

MANILLA WASTEWATER TREATMENT PLANT - YEARLY SUMMARY FOR 2013/14

LICENCE PERIOD: 1st Feb 2013 - 31st Jan 2014

POINT 1 NOTE: Monitoring Frequency - Quarterly

Pollutant	Units	90th Percentile Concentration Limit	Monitoring Frequency	Number of Samples	Minimum Value	Maximum Value	Mean	Median	Exceedances (Yes / No)
TSS	mg/L	30	Quarterly	4	3	23	14.0	-	No
BOD	mg/L	20	Quarterly	4	4	13	8.0	-	No
Calcium	mg/L	-	Quarterly	4	17.0	28.1	21.6	-	-
Conductivity	uS/cm	-	Quarterly	4	750	920	810	-	-
Faecal Coliforms	CFU/100mL	-	Quarterly	4	<2	180	64	-	-
Magnesium	mg/L	-	Quarterly	4	11.0	23.1	16.3	-	-
Nitrite	mg/L	-	Quarterly	4	<0.1	0.1	<0.1	-	-
Nitrate	mg/L	-	Quarterly	4	<0.1	1.1	0.4	-	-
Ammonia	mg/L	-	Quarterly	3	0.30	4.08	1.85	-	-
Oil and Grease	mg/L	-	6 Monthly	2	<5	<5	<5	-	-
OC/OP	ug/L	-	Yearly	1	<PQL	<PQL	<PQL	-	-
pH	pH Units	-	Quarterly	4	7.9	9.0	8.5	-	-
Total Phosphorus	mg/L	-	Quarterly	4	1.70	2.54	2.09	-	-
Potassium	mg/L	-	Quarterly	4	18	24	22.0	-	-
Sodium	mg/L	-	Quarterly	4	107	146	122	-	-
SAR		-	Quarterly	4	3.61	6.23	4.81	-	-
TKN	mg/L	-	Quarterly	3	3.1	6.3	4.77	-	-

POINT 2 NOTE: Monitoring Frequency - Yearly

Pollutant	Units	90th Percentile Concentration Limit	Monitoring Frequency	Number of Samples	Minimum Value	Maximum Value	Mean	Median	Exceedances (Yes / No)
CEC	cm/kg	-	Yearly	1	13.5	13.5	13.5	13.5	-
Chloride	mg/kg	-	Yearly	1	70	70	70	70	-
Conductivity	uS/cm	-	Yearly	1	72	72	72	72	-
Ex. Calcium	mg/kg	-	Yearly	1	8.0	8.0	8.0	8.0	-
Ex. Magnesium	mg/kg	-	Yearly	1	4.1	4.1	4.1	4.1	-
Ex. Potassium	mg/kg	-	Yearly	1	0.3	0.3	0.3	0.3	-

Ex. Sodium	mg/kg	-	Yearly	1	1.0	1.0	1.0	1.0	-
Extractable Phos.	mg/kg	-	Yearly	1	4.7	4.7	4.7	4.7	-
Moisture Content	%	-	3 Yearly	1	13.4	13.4	13.4	13.4	-
Nitrate	mg/kg	-	Yearly	1	<1.0	<1.0	<1.0	<1.0	-
Ammonia	mg/kg	-	Yearly	1	<20	<20	<20	<20	-
Total Nitrogen	mg/kg	-	3 Yearly	-	-	-	-	-	-
pH	pH Units	-	Yearly	1	7.4	7.4	7.4	7.4	-
Total Phosphorus	mg/kg	-	3 Yearly	-	-	-	-	-	-
PSC	mg/kg	-	3 Yearly	-	-	-	-	-	-
SHC	mm/week	-	3 Yearly	-	-	-	-	-	-
SAR		-	Yearly	1	4.95	4.95	4.95	4.95	-

POINT 3,4,5,6 NOTE: Monitoring Frequency - Quarterly

Pollutant	Units	90th Percentile Concentration Limit	Monitoring Frequency	Number of Samples	Minimum Value	Maximum Value	Mean	Median	Exceedances (Yes / No)
Conductivity	uS/cm	-	Quarterly	0	DRY	DRY	DRY	DRY	-
Nitrate	mg/L	-	Yearly	0	DRY	DRY	DRY	DRY	-
Ammonia	mg/L	-	Yearly	0	DRY	DRY	DRY	DRY	-
Total Nitrogen	mg/L	-	Yearly	0	DRY	DRY	DRY	DRY	-
Orthophosphate	mg/L	-	Yearly	0	DRY	DRY	DRY	DRY	-
pH	pH Units	-	Quarterly	0	DRY	DRY	DRY	DRY	-
Total Phosphorus	mg/L	-	Yearly	0	DRY	DRY	DRY	DRY	-
Standing Water Level	m	-	Quarterly	0	DRY	DRY	DRY	DRY	-

POINT 7 NOTE: Monitoring Frequency - Each Overflow Event

Pollutant	Units	90th Percentile Concentration Limit	Monitoring Frequency	Number of Samples	Minimum Value	Maximum Value	Mean	Median	Exceedances (Yes / No)
BOD	mg/L	-	As above	0	-	-	-	-	-
Total Nitrogen	mg/L	-	As above	0	-	-	-	-	-
Oil and Grease	mg/L	-	As above	0	-	-	-	-	-
Total Phosphorus	mg/L	-	As above	0	-	-	-	-	-
TSS	mg/L	-	As above	0	-	-	-	-	-