

## Appendix E

Historical Influent Flow and Load Summary



Table 1 – 2014 Influent Flows and Loads Summary

Month	2014 Birch Pond Flow and Load					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	---	---	---	---	---	---
February	---	---	---	---	---	---
March	---	---	---	---	---	---
April	---	---	---	---	---	---
May	---	---	---	---	---	---
June	---	---	---	---	---	---
July	0.188	0.147	0.107	91.6	97.1	4.7
August	0.106	0.127	0.163	205.4	314.9	4.2
September	0.11	0.137	0.166	ND	ND	ND
October	0.096	0.119	0.135	ND	ND	ND
November	0.055	0.087	0.122	173.6	276.1	4.8
December	0.061	0.094	0.134	184.2	74.9	4.8
Yearly Avg:	---	0.118	---	163.7	190.8	4.6
Peak Month:	---	0.147	---	---	---	---
Min Sample:	0.055	---	---	91.6	74.9	4.2
Max Sample:	---	---	0.166	205.4	314.9	4.8

Month	2014 Golf Pond Flow and Load					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	---	---	---	---	---	---
February	---	---	---	---	---	---
March	---	---	---	---	---	---
April	---	---	---	---	---	---
May	---	---	---	---	---	---
June	---	---	---	---	---	---
July	0.148	0.184	0.256	83.9	167.3	5.7
August	0.131	0.167	0.275	374.4	201.7	8.1
September	0.141	0.177	0.241	290.3	118.2	6.6
October	0.132	0.153	0.173	297.1	164.5	8.7
November	0.122	0.240	0.272	249.9	166.7	9.0
December	0.137	0.163	0.232	282.0	205.6	10.2
Yearly Avg:	---	0.181	---	262.9	170.7	8.0
Peak Month:	---	0.240	---	---	---	---
Min Sample:	0.122	---	---	83.9	118.2	5.7
Max Sample:	---	---	0.275	374.4	205.6	10.2

Table 1 (Continued) – 2014 Influent Flows and Loads Summary

Month	2014 Combined Flow and Loads					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	---	---	---	---	---	---
February	---	---	---	---	---	---
March	---	---	---	---	---	---
April	---	---	---	---	---	---
May	---	---	---	---	---	---
June	---	---	---	---	---	---
July	0.254	0.331	0.444	423.4	442.9	13.8
August	0.242	0.294	0.415	466.2	280.5	15.0
September	0.258	0.314	0.407	538.1	405.7	13.9
October	0.232	0.272	0.303	433.8	382.3	16.1
November	0.190	0.240	0.272	533.6	496.2	17.4
December	0.213	0.257	0.353	665.8	539.2	18.0
Yearly Avg:	---	0.285	---	510.1	424.5	15.7
Peak Month:	---	0.331	---	---	---	---
Min Sample:	0.19	---	---	423.4	280.5	13.8
Max Sample:	---	---	0.444	665.8	539.2	18.0

Table 2 – 2015 Influent Flows and Loads Summary

Month	2015 Birch Pond Flow and Load					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	0.050	0.069	0.098	154.8	170.1	3.8
February	0.064	0.079	0.109	160.3	199.9	4.7
March	0.088	0.107	0.124	208.4	250.3	6.3
April	0.081	0.107	0.126	263.9	282.8	5.7
May	0.088	0.118	0.269	354.1	691.5	6.9
June	0.073	0.118	0.278	249.4	283.8	3.8
July	0.044	0.149	0.252	281.6	118.9	7.1
August	0.116	0.132	0.148	229.4	136.4	5.5
September	0.106	0.119	0.131	286.8	109.5	5.6
October	0.100	0.120	0.153	287.0	136.1	5.8
November	0.081	0.121	0.189	296.5	111.3	6.2
December	0.110	0.134	0.151	326.2	204.5	4.9
Yearly Avg:	---	0.114	---	284.6	136.1	5.9
Peak Month:	---	0.149	---	---	---	---
Min Sample:	0.044	---	---	229.4	109.5	4.9
Max Sample:	---	---	0.278	326.2	204.5	7.1

Table 2 (Continued) – 2015 Influent Flows and Loads Summary

Month	2015 Golf Pond Flow and Load					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	0.139	0.155	0.172	383.3	235.6	10.1
February	0.132	0.157	0.185	273.5	182.4	11.4
March	0.135	0.167	0.204	325.2	246.0	11.1
April	0.154	0.176	0.198	401.8	256.5	12.4
May	0.151	0.226	0.819	616.7	470.8	22.9
June	0.183	0.243	0.879	472.4	248.3	6.7
July	0.173	0.289	0.686	428.1	244.0	13.5
August	0.154	0.186	0.229	370.1	245.6	8.4
September	0.126	0.156	0.175	282.6	172.1	9.1
October	0.127	0.153	0.300	649.4	405.7	8.9
November	0.144	0.206	0.689	348.8	128.1	12.1
December	0.148	0.148	0.148	396.7	253.2	8.0
Yearly Avg:	—	0.188	—	412.6	241.5	10.0
Peak Month:	—	0.289	—	—	—	—
Min Sample:	0.126	—	—	282.6	128.1	8.0
Max Sample:	—	—	0.879	649.4	405.7	13.5

Month	2015 Combined Flow and Loads					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	0.197	0.225	0.261	538.1	405.7	13.9
February	0.196	0.236	0.279	433.8	382.3	16.1
March	0.241	0.274	0.313	533.6	496.2	17.4
April	0.236	0.283	0.320	665.8	539.2	18.0
May	0.244	0.343	1.087	970.8	1,162.3	29.8
June	0.264	0.361	1.157	721.8	532.1	10.5
July	0.217	0.438	0.937	709.7	362.9	20.6
August	0.274	0.318	0.358	599.6	382.0	13.9
September	0.237	0.275	0.303	569.4	281.6	14.6
October	0.233	0.273	0.453	936.4	541.8	14.7
November	0.234	0.327	0.878	645.3	239.5	18.4
December	0.262	0.322	0.352	722.9	457.7	13.0
Yearly Avg:	—	0.306	—	697.2	377.6	15.8
Peak Month:	—	0.438	—	—	—	—
Min Sample:	0.196	—	—	569.4	239.5	13.0
Max Sample:	—	—	1.157	936.4	541.8	20.6

Table 3 – 2016 Influent Flows and Loads Summary

Month	2016 Birch Pond Flow and Load					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	0.094	0.112	0.135	244.5	373.2	5.8
February	0.090	0.109	0.140	387.5	142.0	6.6
March	0.000	0.087	0.146	205.0	119.2	4.1
April	0.000	0.000	0.000	0.0	0.0	0.0
May	0.000	0.046	0.124	83.1	51.1	2.4
June	0.075	0.114	0.148	206.3	127.2	6.8
July	0.066	0.142	0.271	258.1	159.7	9.6
August	0.083	0.132	0.301	240.8	149.4	10.0
September	0.134	0.330	0.457	606.0	376.9	27.9
October	0.082	0.155	1.133	300.7	114.8	6.0
November	0.084	0.190	1.434	575.8	346.7	6.7
December	0.080	0.112	0.154	195.4	199.7	4.0
Yearly Avg:	—	0.127	—	362.8	224.5	10.7
Peak Month:	—	0.330	—	—	—	—
Min Sample:	0	—	—	195.4	114.8	4.0
Max Sample:	—	—	1.434	606.0	376.9	27.9

Month	2016 Golf Pond Flow and Load					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	0.144	0.173	0.194	435.6	264.1	10.0
February	0.137	0.174	0.460	391.2	171.3	8.8
March	0.149	0.224	0.407	662.1	507.6	12.0
April	0.293	0.337	0.402	630.6	442.2	18.2
May	0.143	0.251	0.352	471.6	331.3	15.6
June	0.146	0.195	0.447	368.3	259.3	13.8
July	0.151	0.260	1.134	493.2	347.8	20.5
August	0.175	0.259	1.002	493.3	348.5	22.6
September	0.000	0.068	0.360	129.7	91.8	6.5
October	0.169	0.196	0.253	372.1	133.9	6.7
November	0.150	0.191	0.308	382.3	164.3	8.0
December	0.159	0.159	0.159	320.8	312.5	7.7
Yearly Avg:	—	0.207	—	365.2	233.1	12.0
Peak Month:	—	0.337	—	—	—	—
Min Sample:	0	—	—	129.7	91.8	6.5
Max Sample:	—	—	1.134	493.3	348.5	22.6

Table 3 (Continued) – 2016 Influent Flows and Loads Summary

Month	2016 Combined Flow and Loads					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	0.252	0.285	0.320	680.1	637.3	15.7
February	0.231	0.283	0.600	778.7	313.3	15.4
March	0.256	0.306	0.407	867.0	626.8	16.1
April	0.293	0.337	0.402	630.6	442.2	18.2
May	0.218	0.297	0.358	554.7	382.4	18.0
June	0.221	0.309	0.587	574.6	386.5	20.6
July	0.217	0.402	1.405	751.3	507.5	30.2
August	0.258	0.390	1.303	734.1	497.9	32.6
September	0.348	0.397	0.548	735.7	468.7	34.4
October	0.266	0.350	1.315	672.8	248.7	12.7
November	0.252	0.382	1.698	958.0	511.0	14.6
December	0.240	0.309	0.374	516.1	512.2	11.6
Yearly Avg:	—	0.337	—	728.0	457.7	22.7
Peak Month:	—	0.402	—	—	—	—
Min Sample:	0.217	—	—	516.1	248.7	11.6
Max Sample:	—	—	1.698	958.0	512.2	34.4

Table 4 – 2017 Influent Flows and Loads Summary

Month	2017 Birch Pond Flow and Load					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	0.071	0.093	0.114	228.7	289.3	3.5
February	0.098	0.152	1.125	360.5	296.4	5.6
March	0.109	0.127	0.149	237.3	148.7	4.2
April	0.117	0.132	0.174	283.8	146.7	6.3
May	0.124	0.157	0.275	249.2	68.2	8.0
June	0.102	0.117	0.136	196.6	115.6	5.2
July	0.064	0.106	0.158	173.1	383.1	2.7
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Yearly Avg:	—	0.126	—	173.1	383.1	2.7
Peak Month:	—	0.157	—	—	—	—
Min Sample:	0.064	—	—	173.1	383.1	2.7
Max Sample:	—	—	1.125	173.1	383.1	2.7

Table 4 (Continued) – 2017 Influent Flows and Loads Summary

Month	2017 Golf Pond Flow and Load					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	0.146	0.179	0.207	336.1	1,108.7	8.4
February	0.145	0.169	0.199	371.5	1,271.5	9.5
March	0.162	0.185	0.221	352.2	227.5	8.9
April	0.169	0.214	0.312	309.2	440.9	14.5
May	0.184	0.287	0.612	643.9	316.0	12.4
June	0.143	0.180	0.221	333.5	185.0	6.7
July	0.135	0.175	0.255	210.0	208.3	5.4
August	---	---	---	---	---	---
September	---	---	---	---	---	---
October	---	---	---	---	---	---
November	---	---	---	---	---	---
December	---	---	---	---	---	---
Yearly Avg:	---	0.198	---	210.0	208.3	5.4
Peak Month:	---	0.287	---	---	---	---
Min Sample:	0.135	---	---	210.0	208.3	5.4
Max Sample:	---	---	0.612	210.0	208.3	5.4

Month	2017 Combined Flow and Loads					
	Flow (mgd)			CBOD <sub>5</sub> (lb/day)	TSS (lb/day)	P (lb/day)
	Daily Min	Mo. Avg	Daily Max	Mo. Avg	Mo. Avg	Mo. Avg
January	0.239	0.272	0.309	564.8	1,398.1	11.9
February	0.245	0.321	1.285	731.9	1,567.8	15.0
March	0.281	0.312	0.367	589.5	376.2	13.1
April	0.292	0.346	0.483	592.9	587.6	20.8
May	0.309	0.444	0.887	893.0	384.1	20.4
June	0.245	0.296	0.352	530.1	300.5	11.9
July	0.199	0.281	0.401	383.1	330.7	8.2
August	---	---	---	---	---	---
September	---	---	---	---	---	---
October	---	---	---	---	---	---
November	---	---	---	---	---	---
December	---	---	---	---	---	---
Yearly Avg:	---	0.325	---	383.1	330.7	8.2
Peak Month:	---	0.444	---	---	---	---
Min Sample:	0.199	---	---	383.1	330.7	8.2
Max Sample:	---	---	1.285	383.1	330.7	8.2