

MANILLA WASTEWATER TREATMENT PLANT - YEARLY SUMMARY FOR 2012/13

LICENCE PERIOD: 1st Feb 2012 - 31st Jan 2013

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	8	20	13.0	-	No
BOD	mg/L	20	Quarterly	4	4	12	7.0	-	No
Calcium	mg/L	-	Quarterly	4	13	25	19.3	-	-
Conductivity	uS/cm	-	Quarterly	4	470	820	643	-	-
Faecal Coliforms	CFU/100mL	-	Quarterly	4	<2	62	25	-	-
Magnesium	mg/L	-	Quarterly	4	7	16	11.3	-	-
Nitrite	mg/L	-	Quarterly	4	0.05	0.10	0.08	-	-
Nitrate	mg/L	-	Quarterly	4	<0.1	0.77	0.63	-	-
Ammonia	mg/L	-	Quarterly	4	0.23	5.40	2.50	-	-
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	8.0	8.4	8.2	-	-
Total Phosphorus	mg/L	-	Quarterly	4	2.10	2.83	2.48	-	-
Potassium	mg/L	-	Quarterly	4	16	24	19.3	-	-
Sodium	mg/L	-	Quarterly	4	66	120	92	-	-
SAR		-	Quarterly	4	3.40	4.61	4.11	-	-
TKN	mg/L	-	Quarterly	4	3.8	5.7	4.68	-	-

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	11.6	11.6	11.6	11.6	-
Chloride	mg/kg	-	Yearly	1	40	40	40	40	-
Conductivity	uS/cm	-	Yearly	1	28	28	28	28	-
Ex. Calcium	mg/kg	-	Yearly	1	11.2	11.2	11.2	11.2	-
Ex. Magnesium	mg/kg	-	Yearly	1	0.2	0.2	0.2	0.2	-
Ex. Potassium	mg/kg	-	Yearly	1	29.8	29.8	29.8	29.8	-

Ex. Sodium	mg/kg	-	Yearly	1	4.8	4.8	4.8	4.8	-
Extractable Phos.	mg/kg	-	Yearly	1	17.7	17.7	17.7	17.7	-
Moisture Content	%	-	3 Yearly	1	13.3	13.3	13.3	13.3	-
Nitrate	mg/kg	-	Yearly	1	7.6	7.6	7.6	7.6	-
Ammonia	mg/kg	-	Yearly	1	<20	<20	<20	<20	-
Total Nitrogen	mg/kg	-	3 Yearly	1	1180	1180	1180	1180	-
pH	pH Units	-	Yearly	1	7.3	7.3	7.3	7.3	-
Total Phosphorus	mg/kg	-	3 Yearly	1	498	498	498	498	-
PSC	mg/kg	-	3 Yearly	1	1300	1300	1300	1300	-
SHC	mm/week	-	3 Yearly	1	0.21	0.21	0.21	0.21	-
SAR		-	Yearly	1	1.81	1.81	1.81	1.81	-

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	1	10	10	10	10	-
Total Nitrogen	mg/L	-	As above	1	3.3	3.3	3.3	3.3	-
Oil and Grease	mg/L	-	As above	1	<5	<5	<5	<5	-
Total Phosphorus	mg/L	-	As above	1	2.58	2.58	2.58	2.58	-
TSS	mg/L	-	As above	1	22	22	22	22	-