0	2225.83871	-	6927	69001	-		-		N/A

DEPTH MONITORING

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EPA Id. No. 4	Site Description - Stormwater Dete	ntion Basin -POINT 4											
DEPTH MONITORING (LEVEL OF EFFLUENT													
IN STORMWATER BALANCING POND)													
			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	30	1.2	1.36	-	1.4			-	-	N/A	
Effluent pond level (m)	Daily	Inspection	30	1.1	1.316		1.4			-		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

VOLUME MONITORING														
	Monthly Summary													
	Unit of	Sampling					Actual total	Volume						
Monitoring Point	Camping			Minimum	Mean	Maximum	Monthly Volume	Limit Ma	Within Limits					
	Measurement	Frequency	No. of times measured during the month				Monthly Volume	LITTITE INIG						
Point 1 - Wet Weather bypass to River	megalitres per day	Daily (overflow only)	30	0	3199.612903	7,414	99,188		YES					
Point 2 - Effluent Irrigation to Federation Farm	kL per day	Daily	30	0	0	0	0	N/A	N/A					

ASSESSABLE POLITITANT - pollutant discharge during reporting period

Yearly												
(TO BE ASSESSED AT THE END OF THE YEARLY PERIOD)												
ASSESSABLE POLLUTANT	Load Limit (kg) Per Year	Sampling Frequency	No. of times measured de	Minimum	Mean	Maximum	Flow Limit	Within 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			