

MANILLA WASTEWATER TREATMENT PLANT - YEARLY SUMMARY FOR 2017/18

LICENCE PERIOD: 1st Feb 2017 - 31st Jan 2018

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	9	70	26.0	-	Yes
BOD	mg/L	20	Quarterly	4	5	12	7.0	-	No
Calcium	mg/L	-	Quarterly	4	11	19	15	-	-
Conductivity	uS/cm	-	Quarterly	4	660	700	683	-	-
Faecal Coliforms	CFU/100mL	-	Quarterly	4	2	4	3	-	-
Magnesium	mg/L	-	Quarterly	4	6	16	11	-	-
Nitrite	mg/L	-	Quarterly	4	<0.1	0.2	0.17	-	-
Nitrate	mg/L	-	Quarterly	4	<0.1	3.0	0.88	-	-
Ammonia	mg/L	-	Quarterly	4	<0.1	2.4	1.7	-	-
Oil and Grease	mg/L	-	6 Monthly	4	<5	<5	<5	-	-
OC/OP	ug/L	-	Yearly	1	<PQL	<PQL	<PQL	-	-
pH	pH Units	-	Quarterly	4	8.2	9.7	8.9	-	-
Total Phosphorus	mg/L	-	Quarterly	4	2.18	3.12	2.57	-	-
Potassium	mg/L	-	Quarterly	4	18	22	20	-	-
Sodium	mg/L	-	Quarterly	4	82	118	102	-	-
SAR		-	Quarterly	4	2.1	3.8	3.1	-	-
TKN	mg/L	-	Quarterly	4	4.2	5.7	5.1	-	-

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	10.2	10.2	10.2	10.2	-
Chloride	mg/kg	-	Yearly	1	70	70	70	70	-
Conductivity	uS/cm	-	Yearly	1	66	66	66	66	-
Ex. Calcium	mg/kg	-	Yearly	1	5.9	5.9	5.9	5.9	-
Ex. Magnesium	mg/kg	-	Yearly	1	2.9	2.9	2.9	2.9	-
Ex. Potassium	mg/kg	-	Yearly	1	1.0	1.0	1.0	1.0	-

Ex. Sodium	mg/kg	-	Yearly	1	0.4	0.4	0.4	0.4	-
Extractable Phos.	mg/kg	-	Yearly	1	42	42	42	42	-
Moisture Content	%	-	3 Yearly	1	11.5	11.5	11.5	11.5	-
Nitrate	mg/kg	-	Yearly	1	0.8	0.8	0.8	0.8	-
Ammonia	mg/kg	-	Yearly	1	<20	<20	<20	<20	-
Total Nitrogen	mg/kg	-	3 Yearly	-	-	-	-	-	-
pH	pH Units	-	Yearly	1	7.7	7.7	7.7	7.7	-
Total Phosphorus	mg/kg	-	3 Yearly	-	-	-	-	-	-
PSC	mg/kg	-	3 Yearly	-	-	-	-	-	-
SHC	mm/week	-	3 Yearly	-	-	-	-	-	-
SAR		-	Yearly	1	4.82	4.82	4.82	4.82	-

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	-	-	-	-	-