

Appendix A – Water Quality Sampling Concentration Data

George Richardson Pond

Date	Pond Inlet (mg/L)				Red Sand Filter In (mg/L)				Red Sand Filter Out (mg/L)			
	Total Phosphorus	Ortho phosphorus	Total Suspended Solids	Chloride	Total Phosphorus	Ortho phosphorus	Total Suspended Solids	Chloride	Total Phosphorus	Ortho phosphorus	Total Suspended Solids	Chloride
2012												
July 26 (Grab)	0.054	0.014	10.00	130.00	0.061	0.007	21.00	59.00	0.130	0.010		82.00
July 27 (Grab)									0.077	0.007		68.00
Aug 9 (Grab)	0.056	0.020	12.00	36.00	0.053	0.009	10.00	93.00	0.034	0.009		85.00
Sept 14 (Grab)					0.120	0.006	51.00	71.00	0.033	0.004	67.00	58.00
Nov 1 (Grab)	0.033	0.025	7.00	110.00	0.061	0.011	16.00	80.00			1.00	130.00
Dec 2 (Rise)	0.540	0.041	540.00	1700.00	0.097	0.021	66.00	1100.00				
Dec 2 (Peak)	0.300	0.043	210.00	870.00	0.080	0.023	41.00	1300.00	<0.020	0.007	12.00	980.00
Dec 2 (Fall)	0.073	0.036	64.00	290.00	0.057	0.024	35.00	1300.00				
Dec 4 (Rise)	0.880	0.003	870.00	250.00	0.120	0.006	41.00	1200.00	<0.100	0.004	8.00	1200.00
Dec 4 (Peak)	0.760	0.002	1000.00	360.00								
Dec 4 (Fall)	0.220	0.003	170.00	190.00	<0.100	0.006	26.00	1200.00				

Colony Trail 2012

Date	Outlet (mg/L)			
	Total Phosphorus	Ortho phosphorus	Total Suspended Solids	Chloride
May 3 (Peak 1)	0.310	0.006	250.00	13.00
May 3 (Fall 1)	0.190	0.022	64.00	44.00
May 3 (Peak 2)	0.180	0.027	110.00	11.00
May 3 (Fall 2)	0.120	0.025	38.00	17.00
May 8 (Rise)	0.140	0.018	28.00	73.00
May 8 (Peak)	0.140	0.024	57.00	35.00
May 8 (Fall)	0.072	0.026	9.00	39.00
May 9 (Peak)	0.190	0.029	65.00	45.00
May 9 (Fall)	0.150	0.036	40.00	41.00
May 9 (Rise 2)	0.120	0.021	26.00	66.00
May 9 (Peak 2)	0.120	0.026	25.00	43.00
May 9 (Fall 2)	0.082	0.028	16.00	43.00
May 28 (Peak)	0.830	0.009	640.00	32.00
May 28 (Fall)	0.430	0.120	110.00	43.00
June 1 (Rise)	0.350	0.097	35.00	82.00
June 1 (Fall)	0.093	0.035	22.00	31.00
June 9 (Event 1)	0.200	0.055	39.00	33.00
June 9 (Event 2)	0.120	0.043	41.00	33.00
June 21 (Event 1)	0.200	0.008	71.00	48.00
June 21 (Event 2)	0.140	0.026	44.00	30.00
July 22 (Event)	0.170	0.030	26.00	60.00
July 25 (Event 1)	0.150	0.013	32.00	49.00
July 25 (Event 2)	0.130	0.025	49.00	11.00
August 8 (Event)	0.087	0.021	17.00	20.00
August 8 (Rise)	0.120	0.026	82.00	22.00
August 8 (Peak)	0.180	0.032	110.00	3.00
August 8 (Fall)	0.140	0.064	27.00	15.00
August 9 (Rise 1)	0.120	0.043	28.00	90.00
August 9 (Fall 1)	0.280	0.220	12.00	33.00
August 9 (Rise 2)	0.190	0.140	19.00	34.00
August 9 (Fall 2)	0.130	0.099	7.00	31.00
Sept 18 (Rise)	0.210	0.095	46.00	14.00
Sept 18 (Peak)	0.110	0.046	37.00	5.00
Sept 18 (Fall)	0.077	0.042	11.00	14.00

Colony Trail 2013

Date	Inlet (mg/L)				Outlet (mg/L)			
	Total Phosphorus	Ortho phosphorus	Total Suspended Solids	Chloride	Total Phosphorus	Ortho phosphorus	Total Suspended Solids	Chloride
Sept 21 (Rise / Peak)	0.130	0.085	15.00	15.00	0.087	0.029	18.00	45.00
Sept 21 (Fall)	0.070	0.059	3.00	69.00	0.072	0.040	10.00	34.00
Oct 4 (Rise / Peak)	0.200	0.170	26.00	110.00	0.006	0.003	3.00	190.00
Oct 4 (Fall)	0.290	0.240	22.00	42.00	0.004	<0.002	1.00	190.00
Oct 4 (Fall 2)	0.300	0.190	19.00	38.00				
Oct 16 (Rise / Peak)	0.310	0.005	13.00	34.00				
Oct 16 (Fall)	0.220	0.140	4.00	68.00				
Oct 16 (Peak)	0.300	0.210	8.00	30.00				
Oct 16 (Fall 2)	0.200	0.150	<2.00	65.00				
Oct 16 (Event)					<0.002	<0.002	<1.00	140.00
Oct 17 (Rise / Peak)	0.29	0.069	18.00	36.00	0.080	0.034	10.00	99.00
Oct 17 (Fall)	0.200	0.130	9.00	8.00				
Oct 26 (Rise / Peak)	0.370	0.270	7.00	67.00	0.014	0.013	4.00	130.00
Oct 31 (Event)	0.520	0.240	16.00	44.00				
Oct 31 (Rise / Peak)	0.350	0.190	25.00	38.00				
Oct 31 (Fall)	0.17	0.097	8.00	120.00	0.140	0.066	4.00	100.00
Nov 1 (Fall)	0.024	0.006	1.00	140.00	0.080	0.036	4.00	110.00
Nov 2 (Event)	0.055	0.034	2.00	130.00	0.056	0.027	3.00	120.00
Nov 9 (Fall)	0.660	0.320	28.00	81.00	0.014	0.010	<1.00	160.00

Lincoln Pond 2012

Date	Inlet (mg/L)				Outlet (mg/L)			
	Total Phosphorus	Ortho phosphorus	Total Suspended Solids	Chloride	Total Phosphorus	Ortho phosphorus	Total Suspended Solids	Chloride
June 1 (Event 1)	0.140	0.064	22.00	49.00	0.085	0.010	21.00	170.00
June 1 (Event 2)					0.063	0.008	18.00	130.00
June 9 (Fall 1)	0.270	0.042	77.00	89.00	0.074	0.002	25.00	150.00
June 9 (Fall 2)	0.076	0.003	88.00	110.00	0.028	0.003	26.00	160.00
June 12 (Fall)	0.043	0.014	11.00	120.00				
June 19 (Fall)	0.029	0.003	14.00	130.00	0.031	0.003	12.00	140.00
June 21 (Rise/Peak)	0.200	0.006	190.00	10.00	0.055	0.006	17.00	140.00
June 21 (Fall)	0.040	0.019	5.00	120.00				
July 22 (Rise)	0.140	0.006	110.00	2.00	0.260	0.004	240.00	130.00
July 22 (Peak)	0.130	0.066	16.00	8.00	0.110	0.005	88.00	170.00
July 22 (Fall)	0.036	0.030	2.00	130.00	0.058	0.005	23.00	140.00
July 26 (Event 1)	0.045	0.018	11.00	80.00	0.050	0.004	16.00	130.00
July 26 (Event 2)					0.035	0.004	10.00	45.00
July 27 (Fall)	0.023	0.019	2.00	130.00				
July 31 (Rise)	0.062	0.006	15.00	9.00	0.100	0.011	26.00	99.00
July 31 (Peak)	0.058	0.024	15.00	20.00	0.063	0.011	9.00	140.00
July 31 (Fall)	0.020	0.016	2.00	120.00	0.040	0.010	4.00	140.00

Lincoln Pond 2013

Date	Inlet (mg/L)				Outlet (mg/L)			
	Total Phosphorus	Ortho phosphorus	Total Suspended Solids	Chloride	Total Phosphorus	Ortho phosphorus	Total Suspended Solids	Chloride
May 22 (Rise/Peak)	0.041	0.005	26.00	140.00	0.037/0.033	0.008/0.007	13.00/13.00	120.00/94.00
May 22 (Fall)	0.012	0.004	4.00	150.00	0.033	0.007	14.00	120.00
July 5 (Rise)	0.240	0.013	350.00	81.00				
July 5 (Peak)					0.150	0.024	280.00	120.00
July 5 (Fall)					0.052	0.023	25.00	120.00
July 7 (Rise/Peak)	0.061	0.006	91.00	40.00				
July 7 (Event)					0.075	0.007	140.00	62.00
July 11 (Grab)	<0.002	0.005	<1.00	150.00	<0.02	0.012	<1.00	160.00
July 23 (Rise)					0.210	<0.004	120.00	80.00
July 23 (Peak)	0.087	0.005	91.00	140.00	<0.02	0.004	36.00	140.00
July 23 (Fall)	0.044	0.005	5.00	150.00	0.018	0.004	15.00	150.00
July 27 (Event 1)	0.044	0.023	5.00	130.00	0.012	0.005	6.00	130.00
July 27 (Event 2)	0.028	0.015	8.00	140.00	0.015	<0.002	9.00	150.00
Aug 1 (Rise)					0.012	0.004	8.00	140.00
Aug 1 (Fall)					0.070	0.0015	30.00	130.00
Aug 1 (Event)					0.055	0.015	33.00	73.00
Aug 6 (Grab)	0.003	0.004	<1.00	160.00	0.011	0.006	2.00	150.00
Aug 7 (Rise/Peak)	0.016	0.003	3.00	150.00	0.004	<0.002	<1.00	140.00
Aug 7 (Fall)	0.003	0.002	1.00	160.00	0.003	0.002	<1.00	140.00
Sept 11 (Event)					0.005	0.003	1.00	150.00
Sept 11 (Mixed)					0.007	0.005	2.00	110.00
Sept 11 (Neg)					0.040	0.005	29.00	
Sept 12 (Grab)	0.024	0.004	2.00	76.00	0.012	0.005	<1.00	89.00