

Composite Effluent Quality Monitoring Results (1-year Operation of TSTP)

Date	Monitoring Station	Replicate	Temperature*	pH	DO Saturation	DO	Salinity	Turbidity	Suspended Solids	Ammonia Nitrogen	Total Nitrogen	Total Inorganic Nitrogen	Total Phosphorus	Biochemical Oxygen Demand [#]	E.Coli	Biochemical Oxygen Demand [^]
			°C		%	mg/L	ppt	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	cfu/100ml
7/22/2020	Effluent	1	5.5	7.6	80.5	10.10	0.48	0.9	2	0.07	9.8	8.55	1.06	15	Not Detected	9
		2	5.5	7.6	80.0	10.05	0.48	0.9	-	-	-	-	-	-	-	-
7/23/2020	Effluent	1	4.9	7.4	86.3	9.81	0.43	2.3	6	1.1	12.8	10.9	1.38	20	Not Detected	14
		2	4.9	7.4	85.9	9.75	0.43	2.3	-	-	-	-	-	-	-	-
7/24/2020	Effluent	1	5.1	7.8	90.1	9.45	0.37	2.2	5	0.56	15.5	15.2	2.16	24	16	14
		2	5.1	7.8	88.3	9.32	0.37	2.0	-	-	-	-	-	-	-	-
7/25/2020	Effluent	1	4.6	7.4	88.2	9.60	0.33	3.1	9	1.85	11.5	10.2	2.27	9	71	3
		2	4.6	7.4	87.3	9.50	0.33	3.2	-	-	-	-	-	-	-	-
7/26/2020	Effluent	1	4.9	7.4	90.0	9.02	0.34	2.6	4	2.54	12.4	11.4	2.58	21	28	10
		2	4.9	7.4	88.9	8.91	0.34	2.6	-	-	-	-	-	-	-	-
7/27/2020	Effluent	1	7.7	7.4	83.0	9.90	0.21	2.6	4	2.02	13.7	13	2.45	15	53	12
		2	7.7	7.4	82.5	9.85	0.21	2.6	-	-	-	-	-	-	-	-
7/28/2020	Effluent	1	6.2	8.1	80.6	9.97	0.28	2.0	5	0.39	13.5	11.7	2.25	19	51	12
		2	6.2	8.1	80.0	9.90	0.28	2.1	-	-	-	-	-	-	-	-
7/29/2020	Effluent	1	7.6	8.0	86.7	10.34	0.27	2.5	5	1.24	11.9	10.5	2.18	18	42	9
		2	7.6	8.0	84.6	10.10	0.27	2.4	-	-	-	-	-	-	-	-
7/30/2020	Effluent	1	7.4	8.4	76.1	9.21	0.27	2.7	4	2.04	13.8	12.5	2.67	12	18	8
		2	7.4	8.4	77.1	9.39	0.27	2.6	-	-	-	-	-	-	-	-
7/31/2020	Effluent	1	8.4	7.8	80.6	9.19	0.38	2.9	3	1.64	12.8	11.2	2.05	8	62	7
		2	8.4	7.8	80.3	9.20	0.38	3.1	-	-	-	-	-	-	-	-

Action Level	20	-	28.6	-	3.3	-	664	13.3
Limit Level	40	-	57.1	-	6.6	-	996	26.6

A 24-hour flow-weighted composite effluent sample was collected and mixed.

* Effluent sample was collected by refrigerated autosampler. The collected samples were kept in low temperature during 24-hr sampling period.

The effluent samples were tested of total biochemical oxygen demand which composed of both carbonaceous oxygen demand (organic BOD₅) and nitrogenous oxygen demand.

For secondary effluent sample, chemical inhibition of nitrogenous demand will be used in the BOD₅ test for effluent samples to provide a more direct and reliable measures the concentration of the biodegradable carbonaceous materials.

^ As such, as discussed with DSD, re-measurement of BOD₅ of samples by adding nitrification inhibitor were conducted and presented in the table.

Action Level - Value presented in bold

Limit Level - Value presented in bold and underlined