

Appendix 4B-6: STA-5 Water Quality Summary Statistics, Water Year 2003

Table 1. Geometric means and standard errors for water quality parameters monitored at Stormwater Treatment Area 5 (STA-5) sampling stations during WY2003.

		STA Inflow	North In	Cell 1A Out	North Out	South In	Cell 2A Out	South Out	Avg. Outflow
TP (µg/L)	Mean	156	139	109	141	173	92	99	120
	SE	30	17	12	23	42	8	156	19
SRP (µg/L)	Mean	67	56	73	88	78	78	67	81
	SE	11	8	10	13	13	< 1	11	12
TDP (µg/L)	Mean	79	68	85	106	91	87	85	96
	SE	11	9	10	13	14	< 1	11	12
TKN (mg/L)	Mean	1.377	1.454	1.522	1.742	1.318	1.271	1.310	1.526
	SE	0.063	0.068	0.080	0.093	0.060	0.060	0.047	0.070
NH ₄ -N (mg/L)	Mean	0.057	0.065	0.069	0.117	0.048	0.021	0.023	0.069
	SE	0.017	0.019	0.020	0.042	0.015	0.020	0.006	0.024
NO _x -N (mg/L)	Mean	0.035	0.042	0.015	0.010	0.028	0.007	0.008	0.009
	SE	0.010	0.013	< 0.001	0.007	0.007	< 0.001	0.004	0.005
Ca [§] (mg/L)	Mean	72.7	72.7	58.0	44.8	72.7	68.1	83.6	64.2
	SE	2.4	2.8	2.5	3.7	2.0	2.1	3.0	3.3
Alkalinity (mg CaCO ₃ /L)	Mean	173.9	161.2	151.1	156.3	186.7	201.4	191.7	174.0
	SE	11.3	11.7	9.3	6.4	10.8	7.0	7.8	7.1
Cl (mg/L)	Mean	45.9	47.7	55.7	48.3	44.1	47.7	44.5	46.4
	SE	3.0	4.0	4.8	4.3	2.1	2.4	3.1	3.7

Notes:

TP = total phosphorus; SRP = soluble reactive phosphorus; TDP = total dissolved phosphorus; TKN = total Kjeldahl nitrogen; NH₄-N = ammonia nitrogen; NO_x-N = nitrite+nitrate nitrogen; Ca = calcium; and Cl = chloride.

[§]Statistics based on only three samples.