
Appendix C: Nutrient Results as Tables

All Tables presented in this Appendix are DRAFT and are subject to change.

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C.1 RIVERINE RESULTS

C.1.1 Coosa River Watershed

Table C-1 Total Phosphorus Growing Season Median at the Georgia-Alabama State Line

Year	Calibration	Current	Natural	Current NPS	Future	Future NPS
	Total Phosphorus (mg/L)					
2001	0.109	0.070	0.033	0.039	0.070	0.041
2002	0.136	0.083	0.035	0.045	0.085	0.047
2003	0.073	0.052	0.029	0.034	0.052	0.035
2004	0.102	0.069	0.033	0.038	0.068	0.039
2005	0.096	0.062	0.033	0.037	0.062	0.038
2006	0.143	0.088	0.037	0.047	0.089	0.048
2007	0.251	0.110	0.038	0.049	0.112	0.052
2008	0.141	0.092	0.037	0.048	0.094	0.049
2009	0.092	0.069	0.036	0.041	0.070	0.043
2010	0.136	0.079	0.037	0.044	0.082	0.046
2011	0.131	0.087	0.036	0.047	0.089	0.049
2012	0.123	0.091	0.037	0.050	0.094	0.051

C.2 LAKE RESULTS

C.2.1 Lake Lanier

Table C-2 Lake Lanier Stations

Station	Station Description	Latitude	Longitude
1201080902	Lake Sidney Lanier upstream of Buford Dam Forebay	34.162778	-84.067108
1201080403	Lake Lanier upstream from Flowery Branch Confluence (Mid-lake)	34.200278	-83.982869
1201080203	Lake Sidney Lanier at Browns Bridge Road (State Road 369)	34.261666	-83.950662
1201070501	Lake Sidney Lanier at Boling Bridge (State Road 53) on Chestatee River	34.312350	-83.950103
1201080103	Lake Sidney Lanier at Lanier Bridge (State Road 53) on Chattahoochee River	34.321950	-83.880171
1201040404	Lake Sidney Lanier - Little River Embayment, Between M1WC & 3LR	34.355000	-83.842700
1201080304	Lake Sidney Lanier - Flat Creek Embayment, 100' U/S M7FC	34.258700	-83.919800
1201080307	Lake Sidney Lanier - Balus Creek Embayment, 0.34m SE M6FC	34.250400	-83.924400
1201080401	Lake Sidney Lanier - Mud Crk Embayment, Between Marina & Ramp	34.233300	-83.937300
1201080603	Lake Sidney Lanier - Six Mile Creek Embayment, 300' E M9SM	34.233500	-84.028700

Table C-3 Chlorophyll a Growing Season Average in Lake Lanier (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	4	4	6	4	5	4	4	2	2	3	5	3
1201080403	4	4	7	4	6	4	5	3	3	3	5	3
1201080203	4	5	7	4	7	4	5	3	5	4	5	4
1201070501	6	7	9	6	8	5	6	5	7	5	6	5
1201080103	7	8	11	7	11	6	8	7	8	6	8	8
1201040404	9	11	14	9	15	6	10	7	9	8	10	9
1201080304	9	8	9	5	9	4	6	3	5	5	5	6
1201080307	7	7	8	4	8	4	5	3	4	5	5	4
1201080401	4	5	7	4	7	4	5	2	3	5	5	4
1201080603	7	4	6	4	6	4	5	2	4	5	4	3

Table C-4 Total Nitrogen Annual Maximum in Lake Lanier (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.34	0.29	0.43	0.39	0.38	0.38	0.26	0.23	0.38	0.56	0.53	0.51
1201080403	0.39	0.31	0.48	0.40	0.44	0.41	0.32	0.31	0.54	0.63	0.42	0.31
1201080203	0.53	0.43	0.71	0.48	0.56	0.50	0.44	0.42	0.65	0.76	0.50	0.43
1201070501	0.58	0.50	0.68	0.54	0.56	0.51	0.46	0.47	0.64	0.74	0.52	0.41
1201080103	0.74	0.74	0.94	0.66	0.77	0.71	0.66	0.71	0.85	0.94	0.76	0.81
1201040404	0.82	0.81	0.99	0.75	0.82	0.76	0.73	0.87	0.91	1.03	0.81	0.84
1201080304	0.70	0.77	0.80	0.78	0.83	0.87	0.67	1.11	0.98	1.16	0.93	0.89
1201080307	0.52	0.59	0.67	0.56	0.70	0.60	0.57	0.61	0.79	0.98	0.59	0.59
1201080401	0.50	0.39	0.64	0.45	0.54	0.47	0.42	0.43	0.63	0.79	0.45	0.41
1201080603	0.44	0.55	0.71	0.47	0.56	0.52	0.35	0.40	0.63	0.73	0.51	0.43

Table C-5 Total Nitrogen Growing Season Average in Lake Lanier (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.29	0.22	0.36	0.26	0.32	0.28	0.21	0.18	0.20	0.36	0.33	0.24
1201080403	0.33	0.25	0.41	0.29	0.36	0.31	0.24	0.24	0.26	0.40	0.29	0.21
1201080203	0.40	0.31	0.51	0.37	0.46	0.35	0.31	0.33	0.39	0.48	0.37	0.31
1201070501	0.44	0.34	0.54	0.42	0.48	0.35	0.32	0.36	0.44	0.45	0.38	0.32
1201080103	0.48	0.39	0.59	0.45	0.58	0.38	0.37	0.49	0.56	0.53	0.46	0.48
1201040404	0.51	0.43	0.63	0.49	0.62	0.40	0.39	0.52	0.58	0.53	0.46	0.47
1201080304	0.52	0.42	0.62	0.49	0.59	0.53	0.48	0.73	0.70	0.82	0.65	0.68
1201080307	0.40	0.31	0.51	0.37	0.45	0.39	0.32	0.37	0.41	0.52	0.39	0.35
1201080401	0.37	0.28	0.47	0.33	0.42	0.34	0.29	0.30	0.34	0.43	0.33	0.28
1201080603	0.34	0.26	0.43	0.30	0.42	0.32	0.24	0.25	0.32	0.39	0.31	0.21

Table C-6 Total Phosphorus Growing Season Average in Lake Lanier (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.016	0.014	0.026	0.020	0.024	0.020	0.013	0.006	0.015	0.032	0.024	0.017
1201080403	0.015	0.013	0.024	0.017	0.022	0.018	0.013	0.009	0.016	0.029	0.022	0.016
1201080203	0.020	0.018	0.032	0.022	0.029	0.021	0.017	0.016	0.026	0.032	0.028	0.022
1201070501	0.025	0.024	0.037	0.026	0.032	0.025	0.020	0.022	0.032	0.032	0.031	0.026
1201080103	0.027	0.025	0.039	0.028	0.037	0.027	0.023	0.029	0.038	0.038	0.034	0.033
1201040404	0.029	0.027	0.041	0.030	0.039	0.028	0.025	0.029	0.037	0.035	0.034	0.033
1201080304	0.022	0.020	0.032	0.023	0.028	0.021	0.017	0.015	0.023	0.030	0.025	0.021
1201080307	0.019	0.017	0.030	0.020	0.026	0.020	0.016	0.013	0.022	0.030	0.025	0.020
1201080401	0.017	0.016	0.028	0.019	0.025	0.020	0.015	0.013	0.021	0.029	0.024	0.019
1201080603	0.014	0.013	0.023	0.017	0.021	0.017	0.012	0.007	0.014	0.025	0.020	0.014

Table C-7 Chlorophyll a Growing Season Average in Lake Lanier (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	4	4	5	4	5	4	5	3	3	4	5	3
1201080403	4	4	6	4	5	4	5	3	3	3	5	3
1201080203	4	4	6	4	6	4	5	3	5	4	5	4
1201070501	5	6	8	5	7	5	6	5	6	5	6	5
1201080103	6	7	9	6	10	6	7	6	7	6	8	8
1201040404	8	9	12	8	13	6	10	6	8	7	10	9
1201080304	7	6	7	4	8	4	6	4	4	5	5	6
1201080307	6	6	7	4	7	4	5	3	4	4	5	5
1201080401	4	4	6	4	6	4	5	2	3	4	5	4
1201080603	6	4	5	4	5	4	5	2	3	4	4	3

Table C-8 Total Nitrogen Annual Maximum in Lake Lanier (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.82	0.89	0.83	0.82	0.87	0.86	0.85	0.99	1.05	0.76	0.77	0.79
1201080403	0.58	0.66	0.74	0.74	0.66	0.68	0.69	0.71	0.65	0.60	0.54	0.43
1201080203	0.58	0.63	0.70	0.61	0.62	0.62	0.62	0.68	0.61	0.69	0.53	0.46
1201070501	0.56	0.57	0.68	0.58	0.58	0.56	0.53	0.56	0.60	0.68	0.49	0.41
1201080103	0.69	0.75	0.87	0.67	0.72	0.72	0.69	0.72	0.78	0.84	0.71	0.76
1201040404	0.74	0.76	0.89	0.71	0.75	0.72	0.70	0.80	0.79	0.89	0.72	0.76
1201080304	0.78	0.92	0.86	0.90	0.86	0.95	0.92	1.37	1.08	1.08	1.08	1.02
1201080307	0.64	0.75	0.78	0.76	0.77	0.75	0.75	0.97	0.90	0.91	0.82	0.80
1201080401	0.55	0.62	0.70	0.67	0.63	0.64	0.65	0.74	0.70	0.78	0.63	0.50
1201080603	0.60	0.85	0.94	0.65	0.69	0.70	0.68	0.68	0.84	0.76	0.59	0.53

Table C-9 Total Nitrogen Growing Season Average in Lake Lanier (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.55	0.68	0.69	0.65	0.64	0.66	0.69	0.80	0.68	0.52	0.53	0.49
1201080403	0.48	0.59	0.61	0.57	0.57	0.57	0.58	0.58	0.49	0.46	0.37	0.30
1201080203	0.47	0.53	0.59	0.53	0.55	0.51	0.52	0.50	0.46	0.47	0.39	0.34
1201070501	0.46	0.47	0.54	0.49	0.50	0.45	0.45	0.43	0.44	0.44	0.39	0.33
1201080103	0.51	0.54	0.60	0.54	0.59	0.49	0.50	0.55	0.55	0.52	0.46	0.48
1201040404	0.52	0.53	0.60	0.54	0.60	0.46	0.48	0.53	0.54	0.48	0.43	0.44
1201080304	0.61	0.69	0.71	0.66	0.68	0.68	0.71	0.98	0.77	0.82	0.69	0.73
1201080307	0.49	0.57	0.61	0.55	0.56	0.55	0.56	0.59	0.49	0.52	0.42	0.39
1201080401	0.47	0.55	0.59	0.54	0.55	0.53	0.54	0.52	0.43	0.43	0.35	0.31
1201080603	0.46	0.57	0.62	0.55	0.58	0.55	0.56	0.57	0.51	0.41	0.37	0.29

Table C-10 Total Phosphorus Growing Season Average in Lake Lanier (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.016	0.014	0.023	0.020	0.022	0.020	0.015	0.010	0.016	0.031	0.024	0.019
1201080403	0.014	0.012	0.022	0.016	0.019	0.017	0.014	0.009	0.015	0.027	0.021	0.017
1201080203	0.018	0.016	0.028	0.020	0.025	0.020	0.017	0.015	0.024	0.029	0.027	0.023
1201070501	0.022	0.021	0.033	0.025	0.029	0.023	0.020	0.021	0.030	0.030	0.029	0.026
1201080103	0.023	0.022	0.035	0.025	0.032	0.024	0.023	0.025	0.033	0.034	0.033	0.033
1201040404	0.025	0.024	0.036	0.027	0.034	0.026	0.024	0.026	0.033	0.032	0.032	0.031
1201080304	0.018	0.016	0.026	0.019	0.023	0.020	0.017	0.017	0.021	0.028	0.025	0.022
1201080307	0.016	0.015	0.026	0.018	0.023	0.019	0.016	0.013	0.020	0.028	0.024	0.020
1201080401	0.016	0.014	0.025	0.018	0.022	0.019	0.015	0.012	0.019	0.026	0.023	0.019
1201080603	0.013	0.012	0.020	0.016	0.019	0.016	0.013	0.008	0.013	0.023	0.018	0.014

Table C-11 Chlorophyll a Growing Season Average in Lake Lanier (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	3	2	4	3	4	3	3	1	1	2	2	1
1201080403	4	3	5	3	4	3	3	2	2	2	3	1
1201080203	3	3	5	3	5	3	3	2	3	3	3	2
1201070501	5	5	8	5	7	4	5	4	5	4	5	4
1201080103	5	6	8	5	9	4	6	5	6	5	6	6
1201040404	7	8	11	7	12	5	8	5	7	6	8	7
1201080304	6	5	6	3	6	3	4	2	3	4	3	3
1201080307	6	4	6	3	6	3	4	2	3	3	3	2
1201080401	3	3	5	3	5	3	3	2	2	3	3	2
1201080603	6	3	5	3	5	3	4	2	3	4	3	2

Table C-12 Total Nitrogen Annual Maximum in Lake Lanier (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.32	0.20	0.30	0.27	0.26	0.26	0.15	0.11	0.28	0.34	0.24	0.14
1201080403	0.32	0.20	0.34	0.28	0.29	0.27	0.18	0.15	0.40	0.48	0.26	0.17
1201080203	0.43	0.32	0.57	0.38	0.44	0.37	0.32	0.28	0.54	0.63	0.34	0.32
1201070501	0.48	0.41	0.57	0.45	0.45	0.41	0.36	0.36	0.53	0.62	0.43	0.32
1201080103	0.59	0.60	0.77	0.53	0.61	0.56	0.52	0.54	0.66	0.78	0.62	0.63
1201040404	0.66	0.66	0.81	0.61	0.67	0.62	0.59	0.67	0.74	0.85	0.65	0.67
1201080304	0.38	0.25	0.47	0.29	0.40	0.33	0.26	0.19	0.42	0.50	0.27	0.21
1201080307	0.40	0.27	0.48	0.31	0.40	0.33	0.29	0.19	0.44	0.51	0.29	0.25
1201080401	0.39	0.27	0.50	0.33	0.40	0.33	0.28	0.20	0.48	0.56	0.31	0.23
1201080603	0.40	0.44	0.59	0.34	0.44	0.39	0.23	0.26	0.54	0.62	0.37	0.31

Table C-13 Total Nitrogen Growing Season Average in Lake Lanier (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.23	0.14	0.25	0.16	0.21	0.18	0.11	0.08	0.11	0.24	0.14	0.08
1201080403	0.25	0.16	0.29	0.18	0.24	0.19	0.13	0.11	0.15	0.27	0.16	0.11
1201080203	0.29	0.20	0.37	0.24	0.33	0.23	0.19	0.18	0.26	0.33	0.24	0.18
1201070501	0.35	0.27	0.44	0.32	0.39	0.27	0.23	0.27	0.36	0.37	0.32	0.25
1201080103	0.36	0.28	0.46	0.33	0.45	0.27	0.26	0.35	0.41	0.40	0.34	0.35
1201040404	0.40	0.33	0.50	0.38	0.49	0.30	0.29	0.39	0.45	0.41	0.36	0.36
1201080304	0.28	0.19	0.35	0.22	0.30	0.22	0.17	0.16	0.22	0.30	0.21	0.15
1201080307	0.27	0.18	0.35	0.22	0.30	0.22	0.17	0.15	0.22	0.30	0.20	0.15
1201080401	0.26	0.18	0.33	0.21	0.28	0.21	0.16	0.14	0.21	0.29	0.20	0.15
1201080603	0.26	0.17	0.32	0.19	0.30	0.20	0.14	0.14	0.24	0.31	0.22	0.15

Table C-14 Total Phosphorus Growing Season Average in Lake Lanier (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.014	0.010	0.020	0.015	0.018	0.016	0.010	0.006	0.011	0.026	0.018	0.012
1201080403	0.012	0.009	0.019	0.014	0.017	0.014	0.011	0.007	0.012	0.024	0.018	0.013
1201080203	0.016	0.013	0.026	0.017	0.023	0.017	0.014	0.012	0.019	0.026	0.022	0.017
1201070501	0.020	0.018	0.031	0.022	0.026	0.020	0.016	0.017	0.026	0.028	0.026	0.021
1201080103	0.020	0.018	0.032	0.021	0.029	0.020	0.018	0.021	0.028	0.030	0.027	0.027
1201040404	0.022	0.020	0.033	0.023	0.031	0.022	0.020	0.022	0.029	0.029	0.027	0.027
1201080304	0.015	0.012	0.023	0.015	0.020	0.016	0.013	0.010	0.016	0.024	0.020	0.015
1201080307	0.014	0.011	0.023	0.015	0.020	0.016	0.013	0.010	0.016	0.024	0.020	0.015
1201080401	0.014	0.011	0.022	0.015	0.019	0.016	0.012	0.009	0.015	0.024	0.019	0.015
1201080603	0.012	0.009	0.018	0.013	0.017	0.014	0.010	0.006	0.011	0.021	0.016	0.010

Table C-15 Chlorophyll a Growing Season Average in Lake Lanier (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	3	1	2	1	2	1	1	1	1	1	1	0
1201080403	3	1	3	2	2	2	2	1	1	1	2	1
1201080203	2	2	3	2	3	2	2	1	2	2	2	1
1201070501	3	3	5	3	5	3	3	2	3	3	3	2
1201080103	3	3	5	4	6	3	3	3	3	3	4	3
1201040404	4	5	7	5	8	3	5	3	4	4	5	4
1201080304	4	2	4	2	4	2	2	1	1	2	2	1
1201080307	4	2	3	2	3	1	2	1	1	2	1	1
1201080401	3	2	3	2	3	1	2	1	1	2	1	1
1201080603	5	1	2	2	2	1	2	1	1	2	1	1

Table C-16 Total Nitrogen Annual Maximum in Lake Lanier (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.32	0.11	0.16	0.15	0.14	0.14	0.09	0.07	0.16	0.22	0.15	0.10
1201080403	0.31	0.11	0.18	0.16	0.17	0.15	0.11	0.08	0.26	0.31	0.17	0.12
1201080203	0.31	0.19	0.32	0.25	0.23	0.22	0.18	0.13	0.36	0.40	0.21	0.21
1201070501	0.33	0.27	0.35	0.32	0.28	0.26	0.22	0.19	0.37	0.42	0.29	0.25
1201080103	0.34	0.36	0.43	0.36	0.31	0.33	0.30	0.25	0.43	0.47	0.36	0.33
1201040404	0.37	0.38	0.44	0.41	0.34	0.36	0.34	0.30	0.43	0.48	0.36	0.34
1201080304	0.31	0.13	0.25	0.19	0.21	0.19	0.15	0.10	0.27	0.32	0.17	0.14
1201080307	0.31	0.14	0.27	0.20	0.22	0.19	0.17	0.11	0.28	0.33	0.18	0.16
1201080401	0.31	0.15	0.27	0.21	0.22	0.19	0.16	0.11	0.31	0.36	0.20	0.16
1201080603	0.31	0.11	0.17	0.15	0.15	0.14	0.10	0.07	0.21	0.24	0.16	0.10

Table C-17 Total Nitrogen Growing Season Average in Lake Lanier (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.17	0.07	0.13	0.10	0.12	0.10	0.07	0.04	0.06	0.15	0.09	0.05
1201080403	0.17	0.08	0.15	0.10	0.13	0.11	0.08	0.05	0.08	0.16	0.10	0.06
1201080203	0.19	0.11	0.21	0.14	0.18	0.13	0.11	0.09	0.14	0.20	0.15	0.10
1201070501	0.22	0.16	0.27	0.20	0.23	0.17	0.14	0.15	0.22	0.25	0.21	0.16
1201080103	0.21	0.15	0.26	0.20	0.24	0.17	0.14	0.17	0.22	0.25	0.20	0.19
1201040404	0.21	0.17	0.27	0.22	0.26	0.18	0.16	0.19	0.22	0.24	0.20	0.19
1201080304	0.18	0.10	0.19	0.13	0.16	0.13	0.10	0.08	0.11	0.18	0.13	0.09
1201080307	0.18	0.10	0.19	0.13	0.16	0.12	0.10	0.07	0.11	0.17	0.12	0.09
1201080401	0.18	0.09	0.18	0.12	0.15	0.12	0.09	0.07	0.11	0.17	0.12	0.08
1201080603	0.17	0.08	0.14	0.10	0.13	0.10	0.07	0.05	0.07	0.14	0.09	0.05

Table C-18 Total Phosphorus Growing Season Average in Lake Lanier (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.012	0.008	0.014	0.012	0.014	0.013	0.009	0.006	0.008	0.020	0.014	0.010
1201080403	0.011	0.008	0.015	0.012	0.014	0.012	0.010	0.006	0.009	0.019	0.014	0.010
1201080203	0.012	0.010	0.019	0.014	0.017	0.014	0.011	0.008	0.014	0.021	0.017	0.013
1201070501	0.015	0.014	0.023	0.018	0.020	0.016	0.013	0.013	0.019	0.023	0.021	0.016
1201080103	0.015	0.013	0.023	0.017	0.021	0.016	0.014	0.014	0.019	0.023	0.019	0.018
1201040404	0.015	0.015	0.023	0.018	0.022	0.017	0.015	0.015	0.019	0.021	0.019	0.018
1201080304	0.012	0.010	0.017	0.013	0.015	0.013	0.011	0.007	0.011	0.018	0.015	0.011
1201080307	0.011	0.009	0.017	0.013	0.015	0.013	0.011	0.007	0.011	0.019	0.015	0.011
1201080401	0.011	0.009	0.016	0.012	0.015	0.013	0.010	0.007	0.011	0.018	0.015	0.011
1201080603	0.010	0.008	0.014	0.011	0.013	0.011	0.009	0.005	0.008	0.017	0.013	0.009

Table C-19 Chlorophyll a Growing Season Average in Lake Lanier (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	4	4	5	4	5	4	5	3	3	3	5	3
1201080403	4	4	6	4	5	4	5	3	3	3	5	4
1201080203	4	5	6	4	6	4	5	3	5	4	5	4
1201070501	5	6	8	5	8	5	6	5	7	5	7	5
1201080103	6	7	10	6	10	6	8	7	8	6	8	8
1201040404	8	10	13	8	13	6	10	6	8	8	10	9
1201080304	7	7	7	4	8	4	6	4	5	5	6	6
1201080307	7	6	7	4	7	4	6	3	4	4	5	5
1201080401	4	4	6	4	6	4	5	2	3	4	5	4
1201080603	7	4	6	4	5	4	5	2	3	4	4	3

Table C-20 Total Nitrogen Annual Maximum in Lake Lanier (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.85	0.92	0.88	0.86	0.91	0.89	0.89	1.02	1.07	0.79	0.80	0.82
1201080403	0.61	0.68	0.77	0.78	0.70	0.73	0.73	0.75	0.68	0.64	0.58	0.45
1201080203	0.61	0.66	0.75	0.66	0.67	0.67	0.66	0.71	0.64	0.72	0.56	0.48
1201070501	0.60	0.61	0.72	0.62	0.63	0.60	0.57	0.60	0.62	0.71	0.53	0.44
1201080103	0.74	0.81	0.92	0.72	0.78	0.76	0.74	0.77	0.84	0.88	0.75	0.82
1201040404	0.80	0.81	0.93	0.77	0.91	0.76	0.75	0.86	0.84	0.92	0.75	0.81
1201080304	0.83	0.97	0.91	0.96	0.92	1.01	0.95	1.46	1.14	1.14	1.13	1.09
1201080307	0.67	0.79	0.83	0.82	0.82	0.78	0.78	1.03	0.89	0.96	0.84	0.81
1201080401	0.59	0.65	0.73	0.71	0.67	0.69	0.69	0.77	0.74	0.82	0.60	0.52
1201080603	0.64	0.86	1.00	0.71	0.73	0.75	0.73	0.72	0.83	0.79	0.64	0.56

Table C-21 Total Nitrogen Growing Season Average in Lake Lanier (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.57	0.71	0.73	0.69	0.68	0.71	0.73	0.82	0.70	0.55	0.57	0.51
1201080403	0.50	0.62	0.65	0.61	0.61	0.61	0.62	0.60	0.51	0.49	0.39	0.32
1201080203	0.50	0.56	0.63	0.58	0.60	0.56	0.56	0.53	0.49	0.50	0.41	0.36
1201070501	0.49	0.50	0.58	0.53	0.54	0.48	0.49	0.46	0.48	0.46	0.41	0.35
1201080103	0.55	0.57	0.65	0.59	0.64	0.52	0.54	0.59	0.59	0.54	0.49	0.52
1201040404	0.56	0.57	0.65	0.59	0.66	0.50	0.52	0.58	0.58	0.51	0.46	0.47
1201080304	0.64	0.72	0.75	0.71	0.73	0.73	0.75	1.04	0.82	0.87	0.74	0.78
1201080307	0.52	0.60	0.65	0.60	0.61	0.59	0.60	0.62	0.53	0.55	0.45	0.41
1201080401	0.49	0.59	0.63	0.58	0.59	0.57	0.58	0.55	0.46	0.46	0.38	0.33
1201080603	0.48	0.60	0.66	0.59	0.63	0.60	0.60	0.61	0.55	0.46	0.41	0.32

Table C-22 Total Phosphorus Growing Season Average in Lake Lanier (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.017	0.014	0.024	0.020	0.022	0.020	0.015	0.011	0.017	0.031	0.024	0.019
1201080403	0.014	0.013	0.022	0.017	0.020	0.017	0.014	0.010	0.016	0.026	0.021	0.017
1201080203	0.019	0.017	0.029	0.020	0.026	0.020	0.018	0.016	0.024	0.029	0.027	0.023
1201070501	0.023	0.021	0.033	0.025	0.029	0.023	0.020	0.021	0.030	0.030	0.030	0.026
1201080103	0.024	0.023	0.036	0.026	0.034	0.025	0.023	0.027	0.034	0.034	0.034	0.033
1201040404	0.026	0.025	0.037	0.028	0.036	0.026	0.025	0.027	0.034	0.033	0.033	0.032
1201080304	0.018	0.016	0.027	0.019	0.024	0.021	0.018	0.017	0.022	0.027	0.025	0.023
1201080307	0.017	0.015	0.026	0.019	0.024	0.020	0.016	0.014	0.021	0.027	0.024	0.020
1201080401	0.016	0.014	0.025	0.018	0.023	0.019	0.016	0.013	0.020	0.026	0.023	0.020
1201080603	0.014	0.012	0.021	0.016	0.019	0.016	0.013	0.008	0.014	0.023	0.018	0.014

Table C-23 Chlorophyll a Growing Season Average in Lake Lanier (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	3	3	5	3	4	3	3	2	2	2	3	1
1201080403	4	3	5	3	5	3	4	2	2	3	3	1
1201080203	4	4	6	3	5	3	4	2	4	3	4	3
1201070501	5	5	8	5	7	4	5	4	5	4	5	4
1201080103	6	6	9	5	9	5	6	5	6	5	6	6
1201040404	7	8	12	7	12	5	8	5	7	7	8	7
1201080304	6	5	6	3	7	3	4	2	3	4	3	3
1201080307	6	5	6	3	6	3	4	2	3	3	3	2
1201080401	4	3	6	3	6	3	4	2	2	3	3	2
1201080603	6	3	5	3	5	3	4	2	3	4	3	2

Table C-24 Total Nitrogen Annual Maximum in Lake Lanier (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.32	0.23	0.34	0.32	0.31	0.31	0.17	0.13	0.31	0.38	0.27	0.16
1201080403	0.32	0.23	0.38	0.32	0.33	0.32	0.21	0.18	0.43	0.52	0.28	0.18
1201080203	0.46	0.36	0.62	0.42	0.49	0.42	0.36	0.32	0.59	0.65	0.36	0.35
1201070501	0.52	0.45	0.61	0.49	0.50	0.45	0.39	0.40	0.56	0.65	0.46	0.35
1201080103	0.64	0.67	0.83	0.59	0.68	0.62	0.57	0.60	0.72	0.81	0.66	0.68
1201040404	0.72	0.71	0.87	0.67	0.84	0.67	0.64	0.73	0.77	0.88	0.68	0.72
1201080304	0.40	0.28	0.52	0.33	0.45	0.37	0.29	0.22	0.46	0.53	0.29	0.23
1201080307	0.43	0.31	0.53	0.35	0.45	0.37	0.32	0.22	0.47	0.55	0.31	0.28
1201080401	0.42	0.30	0.55	0.38	0.46	0.37	0.32	0.23	0.52	0.60	0.34	0.25
1201080603	0.40	0.46	0.65	0.38	0.50	0.44	0.26	0.31	0.54	0.65	0.40	0.34

Table C-25 Total Nitrogen Growing Season Average in Lake Lanier (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.25	0.17	0.29	0.20	0.25	0.21	0.13	0.10	0.13	0.26	0.15	0.09
1201080403	0.27	0.18	0.33	0.21	0.28	0.23	0.15	0.13	0.17	0.29	0.18	0.12
1201080203	0.32	0.23	0.42	0.28	0.38	0.26	0.21	0.21	0.29	0.35	0.26	0.20
1201070501	0.38	0.29	0.48	0.36	0.43	0.30	0.26	0.30	0.39	0.39	0.34	0.27
1201080103	0.40	0.32	0.51	0.38	0.51	0.31	0.29	0.40	0.46	0.43	0.37	0.38
1201040404	0.44	0.37	0.55	0.42	0.56	0.33	0.32	0.44	0.49	0.44	0.38	0.39
1201080304	0.31	0.22	0.39	0.26	0.35	0.25	0.20	0.19	0.25	0.32	0.22	0.17
1201080307	0.30	0.21	0.39	0.25	0.35	0.25	0.19	0.18	0.25	0.32	0.22	0.17
1201080401	0.29	0.20	0.37	0.24	0.33	0.24	0.18	0.17	0.23	0.31	0.21	0.16
1201080603	0.28	0.20	0.36	0.23	0.35	0.24	0.16	0.17	0.27	0.35	0.24	0.17

Table C-26 Total Phosphorus Growing Season Average in Lake Lanier (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1201080902	0.014	0.010	0.021	0.016	0.019	0.016	0.011	0.006	0.011	0.026	0.019	0.012
1201080403	0.013	0.010	0.020	0.014	0.018	0.015	0.011	0.007	0.012	0.024	0.018	0.013
1201080203	0.016	0.013	0.027	0.017	0.024	0.017	0.014	0.012	0.020	0.026	0.023	0.018
1201070501	0.020	0.018	0.031	0.022	0.027	0.020	0.017	0.018	0.027	0.028	0.026	0.022
1201080103	0.022	0.019	0.033	0.022	0.031	0.021	0.019	0.022	0.029	0.030	0.028	0.027
1201040404	0.023	0.021	0.035	0.024	0.033	0.022	0.021	0.024	0.030	0.029	0.028	0.027
1201080304	0.015	0.012	0.024	0.016	0.021	0.017	0.013	0.011	0.016	0.024	0.020	0.015
1201080307	0.015	0.012	0.024	0.016	0.021	0.016	0.013	0.010	0.017	0.024	0.020	0.016
1201080401	0.014	0.011	0.023	0.015	0.020	0.016	0.012	0.010	0.016	0.023	0.019	0.015
1201080603	0.012	0.010	0.019	0.014	0.017	0.014	0.010	0.006	0.012	0.021	0.016	0.011

C.2.2 West Point Lake

Table C-27 West Point Lake Stations

Station	Station Description	Latitude	Longitude
1202060802	West Point Lake at LaGrange Water Intake near LaGrange, Ga.	33.078300	-85.110833
1202080208	West Point Lake - Dam Forebay	32.920800	-85.183400
WESC_3	Deepest point, main river channel, at GA Hwy. 109 bridge	33.028654	-85.16483
WESC_2	Deepest point, main creek channel, immediately downstream of Wehadkee/Veasey/Stroud Creeks confluence	32.998304	-85.198359
WESC_1	Deepest point, main river channel, near Dam Forebay	32.934296	-85.191748

Table C-28 Chlorophyll a Growing Season Average in West Point Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	14	15	11	12	8	7	15	9	6	7	12	13
1202080208	13	12	16	7	8	10	12	9	7	5	8	12
WESC_3	17	15	16	11	12	10	19	13	10	11	20	19
WESC_2	5	4	5	2	4	5	4	3	4	4	3	4
WESC_1	14	12	16	7	9	11	12	10	8	6	9	13

Table C-29 Total Nitrogen Annual Maximum in West Point Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	3.85	4.27	2.34	2.71	2.44	3.04	3.44	2.93	3.12	3.21	3.24	3.20
1202080208	1.24	2.33	1.32	1.26	1.55	1.75	1.92	1.54	1.76	1.60	1.56	1.71
WESC_3	3.15	3.65	2.01	2.14	2.17	2.60	2.68	2.51	2.82	2.71	2.49	2.82
WESC_2	0.82	1.66	0.64	0.55	0.74	1.29	0.62	0.67	0.98	1.23	0.98	1.63
WESC_1	1.43	2.43	1.36	1.27	1.58	1.78	1.88	1.55	1.59	1.64	1.67	1.77

Table C-30 Total Nitrogen Growing Season Average in West Point Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	1.90	2.18	1.31	1.75	1.24	1.93	2.20	1.97	1.59	1.79	1.70	2.14
1202080208	0.93	1.28	0.77	1.06	0.72	1.09	1.22	1.10	0.89	0.87	0.89	1.06
WESC_3	1.59	1.82	1.14	1.51	1.12	1.71	1.88	1.68	1.39	1.47	1.47	1.85
WESC_2	0.27	0.31	0.23	0.23	0.24	0.34	0.26	0.26	0.24	0.27	0.20	0.25
WESC_1	0.95	1.29	0.78	1.07	0.73	1.11	1.24	1.14	0.94	0.91	0.91	1.08

Table C-31 Total Phosphorus Growing Season Average in West Point Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.059	0.062	0.041	0.052	0.040	0.070	0.065	0.059	0.058	0.059	0.049	0.059
1202080208	0.036	0.037	0.036	0.031	0.028	0.039	0.037	0.033	0.033	0.031	0.027	0.032
WESC_3	0.045	0.046	0.035	0.041	0.034	0.059	0.050	0.045	0.047	0.046	0.038	0.045
WESC_2	0.013	0.009	0.013	0.008	0.012	0.013	0.009	0.008	0.012	0.012	0.010	0.010
WESC_1	0.029	0.030	0.026	0.028	0.024	0.034	0.031	0.029	0.030	0.029	0.023	0.026

Table C-32 Chlorophyll a Growing Season Average in West Point Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	14	17	13	11	10	7	13	10	7	7	13	13
1202080208	17	18	20	9	10	13	16	13	9	6	13	20
WESC_3	20	20	20	14	15	11	25	16	12	13	26	24
WESC_2	6	5	6	3	4	6	5	4	5	5	5	6
WESC_1	18	20	20	11	11	14	17	14	10	7	15	22

Table C-33 Total Nitrogen Annual Maximum in West Point Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	6.29	6.06	3.93	4.29	4.14	5.03	5.68	5.83	4.92	5.45	5.18	5.86
1202080208	2.57	3.82	2.17	2.16	2.60	2.88	2.95	3.08	2.90	2.93	2.90	3.27
WESC_3	5.41	5.02	3.42	3.68	3.64	4.31	5.09	4.89	4.28	4.72	4.37	5.12
WESC_2	1.77	2.29	1.01	0.94	1.04	2.08	1.46	1.51	1.43	1.92	1.74	2.61
WESC_1	2.91	3.98	2.23	2.27	2.70	3.01	3.10	3.20	2.89	2.99	3.00	3.38

Table C-34 Total Nitrogen Growing Season Average in West Point Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	2.88	3.57	1.92	2.85	1.92	3.13	3.91	3.59	2.54	2.96	2.93	3.78
1202080208	1.34	2.13	1.06	1.79	1.05	1.83	2.15	2.06	1.50	1.42	1.60	1.96
WESC_3	2.40	3.01	1.66	2.51	1.72	2.78	3.40	3.10	2.26	2.44	2.54	3.32
WESC_2	0.37	0.52	0.29	0.39	0.32	0.58	0.47	0.47	0.36	0.42	0.30	0.44
WESC_1	1.38	2.15	1.08	1.81	1.06	1.84	2.19	2.13	1.58	1.48	1.63	2.01

Table C-35 Total Phosphorus Growing Season Average in West Point Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.085	0.099	0.061	0.086	0.061	0.095	0.108	0.104	0.082	0.095	0.088	0.109
1202080208	0.049	0.061	0.048	0.053	0.039	0.054	0.059	0.059	0.049	0.047	0.050	0.063
WESC_3	0.066	0.076	0.048	0.070	0.051	0.081	0.084	0.083	0.068	0.074	0.067	0.087
WESC_2	0.015	0.013	0.014	0.013	0.014	0.017	0.013	0.013	0.015	0.016	0.012	0.015
WESC_1	0.040	0.050	0.034	0.048	0.034	0.048	0.051	0.053	0.045	0.045	0.043	0.050

Table C-36 Chlorophyll a Growing Season Average in West Point Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	7	7	8	9	6	5	7	5	4	6	8	7
1202080208	6	5	8	3	5	5	4	4	4	4	4	5
WESC_3	9	7	11	6	8	6	8	6	6	8	10	9
WESC_2	3	1	3	1	2	2	1	1	2	2	2	2
WESC_1	6	5	8	4	6	5	4	5	4	4	4	5

Table C-37 Total Nitrogen Annual Maximum in West Point Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.74	0.73	0.70	0.67	0.71	0.73	0.75	0.67	0.69	0.76	0.78	0.71
1202080208	0.64	0.38	0.40	0.37	0.47	0.36	0.32	0.32	0.39	0.39	0.37	0.32
WESC_3	0.57	0.58	0.62	0.52	0.63	0.58	0.63	0.51	0.61	0.60	0.60	0.55
WESC_2	0.62	0.27	0.27	0.21	0.33	0.27	0.15	0.16	0.21	0.33	0.26	0.20
WESC_1	0.64	0.39	0.40	0.38	0.39	0.37	0.32	0.32	0.40	0.41	0.37	0.33

Table C-38 Total Nitrogen Growing Season Average in West Point Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.45	0.45	0.43	0.44	0.38	0.45	0.38	0.39	0.43	0.51	0.40	0.43
1202080208	0.24	0.21	0.31	0.22	0.26	0.24	0.18	0.21	0.24	0.27	0.20	0.21
WESC_3	0.39	0.37	0.40	0.35	0.35	0.40	0.33	0.33	0.37	0.44	0.35	0.37
WESC_2	0.12	0.07	0.13	0.07	0.12	0.10	0.07	0.07	0.11	0.13	0.08	0.08
WESC_1	0.24	0.21	0.30	0.22	0.25	0.25	0.19	0.21	0.25	0.28	0.20	0.21

Table C-39 Total Phosphorus Growing Season Average in West Point Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.027	0.027	0.027	0.028	0.025	0.029	0.024	0.025	0.029	0.034	0.028	0.030
1202080208	0.018	0.016	0.023	0.017	0.020	0.018	0.014	0.016	0.019	0.021	0.018	0.018
WESC_3	0.022	0.022	0.023	0.023	0.022	0.026	0.020	0.021	0.025	0.028	0.023	0.025
WESC_2	0.011	0.007	0.011	0.006	0.011	0.008	0.007	0.006	0.010	0.011	0.009	0.009
WESC_1	0.016	0.014	0.018	0.016	0.017	0.016	0.013	0.014	0.018	0.020	0.016	0.016

Table C-40 Chlorophyll a Growing Season Average in West Point Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	3	2	3	2	4	2	2	2	2	2	2	2
1202080208	1	0	3	1	2	1	1	0	1	1	0	1
WESC_3	2	1	3	1	3	2	1	2	2	2	1	1
WESC_2	2	0	1	0	1	0	0	0	1	1	0	1
WESC_1	1	0	2	1	2	1	1	0	1	1	1	1

Table C-41 Total Nitrogen Annual Maximum in West Point Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.51	0.31	0.63	0.28	0.60	0.31	0.22	0.20	0.49	0.33	0.22	0.23
1202080208	0.64	0.13	0.18	0.13	0.17	0.12	0.11	0.07	0.18	0.20	0.08	0.11
WESC_3	0.50	0.25	0.44	0.20	0.46	0.18	0.17	0.16	0.37	0.28	0.16	0.20
WESC_2	0.40	0.06	0.18	0.09	0.20	0.06	0.08	0.06	0.19	0.22	0.11	0.13
WESC_1	0.64	0.14	0.19	0.13	0.16	0.11	0.11	0.07	0.21	0.23	0.08	0.11

Table C-42 Total Nitrogen Growing Season Average in West Point Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.13	0.09	0.18	0.12	0.17	0.12	0.07	0.09	0.15	0.13	0.09	0.08
1202080208	0.08	0.03	0.11	0.06	0.10	0.06	0.04	0.05	0.10	0.09	0.04	0.05
WESC_3	0.10	0.06	0.14	0.08	0.13	0.08	0.05	0.07	0.13	0.10	0.06	0.06
WESC_2	0.09	0.03	0.07	0.03	0.06	0.02	0.02	0.03	0.13	0.07	0.03	0.05
WESC_1	0.08	0.03	0.11	0.06	0.10	0.06	0.04	0.05	0.10	0.09	0.04	0.05

Table C-43 Total Phosphorus Growing Season Average in West Point Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.012	0.009	0.016	0.011	0.015	0.011	0.007	0.009	0.014	0.012	0.009	0.008
1202080208	0.008	0.003	0.011	0.005	0.009	0.005	0.004	0.004	0.009	0.008	0.004	0.005
WESC_3	0.009	0.005	0.013	0.007	0.012	0.007	0.004	0.007	0.012	0.009	0.006	0.006
WESC_2	0.005	0.001	0.004	0.001	0.004	0.001	0.001	0.002	0.006	0.004	0.002	0.002
WESC_1	0.007	0.003	0.010	0.005	0.008	0.005	0.004	0.004	0.008	0.008	0.004	0.004

Table C-44 Chlorophyll a Growing Season Average in West Point Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	10	14	12	7	9	5	10	6	6	4	11	10
1202080208	17	18	20	9	10	13	16	13	9	6	12	20
WESC_3	17	17	20	12	15	9	22	13	11	11	22	20
WESC_2	7	5	7	3	5	6	5	4	5	5	5	6
WESC_1	17	19	20	10	11	14	17	14	10	7	14	22

Table C-45 Total Nitrogen Annual Maximum in West Point Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	11.11	10.65	7.23	7.78	7.95	8.50	9.70	10.15	8.83	9.64	8.64	10.33
1202080208	5.10	6.91	3.98	3.93	4.83	5.12	5.33	5.58	4.96	5.32	5.12	5.81
WESC_3	9.45	8.70	6.32	6.30	6.90	7.42	8.63	8.69	7.78	8.42	7.37	8.93
WESC_2	3.59	4.80	1.75	1.74	2.97	3.95	2.55	3.01	2.21	3.37	3.14	4.94
WESC_1	5.51	7.09	4.02	4.03	5.08	5.35	5.44	5.67	5.30	5.37	5.27	6.01

Table C-46 Total Nitrogen Growing Season Average in West Point Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	4.90	5.91	3.30	4.77	3.33	5.33	6.74	5.95	4.24	5.14	5.05	6.44
1202080208	2.46	3.99	1.71	3.17	1.81	3.40	4.07	3.78	2.68	2.59	3.00	3.73
WESC_3	4.16	5.10	2.83	4.34	2.98	4.78	5.94	5.24	3.85	4.26	4.42	5.73
WESC_2	0.62	1.14	0.45	0.70	0.50	1.10	0.91	0.86	0.64	0.72	0.61	0.84
WESC_1	2.51	4.02	1.75	3.20	1.83	3.42	4.15	3.90	2.80	2.69	3.03	3.79

Table C-47 Total Phosphorus Growing Season Average in West Point Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.084	0.094	0.061	0.084	0.063	0.093	0.105	0.099	0.080	0.092	0.086	0.105
1202080208	0.049	0.059	0.047	0.051	0.040	0.054	0.057	0.057	0.048	0.045	0.049	0.062
WESC_3	0.066	0.073	0.048	0.069	0.053	0.079	0.082	0.080	0.068	0.073	0.067	0.084
WESC_2	0.015	0.014	0.014	0.012	0.014	0.017	0.012	0.014	0.015	0.015	0.013	0.014
WESC_1	0.039	0.048	0.034	0.047	0.034	0.048	0.050	0.052	0.045	0.044	0.043	0.049

Table C-48 Chlorophyll a Growing Season Average in West Point Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	8	8	9	10	7	5	8	6	5	6	9	8
1202080208	7	6	10	4	6	6	5	5	4	4	5	6
WESC_3	10	9	12	8	10	6	9	7	6	9	11	11
WESC_2	3	2	4	1	3	2	2	1	2	2	2	2
WESC_1	7	6	10	4	7	7	5	6	5	5	5	7

Table C-49 Total Nitrogen Annual Maximum in West Point Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.85	0.88	0.84	0.81	0.80	0.86	0.92	0.78	0.82	0.89	0.91	0.88
1202080208	0.64	0.47	0.49	0.47	0.49	0.44	0.39	0.38	0.47	0.46	0.43	0.38
WESC_3	0.73	0.73	0.71	0.65	0.67	0.69	0.74	0.61	0.75	0.71	0.67	0.67
WESC_2	0.61	0.31	0.31	0.20	0.36	0.36	0.20	0.19	0.23	0.38	0.31	0.30
WESC_1	0.64	0.47	0.48	0.47	0.44	0.45	0.38	0.37	0.48	0.48	0.45	0.41

Table C-50 Total Nitrogen Growing Season Average in West Point Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.53	0.55	0.53	0.53	0.46	0.55	0.46	0.47	0.51	0.61	0.48	0.51
1202080208	0.29	0.27	0.37	0.28	0.31	0.30	0.22	0.26	0.29	0.32	0.24	0.26
WESC_3	0.46	0.46	0.48	0.44	0.43	0.49	0.39	0.39	0.44	0.52	0.41	0.44
WESC_2	0.14	0.09	0.15	0.09	0.14	0.12	0.08	0.09	0.13	0.14	0.10	0.10
WESC_1	0.30	0.27	0.36	0.28	0.31	0.32	0.23	0.27	0.30	0.33	0.25	0.26

Table C-51 Total Phosphorus Growing Season Average in West Point Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1202060802	0.028	0.030	0.028	0.030	0.026	0.032	0.027	0.027	0.031	0.036	0.030	0.032
1202080208	0.019	0.017	0.025	0.018	0.022	0.020	0.015	0.017	0.020	0.022	0.019	0.019
WESC_3	0.024	0.024	0.025	0.024	0.024	0.028	0.022	0.022	0.026	0.030	0.024	0.026
WESC_2	0.011	0.007	0.012	0.006	0.011	0.008	0.007	0.006	0.010	0.010	0.009	0.008
WESC_1	0.017	0.015	0.019	0.017	0.018	0.018	0.013	0.015	0.019	0.020	0.016	0.016

C.2.3 Lake Walter F. George

Table C-52 Lake Walter F. George Stations

Station	Station Description	Latitude	Longitude
1203130102	Lake Walter F. George at U.S. Highway 82	31.891944	-85.120833
1203160102	Lake Walter F. George at Dam Forebay	31.629167	-85.072500
GEOH_6	Deepest point, main river channel, immediately downstream of Florence Marina State Park	32.081785	-85.051611
GEOH_4	Deepest point, main river channel, approximately 0.25 miles upstream of U.S. Highway 82 causeway	31.892933	-85.11962
GEOH_1	Deepest point, main river channel, near dam Forebay; mile 75.4	31.656998	-85.082906

Table C-53 Chlorophyll a Growing Season Average in Walter F. George Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	13	17	21	10	10	9	15	12	9	11	12	13
1203160102	10	11	22	7	9	8	12	7	7	6	8	8
GEOH_6	7	9	24	5	8	6	8	8	2	6	5	6
GEOH_4	13	17	21	10	10	9	15	12	9	11	12	13
GEOH_1	11	12	25	7	9	8	13	8	8	6	8	8

Table C-54 Total Nitrogen Annual Maximum in Walter F. George Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	1.11	1.61	1.01	1.06	1.22	1.36	1.29	1.02	1.23	1.20	1.35	1.22
1203160102	0.93	1.16	0.90	0.83	0.83	0.92	1.03	0.77	0.82	0.66	0.96	0.79
GEOH_6	1.32	2.22	1.18	1.33	1.34	1.54	1.62	1.48	1.58	1.44	1.55	1.52
GEOH_4	1.11	1.61	1.01	1.06	1.22	1.36	1.29	1.02	1.23	1.20	1.35	1.22
GEOH_1	0.96	1.15	0.89	0.84	0.81	0.92	1.03	0.74	0.83	0.65	0.98	0.76

Table C-55 Total Nitrogen Growing Season Average in Walter F. George Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.77	0.98	0.65	0.87	0.69	0.88	0.96	0.76	0.67	0.65	0.74	0.74
1203160102	0.46	0.56	0.57	0.59	0.54	0.43	0.49	0.39	0.40	0.35	0.37	0.33
GEOH_6	0.94	1.22	0.72	0.99	0.76	1.10	1.19	0.97	0.79	0.81	0.94	0.98
GEOH_4	0.77	0.98	0.65	0.87	0.69	0.88	0.96	0.76	0.67	0.65	0.74	0.74
GEOH_1	0.45	0.56	0.57	0.58	0.54	0.43	0.49	0.39	0.40	0.35	0.37	0.33

Table C-56 Total Phosphorus Growing Season Average in Walter F. George Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.051	0.055	0.045	0.047	0.048	0.057	0.048	0.057	0.055	0.044	0.049	0.053
1203160102	0.034	0.035	0.041	0.035	0.039	0.039	0.029	0.036	0.037	0.029	0.031	0.032
GEOH_6	0.060	0.067	0.047	0.054	0.054	0.067	0.059	0.072	0.068	0.053	0.060	0.067
GEOH_4	0.051	0.055	0.045	0.047	0.048	0.057	0.048	0.057	0.055	0.044	0.049	0.053
GEOH_1	0.034	0.034	0.041	0.035	0.039	0.039	0.029	0.035	0.037	0.029	0.031	0.031

Table C-57 Chlorophyll a Growing Season Average in Walter F. George Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	18	28	23	16	11	14	27	21	15	19	23	25
1203160102	14	18	24	11	12	12	21	11	10	8	13	13
GEOH_6	8	13	25	6	7	8	11	14	3	10	8	9
GEOH_4	18	28	23	16	11	14	27	21	15	19	23	25
GEOH_1	15	20	28	12	12	13	22	12	11	9	14	14

Table C-58 Total Nitrogen Annual Maximum in Walter F. George Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	1.92	2.88	1.65	1.87	2.15	2.24	2.60	2.04	1.91	2.30	2.40	2.68
1203160102	1.43	2.05	1.43	1.30	1.34	1.58	1.62	1.50	1.49	1.37	1.86	1.60
GEOH_6	2.71	3.66	1.82	2.40	2.37	2.75	3.10	2.77	2.34	2.84	2.76	3.33
GEOH_4	1.92	2.88	1.65	1.87	2.15	2.24	2.60	2.04	1.91	2.30	2.40	2.68
GEOH_1	1.48	2.00	1.43	1.31	1.35	1.50	1.60	1.52	1.50	1.38	1.82	1.66

Table C-59 Total Nitrogen Growing Season Average in Walter F. George Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	1.17	1.69	0.90	1.46	0.99	1.59	1.82	1.40	1.06	1.16	1.39	1.44
1203160102	0.62	0.88	0.75	0.91	0.71	0.68	0.77	0.64	0.59	0.52	0.63	0.56
GEOH_6	1.50	2.17	1.04	1.72	1.13	2.02	2.34	1.93	1.34	1.51	1.84	2.03
GEOH_4	1.17	1.69	0.90	1.46	0.99	1.59	1.82	1.40	1.06	1.16	1.39	1.44
GEOH_1	0.62	0.88	0.75	0.91	0.71	0.69	0.78	0.65	0.58	0.51	0.63	0.56

Table C-60 Total Phosphorus Growing Season Average in Walter F. George Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.088	0.113	0.068	0.090	0.066	0.096	0.101	0.095	0.077	0.076	0.088	0.094
1203160102	0.053	0.070	0.057	0.062	0.049	0.054	0.055	0.056	0.048	0.045	0.052	0.052
GEOH_6	0.112	0.142	0.079	0.107	0.076	0.118	0.127	0.129	0.101	0.096	0.115	0.130
GEOH_4	0.088	0.113	0.068	0.090	0.066	0.096	0.101	0.095	0.077	0.076	0.088	0.094
GEOH_1	0.052	0.069	0.057	0.062	0.049	0.054	0.055	0.055	0.047	0.044	0.052	0.051

Table C-61 Chlorophyll a Growing Season Average in Walter F. George Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	5	5	15	4	7	2	4	4	5	5	4	4
1203160102	5	4	18	3	6	3	4	4	4	3	3	3
GEOH_6	3	3	16	2	5	2	3	3	1	3	2	2
GEOH_4	5	5	15	4	7	2	4	4	5	5	4	4
GEOH_1	5	4	21	3	6	3	4	4	5	3	3	4

Table C-62 Total Nitrogen Annual Maximum in Walter F. George Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.54	0.45	0.63	0.60	0.74	0.41	0.39	0.59	0.63	0.51	0.41	0.54
1203160102	0.53	0.31	0.39	0.36	0.45	0.34	0.33	0.35	0.42	0.41	0.33	0.35
GEOH_6	0.63	0.54	0.73	0.87	0.99	0.62	0.54	1.25	1.40	0.72	0.83	0.78
GEOH_4	0.54	0.45	0.63	0.60	0.74	0.41	0.39	0.59	0.63	0.51	0.41	0.54
GEOH_1	0.53	0.31	0.40	0.36	0.45	0.34	0.32	0.35	0.40	0.41	0.33	0.32

Table C-63 Total Nitrogen Growing Season Average in Walter F. George Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.26	0.21	0.34	0.28	0.35	0.23	0.21	0.30	0.34	0.26	0.23	0.27
1203160102	0.20	0.13	0.31	0.22	0.31	0.15	0.14	0.19	0.24	0.18	0.14	0.13
GEOH_6	0.27	0.25	0.34	0.30	0.36	0.27	0.25	0.29	0.34	0.29	0.25	0.28
GEOH_4	0.26	0.21	0.34	0.28	0.35	0.23	0.21	0.30	0.34	0.26	0.23	0.27
GEOH_1	0.20	0.13	0.31	0.22	0.31	0.16	0.14	0.19	0.24	0.17	0.14	0.13

Table C-64 Total Phosphorus Growing Season Average in Walter F. George Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.024	0.020	0.031	0.025	0.032	0.021	0.020	0.028	0.031	0.023	0.022	0.025
1203160102	0.022	0.016	0.030	0.021	0.029	0.017	0.016	0.021	0.026	0.020	0.017	0.018
GEOH_6	0.025	0.022	0.031	0.026	0.032	0.023	0.022	0.026	0.031	0.025	0.024	0.026
GEOH_4	0.024	0.020	0.031	0.025	0.032	0.021	0.020	0.028	0.031	0.023	0.022	0.025
GEOH_1	0.021	0.016	0.030	0.022	0.029	0.017	0.016	0.021	0.026	0.020	0.017	0.017

Table C-65 Chlorophyll a Growing Season Average in Walter F. George Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	2	1	3	1	2	0	1	3	3	1	1	2
1203160102	2	1	7	1	3	1	2	2	3	1	1	2
GEOH_6	0	0	1	0	0	0	0	1	1	1	1	2
GEOH_4	2	1	3	1	2	0	1	3	3	1	1	2
GEOH_1	2	1	8	1	3	1	2	2	3	1	1	2

Table C-66 Total Nitrogen Annual Maximum in Walter F. George Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.50	0.18	0.54	0.49	0.61	0.24	0.22	0.48	0.61	0.43	0.26	0.37
1203160102	0.53	0.11	0.28	0.22	0.29	0.16	0.17	0.21	0.30	0.31	0.17	0.21
GEOH_6	0.44	0.35	0.83	0.70	1.22	0.52	0.46	0.84	1.53	0.64	0.44	0.63
GEOH_4	0.50	0.18	0.54	0.49	0.61	0.24	0.22	0.48	0.61	0.43	0.26	0.37
GEOH_1	0.53	0.11	0.28	0.22	0.27	0.16	0.17	0.21	0.29	0.32	0.17	0.21

Table C-67 Total Nitrogen Growing Season Average in Walter F. George Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.14	0.07	0.19	0.13	0.22	0.08	0.08	0.21	0.25	0.12	0.09	0.15
1203160102	0.11	0.07	0.17	0.13	0.19	0.08	0.08	0.12	0.17	0.10	0.07	0.08
GEOH_6	0.14	0.07	0.18	0.14	0.24	0.08	0.09	0.19	0.25	0.13	0.10	0.18
GEOH_4	0.14	0.07	0.19	0.13	0.22	0.08	0.08	0.21	0.25	0.12	0.09	0.15
GEOH_1	0.11	0.07	0.17	0.13	0.19	0.08	0.08	0.12	0.16	0.10	0.07	0.08

Table C-68 Total Phosphorus Growing Season Average in Walter F. George Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.014	0.008	0.019	0.014	0.022	0.009	0.009	0.024	0.026	0.014	0.011	0.017
1203160102	0.014	0.008	0.020	0.014	0.021	0.009	0.010	0.016	0.022	0.014	0.009	0.012
GEOH_6	0.013	0.007	0.018	0.015	0.023	0.009	0.009	0.020	0.025	0.014	0.010	0.019
GEOH_4	0.014	0.008	0.019	0.014	0.022	0.009	0.009	0.024	0.026	0.014	0.011	0.017
GEOH_1	0.014	0.008	0.020	0.014	0.021	0.009	0.010	0.016	0.022	0.014	0.009	0.012

Table C-69 Chlorophyll a Growing Season Average in Walter F. George Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	16	23	22	13	11	12	22	20	17	19	22	24
1203160102	14	16	23	10	12	11	18	13	11	9	14	14
GEOH_6	8	12	25	5	7	7	10	13	3	9	8	8
GEOH_4	16	23	22	13	11	12	22	20	17	19	22	24
GEOH_1	15	17	27	10	12	11	19	14	12	10	15	16

Table C-70 Total Nitrogen Annual Maximum in Walter F. George Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	3.42	4.98	2.79	3.00	3.76	3.56	4.45	3.34	2.90	3.69	3.74	4.48
1203160102	2.12	3.51	2.35	2.28	2.31	2.70	2.98	2.98	2.13	2.45	3.05	2.97
GEOH_6	4.57	6.17	3.20	3.70	4.19	4.33	5.19	4.56	3.65	4.62	4.41	5.50
GEOH_4	3.42	4.98	2.79	3.00	3.76	3.56	4.45	3.34	2.90	3.69	3.74	4.48
GEOH_1	2.19	3.43	2.40	2.27	2.32	2.55	2.95	3.00	2.15	2.48	2.98	3.01

Table C-71 Total Nitrogen Growing Season Average in Walter F. George Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	1.85	2.83	1.31	2.27	1.43	2.64	3.07	2.06	1.47	1.77	2.17	2.17
1203160102	1.04	1.82	1.10	1.56	1.03	1.48	1.69	1.11	0.83	0.86	1.18	1.05
GEOH_6	2.30	3.43	1.54	2.62	1.64	3.20	3.76	2.82	1.93	2.31	2.89	3.19
GEOH_4	1.85	2.83	1.31	2.27	1.43	2.64	3.07	2.06	1.47	1.77	2.17	2.17
GEOH_1	1.04	1.81	1.09	1.55	1.03	1.49	1.70	1.10	0.81	0.84	1.18	1.04

Table C-72 Total Phosphorus Growing Season Average in Walter F. George Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.065	0.077	0.056	0.066	0.057	0.072	0.078	0.080	0.070	0.066	0.075	0.081
1203160102	0.041	0.047	0.049	0.047	0.044	0.041	0.043	0.046	0.043	0.038	0.043	0.042
GEOH_6	0.080	0.096	0.062	0.078	0.064	0.089	0.097	0.108	0.090	0.083	0.097	0.110
GEOH_4	0.065	0.077	0.056	0.066	0.057	0.072	0.078	0.080	0.070	0.066	0.075	0.081
GEOH_1	0.041	0.047	0.049	0.047	0.044	0.041	0.043	0.046	0.042	0.038	0.043	0.042

Table C-73 Chlorophyll a Growing Season Average in Walter F. George Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	6	6	15	5	8	3	5	5	5	5	5	5
1203160102	5	4	19	3	6	3	5	4	5	3	4	4
GEOH_6	3	4	17	3	6	2	3	3	1	3	2	2
GEOH_4	6	6	15	5	8	3	5	5	5	5	5	5
GEOH_1	6	4	22	4	6	3	5	4	5	4	4	4

Table C-74 Total Nitrogen Annual Maximum in Walter F. George Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.61	0.55	0.64	0.64	0.75	0.48	0.46	0.66	0.66	0.57	0.49	0.62
1203160102	0.53	0.38	0.44	0.43	0.51	0.41	0.39	0.43	0.48	0.48	0.39	0.42
GEOH_6	0.71	0.64	0.74	0.96	0.92	0.72	0.62	1.15	1.25	0.77	0.82	0.86
GEOH_4	0.61	0.55	0.64	0.64	0.75	0.48	0.46	0.66	0.66	0.57	0.49	0.62
GEOH_1	0.52	0.37	0.44	0.43	0.51	0.40	0.39	0.42	0.45	0.48	0.39	0.39

Table C-75 Total Nitrogen Growing Season Average in Walter F. George Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.31	0.27	0.39	0.34	0.40	0.29	0.26	0.35	0.39	0.30	0.28	0.32
1203160102	0.24	0.16	0.35	0.26	0.35	0.19	0.17	0.22	0.27	0.20	0.17	0.16
GEOH_6	0.33	0.31	0.39	0.36	0.41	0.34	0.30	0.36	0.40	0.34	0.30	0.34
GEOH_4	0.31	0.27	0.39	0.34	0.40	0.29	0.26	0.35	0.39	0.30	0.28	0.32
GEOH_1	0.23	0.16	0.35	0.26	0.35	0.19	0.17	0.22	0.27	0.20	0.17	0.16

Table C-76 Total Phosphorus Growing Season Average in Walter F. George Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1203130102	0.026	0.022	0.032	0.026	0.033	0.023	0.021	0.028	0.032	0.023	0.023	0.027
1203160102	0.022	0.016	0.032	0.022	0.030	0.017	0.016	0.021	0.027	0.020	0.017	0.018
GEOH_6	0.026	0.024	0.032	0.028	0.033	0.025	0.024	0.027	0.032	0.026	0.025	0.028
GEOH_4	0.026	0.022	0.032	0.026	0.033	0.023	0.021	0.028	0.032	0.023	0.023	0.027
GEOH_1	0.022	0.016	0.031	0.022	0.030	0.017	0.016	0.021	0.026	0.020	0.017	0.017

C.2.4 Lake Blackshear

Table C-77 Lake Blackshear Stations

Station	Station Description	Latitude	Longitude
1106061001	Lake Blackshear - Warwick Dam Forebay	31.8479	-83.9394
L6	Cedar Creek - Mid-lake	31.9045	-83.9259
1106060110	Lake Blackshear - Mid-lake, US Hwy 280	31.9665	-83.9342
L5	Gully Creek - Mid-lake	31.9473	-83.9254
RM 7.2	Rivermile 7.2	31.9722	-83.9331

Table C-78 Chlorophyll a Growing Season Average in Lake Blackshear (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	7	6	3	6	3	6	7	8	7	6	6	7
L6	8	7	2	5	3	6	8	9	6	6	7	8
1106060110	6	7	1	4	2	7	10	9	4	4	8	10
L5	6	7	2	5	2	8	10	10	4	5	8	10
RM 7.2	6	7	1	4	2	7	10	9	4	4	8	10

Table C-79 Total Nitrogen Annual Maximum in Lake Blackshear (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.44	0.49	0.75	0.77	0.76	0.52	0.72	0.63	0.59	0.85	0.36	0.38
L6	0.45	0.58	0.76	0.86	0.78	0.56	0.78	0.64	0.63	0.88	0.37	0.40
1106060110	0.50	0.46	0.80	0.83	0.79	0.56	0.97	0.66	0.71	0.98	0.37	0.40
L5	0.50	0.46	0.78	0.83	0.76	0.56	0.91	0.67	0.70	0.98	0.37	0.41
RM 7.2	0.52	0.43	0.69	0.86	0.72	0.54	0.94	0.66	0.73	0.93	0.35	0.42

Table C-80 Total Nitrogen Growing Season Average in Lake Blackshear (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.27	0.19	0.31	0.30	0.30	0.17	0.26	0.25	0.31	0.27	0.18	0.20
L6	0.29	0.21	0.33	0.31	0.32	0.18	0.27	0.27	0.32	0.28	0.19	0.21
1106060110	0.27	0.22	0.31	0.29	0.29	0.19	0.26	0.28	0.30	0.28	0.20	0.24
L5	0.28	0.22	0.31	0.29	0.30	0.20	0.28	0.28	0.31	0.28	0.20	0.23
RM 7.2	0.27	0.23	0.30	0.28	0.28	0.20	0.27	0.29	0.30	0.28	0.20	0.24

Table C-81 Total Phosphorus Growing Season Average in Lake Blackshear (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.039	0.050	0.028	0.042	0.029	0.050	0.058	0.049	0.037	0.040	0.054	0.058
L6	0.029	0.038	0.024	0.032	0.024	0.039	0.044	0.035	0.028	0.031	0.042	0.043
1106060110	0.025	0.030	0.022	0.028	0.022	0.031	0.034	0.029	0.025	0.027	0.033	0.035
L5	0.026	0.033	0.023	0.029	0.023	0.033	0.037	0.031	0.025	0.028	0.036	0.037
RM 7.2	0.025	0.030	0.022	0.027	0.022	0.030	0.033	0.029	0.024	0.026	0.032	0.035

Table C-82 Chlorophyll a Growing Season Average in Lake Blackshear (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	10	9	3	8	4	8	11	12	9	9	9	12
L6	11	10	3	7	4	10	13	13	7	8	12	15
1106060110	9	12	2	6	2	14	17	14	5	6	16	18
L5	10	12	2	7	3	14	17	15	6	7	16	18
RM 7.2	9	12	2	6	2	14	17	14	5	6	17	18

Table C-83 Total Nitrogen Annual Maximum in Lake Blackshear (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.60	0.55	0.77	0.79	0.78	0.59	0.86	0.68	0.67	0.89	0.67	0.83
L6	0.65	0.60	0.78	0.85	0.80	0.69	0.92	0.70	0.71	0.93	0.71	0.87
1106060110	0.69	0.54	0.82	0.88	0.83	0.69	1.11	0.71	0.78	1.02	0.70	0.84
L5	0.70	0.54	0.80	0.89	0.80	0.70	1.04	0.72	0.78	1.03	0.67	0.84
RM 7.2	0.68	0.55	0.71	0.91	0.76	0.73	1.08	0.74	0.80	0.97	0.70	0.84

Table C-84 Total Nitrogen Growing Season Average in Lake Blackshear (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.34	0.28	0.37	0.38	0.36	0.25	0.36	0.35	0.37	0.35	0.26	0.31
L6	0.37	0.32	0.39	0.40	0.38	0.29	0.39	0.38	0.39	0.37	0.30	0.37
1106060110	0.39	0.36	0.37	0.40	0.37	0.34	0.44	0.44	0.39	0.39	0.37	0.43
L5	0.39	0.36	0.38	0.40	0.37	0.34	0.43	0.43	0.40	0.40	0.36	0.43
RM 7.2	0.39	0.37	0.37	0.39	0.36	0.35	0.44	0.45	0.39	0.39	0.38	0.45

Table C-85 Total Phosphorus Growing Season Average in Lake Blackshear (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.047	0.060	0.032	0.049	0.033	0.060	0.070	0.059	0.044	0.048	0.064	0.070
L6	0.034	0.045	0.028	0.038	0.028	0.045	0.053	0.042	0.032	0.036	0.048	0.051
1106060110	0.031	0.038	0.026	0.033	0.026	0.038	0.044	0.037	0.030	0.033	0.041	0.043
L5	0.032	0.040	0.026	0.034	0.026	0.040	0.047	0.038	0.030	0.033	0.044	0.046
RM 7.2	0.031	0.038	0.026	0.033	0.026	0.038	0.044	0.037	0.029	0.033	0.041	0.043

Table C-86 Chlorophyll a Growing Season Average in Lake Blackshear (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	5	4	1	3	1	4	6	7	5	4	5	6
L6	4	4	1	2	1	4	6	7	4	4	5	7
1106060110	2	2	1	1	1	3	5	4	2	2	5	6
L5	2	3	1	1	1	4	6	6	2	2	5	7
RM 7.2	2	2	1	1	1	3	5	4	2	2	5	6

Table C-87 Total Nitrogen Annual Maximum in Lake Blackshear (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.42	0.42	0.72	0.74	0.73	0.48	0.64	0.57	0.57	0.82	0.33	0.33
L6	0.42	0.43	0.73	0.80	0.74	0.52	0.70	0.59	0.61	0.85	0.34	0.34
1106060110	0.48	0.42	0.78	0.80	0.76	0.52	0.90	0.62	0.68	0.96	0.34	0.35
L5	0.48	0.43	0.75	0.80	0.74	0.52	0.84	0.61	0.68	0.96	0.34	0.35
RM 7.2	0.50	0.39	0.66	0.82	0.69	0.50	0.87	0.59	0.70	0.90	0.32	0.37

Table C-88 Total Nitrogen Growing Season Average in Lake Blackshear (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.26	0.18	0.28	0.28	0.27	0.14	0.22	0.22	0.28	0.26	0.15	0.17
L6	0.27	0.18	0.29	0.27	0.28	0.15	0.22	0.23	0.28	0.25	0.15	0.18
1106060110	0.23	0.19	0.27	0.25	0.26	0.16	0.21	0.24	0.27	0.25	0.16	0.20
L5	0.25	0.19	0.27	0.26	0.26	0.15	0.21	0.24	0.27	0.25	0.16	0.19
RM 7.2	0.23	0.19	0.26	0.24	0.25	0.16	0.20	0.24	0.26	0.25	0.16	0.20

Table C-89 Total Phosphorus Growing Season Average in Lake Blackshear (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.031	0.039	0.023	0.032	0.023	0.039	0.047	0.039	0.030	0.032	0.043	0.046
L6	0.024	0.029	0.020	0.026	0.020	0.029	0.033	0.027	0.023	0.025	0.031	0.031
1106060110	0.019	0.022	0.017	0.020	0.017	0.021	0.024	0.021	0.019	0.020	0.022	0.023
L5	0.021	0.024	0.017	0.022	0.017	0.023	0.026	0.022	0.020	0.021	0.024	0.025
RM 7.2	0.019	0.021	0.016	0.019	0.016	0.020	0.023	0.020	0.018	0.020	0.021	0.022

Table C-90 Chlorophyll a Growing Season Average in Lake Blackshear (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	1	1	0	1	0	2	3	3	1	1	3	3
L6	1	1	0	1	0	1	3	3	1	0	3	3
1106060110	0	0	0	0	0	1	2	1	0	0	1	2
L5	1	1	0	0	0	1	2	2	0	0	2	3
RM 7.2	0	0	0	0	0	1	2	1	0	0	1	2

Table C-91 Total Nitrogen Annual Maximum in Lake Blackshear (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.25	0.18	0.33	0.46	0.45	0.14	0.18	0.17	0.25	0.33	0.12	0.13
L6	0.25	0.17	0.33	0.46	0.46	0.13	0.21	0.16	0.25	0.35	0.12	0.12
1106060110	0.25	0.16	0.36	0.51	0.48	0.12	0.18	0.15	0.27	0.39	0.11	0.12
L5	0.25	0.16	0.36	0.51	0.48	0.12	0.18	0.15	0.27	0.39	0.12	0.12
RM 7.2	0.25	0.15	0.35	0.53	0.48	0.12	0.16	0.15	0.28	0.38	0.12	0.11

Table C-92 Total Nitrogen Growing Season Average in Lake Blackshear (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.12	0.09	0.12	0.12	0.12	0.08	0.10	0.09	0.11	0.12	0.09	0.09
L6	0.11	0.08	0.11	0.11	0.12	0.07	0.09	0.09	0.11	0.11	0.08	0.09
1106060110	0.09	0.07	0.11	0.09	0.11	0.06	0.08	0.08	0.10	0.10	0.08	0.08
L5	0.10	0.07	0.11	0.10	0.11	0.07	0.08	0.08	0.10	0.10	0.08	0.08
RM 7.2	0.09	0.07	0.10	0.09	0.11	0.06	0.08	0.08	0.09	0.09	0.07	0.08

Table C-93 Total Phosphorus Growing Season Average in Lake Blackshear (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.027	0.039	0.018	0.027	0.019	0.038	0.045	0.035	0.023	0.028	0.041	0.046
L6	0.022	0.031	0.016	0.022	0.016	0.029	0.034	0.026	0.019	0.023	0.031	0.035
1106060110	0.016	0.020	0.012	0.015	0.013	0.019	0.023	0.019	0.014	0.016	0.022	0.023
L5	0.017	0.024	0.013	0.017	0.014	0.022	0.027	0.021	0.015	0.018	0.025	0.027
RM 7.2	0.015	0.019	0.012	0.015	0.012	0.019	0.022	0.018	0.013	0.016	0.021	0.023

Table C-94 Chlorophyll a Growing Season Average in Lake Blackshear (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	11	11	3	8	4	11	13	14	9	8	11	15
L6	10	11	3	7	4	13	16	15	7	7	15	18
1106060110	8	9	1	4	2	12	16	12	4	5	16	16
L5	8	10	2	5	3	14	17	14	5	5	17	18
RM 7.2	8	9	1	4	2	12	16	12	4	5	16	16

Table C-95 Total Nitrogen Annual Maximum in Lake Blackshear (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.69	0.67	0.81	0.81	0.79	0.67	0.90	0.71	0.77	0.89	0.81	0.95
L6	0.78	0.70	0.81	0.93	0.80	0.78	0.96	0.78	0.80	0.95	0.87	1.01
1106060110	0.82	0.77	0.86	0.90	0.86	0.79	1.17	0.83	0.89	1.03	0.85	0.95
L5	0.81	0.73	0.83	0.99	0.84	0.79	1.10	0.79	0.90	1.03	0.90	0.95
RM 7.2	0.84	0.79	0.86	0.89	0.76	0.82	1.15	0.88	0.90	0.95	0.87	0.96

Table C-96 Total Nitrogen Growing Season Average in Lake Blackshear (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.42	0.37	0.42	0.45	0.41	0.30	0.41	0.43	0.43	0.44	0.32	0.40
L6	0.46	0.41	0.44	0.46	0.43	0.36	0.46	0.48	0.45	0.45	0.38	0.46
1106060110	0.50	0.48	0.42	0.48	0.42	0.46	0.55	0.56	0.47	0.48	0.49	0.56
L5	0.51	0.47	0.43	0.48	0.43	0.44	0.53	0.54	0.47	0.48	0.46	0.54
RM 7.2	0.50	0.49	0.42	0.47	0.41	0.47	0.56	0.57	0.46	0.47	0.50	0.57

Table C-97 Total Phosphorus Growing Season Average in Lake Blackshear (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.046	0.057	0.032	0.047	0.033	0.058	0.067	0.057	0.043	0.045	0.062	0.068
L6	0.033	0.041	0.028	0.036	0.028	0.041	0.047	0.039	0.032	0.034	0.044	0.045
1106060110	0.030	0.035	0.026	0.032	0.026	0.035	0.039	0.035	0.029	0.031	0.036	0.038
L5	0.032	0.038	0.026	0.033	0.026	0.037	0.042	0.036	0.030	0.032	0.039	0.040
RM 7.2	0.030	0.035	0.026	0.032	0.025	0.035	0.039	0.035	0.029	0.031	0.036	0.039

Table C-98 Chlorophyll a Growing Season Average in Lake Blackshear (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	5	5	2	3	2	5	7	7	5	4	5	7
L6	4	4	1	2	2	5	7	7	4	3	6	8
1106060110	2	3	1	1	1	3	5	5	2	2	5	6
L5	2	3	1	1	1	4	6	6	2	2	6	7
RM 7.2	2	2	1	1	1	3	5	5	2	2	5	6

Table C-99 Total Nitrogen Annual Maximum in Lake Blackshear (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.44	0.43	0.74	0.73	0.73	0.52	0.67	0.58	0.63	0.81	0.36	0.34
L6	0.44	0.45	0.74	0.83	0.74	0.55	0.73	0.60	0.65	0.84	0.36	0.36
1106060110	0.50	0.45	0.80	0.80	0.78	0.57	0.94	0.63	0.76	0.96	0.37	0.36
L5	0.50	0.45	0.77	0.80	0.76	0.57	0.87	0.62	0.77	0.96	0.37	0.36
RM 7.2	0.51	0.41	0.68	0.80	0.68	0.56	0.91	0.59	0.78	0.88	0.37	0.37

Table C-100 Total Nitrogen Growing Season Average in Lake Blackshear (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.27	0.19	0.30	0.29	0.29	0.15	0.23	0.24	0.29	0.27	0.16	0.19
L6	0.29	0.19	0.31	0.28	0.29	0.16	0.23	0.25	0.30	0.26	0.16	0.20
1106060110	0.25	0.20	0.29	0.26	0.27	0.17	0.22	0.26	0.28	0.26	0.17	0.22
L5	0.26	0.20	0.29	0.27	0.27	0.17	0.22	0.25	0.29	0.26	0.17	0.21
RM 7.2	0.25	0.20	0.28	0.25	0.26	0.17	0.22	0.26	0.27	0.25	0.17	0.22

Table C-101 Total Phosphorus Growing Season Average in Lake Blackshear (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106061001	0.032	0.039	0.024	0.033	0.025	0.040	0.047	0.040	0.032	0.033	0.044	0.045
L6	0.025	0.029	0.021	0.026	0.021	0.029	0.033	0.028	0.024	0.026	0.031	0.031
1106060110	0.021	0.022	0.018	0.021	0.018	0.021	0.024	0.022	0.020	0.021	0.022	0.023
L5	0.022	0.024	0.019	0.022	0.019	0.023	0.027	0.023	0.021	0.022	0.025	0.025
RM 7.2	0.020	0.021	0.018	0.021	0.017	0.021	0.024	0.021	0.020	0.021	0.022	0.023

C.2.5 Lake Chehaw

Table C-102 Lake Chehaw Stations

Station	Station Description	Latitude	Longitude
1106090501	Flint River Reservoir – Mid-lake, Flint River Arm	31.608500	-84.119000
1106090502	Flint River Reservoir (Lake Worth) - Dam Forebay	31.603300	-84.136500
1107100301	Lake Worth (original) - Above Hwy 91 Bridge / Diversion Dam	31.610900	-84.150000

Table C-103 Chlorophyll a Growing Season Average in Lake Chehaw (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	4	6	1	4	2	8	7	5	3	4	6	6
1106090502	4	6	1	4	2	7	7	5	3	4	6	6
1107100301	5	8	3	4	3	7	9	6	3	5	7	7

Table C-104 Total Nitrogen Annual Maximum in Lake Chehaw (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	1.96	1.17	1.45	2.22	1.78	1.47	2.10	1.44	2.19	1.98	1.21	1.08
1106090502	2.41	1.24	1.51	2.63	2.28	1.48	2.04	2.87	3.02	2.12	1.21	1.35
1107100301	3.99	2.03	2.58	3.54	3.37	2.03	2.11	5.20	4.28	2.76	1.50	2.07

Table C-105 Total Nitrogen Growing Season Average in Lake Chehaw (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0.84	0.85	0.80	0.93	0.79	0.89	0.95	0.85	0.83	0.77	0.82	0.81
1106090502	0.92	0.89	0.88	1.02	0.87	0.97	0.99	1.23	0.93	0.82	0.85	0.85
1107100301	1.23	1.21	1.31	1.31	1.25	1.16	1.22	2.44	1.23	1.06	0.98	1.03

Table C-106 Total Phosphorus Growing Season Average in Lake Chehaw (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0.054	0.066	0.050	0.065	0.051	0.076	0.071	0.061	0.053	0.054	0.077	0.073
1106090502	0.066	0.076	0.057	0.073	0.057	0.083	0.081	0.092	0.062	0.061	0.082	0.078
1107100301	0.111	0.145	0.103	0.106	0.093	0.111	0.137	0.199	0.098	0.100	0.111	0.101

Table C-107 Chlorophyll a Growing Season Average in Lake Chehaw (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	7	12	2	7	2	14	14	10	5	7	13	13
1106090502	6	11	2	6	2	11	12	9	4	6	12	12
1107100301	3	9	2	3	2	6	10	5	3	5	9	8

Table C-108 Total Nitrogen Annual Maximum in Lake Chehaw (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	2.50	1.99	1.51	2.24	1.87	2.15	2.68	1.81	2.39	2.04	2.96	2.34
1106090502	2.56	2.16	1.56	2.82	2.35	2.30	2.81	2.48	3.29	2.17	2.88	2.41
1107100301	4.14	3.65	2.78	3.76	3.49	3.10	3.92	3.44	4.48	2.90	3.88	4.55

Table C-109 Total Nitrogen Growing Season Average in Lake Chehaw (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	1.21	1.46	0.94	1.28	0.96	1.60	1.64	1.37	1.08	1.15	1.65	1.55
1106090502	1.28	1.52	1.02	1.35	1.04	1.63	1.71	1.43	1.16	1.21	1.72	1.61
1107100301	1.51	1.90	1.45	1.57	1.45	1.70	2.05	1.57	1.45	1.49	1.96	1.78

Table C-110 Total Phosphorus Growing Season Average in Lake Chehaw (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0.078	0.095	0.060	0.082	0.061	0.108	0.108	0.088	0.066	0.074	0.114	0.105
1106090502	0.085	0.103	0.066	0.089	0.067	0.115	0.118	0.095	0.074	0.082	0.122	0.111
1107100301	0.114	0.155	0.103	0.117	0.103	0.137	0.173	0.119	0.104	0.121	0.164	0.140

Table C-111 Chlorophyll a Growing Season Average in Lake Chehaw (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0	0	0	0	0	2	2	2	1	1	0	0
1106090502	0	1	0	0	0	1	2	2	1	1	1	0
1107100301	2	1	1	1	2	2	2	2	1	2	1	1

Table C-112 Total Nitrogen Annual Maximum in Lake Chehaw (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	1.79	1.07	1.39	2.15	1.71	1.39	2.02	1.36	2.08	1.93	0.88	0.94
1106090502	2.32	1.12	1.46	2.34	2.22	1.42	1.95	1.81	2.88	2.07	0.88	1.23
1107100301	3.95	1.49	2.39	3.30	3.33	1.81	1.90	2.95	4.18	2.68	1.17	1.72

Table C-113 Total Nitrogen Growing Season Average in Lake Chehaw (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0.61	0.50	0.67	0.68	0.66	0.53	0.56	0.62	0.69	0.60	0.46	0.51
1106090502	0.69	0.54	0.74	0.77	0.74	0.60	0.59	0.71	0.79	0.65	0.50	0.55
1107100301	0.95	0.75	1.05	1.04	1.08	0.82	0.74	0.92	1.04	0.84	0.73	0.74

Table C-114 Total Phosphorus Growing Season Average in Lake Chehaw (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0.032	0.028	0.035	0.038	0.036	0.031	0.032	0.033	0.037	0.032	0.029	0.029
1106090502	0.036	0.029	0.039	0.043	0.040	0.034	0.033	0.037	0.042	0.034	0.029	0.030
1107100301	0.050	0.043	0.055	0.057	0.058	0.046	0.045	0.050	0.056	0.045	0.042	0.041

Table C-115 Chlorophyll a Growing Season Average in Lake Chehaw (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0	0	0	0	0	0	0	0	0	0	0	0
1106090502	0	0	0	0	0	0	0	0	0	0	0	0
1107100301	0	0	0	0	0	0	0	0	0	0	0	0

Table C-116 Total Nitrogen Annual Maximum in Lake Chehaw (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0.66	0.42	0.79	1.25	1.11	0.49	0.66	0.49	0.74	0.86	0.32	0.26
1106090502	0.89	0.36	0.69	1.02	0.94	0.43	0.56	0.50	0.90	0.82	0.23	0.22
1107100301	1.58	0.19	0.53	1.29	0.84	0.40	0.66	0.59	1.25	1.01	0.21	0.25

Table C-117 Total Nitrogen Growing Season Average in Lake Chehaw (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0.20	0.13	0.27	0.23	0.29	0.14	0.14	0.16	0.24	0.20	0.13	0.12
1106090502	0.21	0.11	0.27	0.21	0.28	0.14	0.13	0.16	0.24	0.21	0.12	0.11
1107100301	0.21	0.09	0.24	0.18	0.28	0.15	0.12	0.16	0.23	0.23	0.11	0.09

Table C-118 Total Phosphorus Growing Season Average in Lake Chehaw (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0.018	0.014	0.024	0.023	0.025	0.016	0.017	0.016	0.022	0.019	0.015	0.015
1106090502	0.019	0.011	0.024	0.020	0.026	0.014	0.014	0.015	0.022	0.019	0.013	0.011
1107100301	0.021	0.009	0.024	0.018	0.027	0.015	0.013	0.016	0.022	0.022	0.013	0.010

Table C-119 Chlorophyll a Growing Season Average in Lake Chehaw (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	4	7	2	4	2	7	6	5	3	4	7	6
1106090502	4	7	2	4	2	7	7	5	3	4	7	7
1107100301	5	12	3	5	2	8	12	6	3	5	10	9

Table C-120 Total Nitrogen Annual Maximum in Lake Chehaw (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	2.96	2.52	1.88	2.29	2.02	2.79	3.20	2.20	2.36	2.03	3.52	2.76
1106090502	2.95	2.69	1.82	3.08	2.67	2.76	3.19	2.94	3.54	2.29	3.33	2.73
1107100301	4.76	3.80	2.99	4.00	4.15	3.09	4.04	3.71	4.48	2.99	3.68	3.91

Table C-121 Total Nitrogen Growing Season Average in Lake Chehaw (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	1.43	1.65	1.08	1.42	1.09	1.89	1.85	1.55	1.20	1.30	1.95	1.74
1106090502	1.47	1.73	1.15	1.49	1.15	1.88	1.92	1.60	1.28	1.35	1.97	1.80
1107100301	1.62	2.17	1.56	1.72	1.47	1.87	2.20	1.71	1.54	1.54	2.04	1.98

Table C-122 Total Phosphorus Growing Season Average in Lake Chehaw (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0.080	0.092	0.063	0.081	0.064	0.107	0.104	0.088	0.068	0.074	0.109	0.100
1106090502	0.089	0.106	0.070	0.092	0.070	0.119	0.121	0.099	0.077	0.083	0.124	0.112
1107100301	0.120	0.180	0.110	0.127	0.103	0.152	0.195	0.132	0.109	0.123	0.184	0.158

Table C-123 Chlorophyll a Growing Season Average in Lake Chehaw (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0	1	0	0	0	1	1	2	1	1	0	0
1106090502	1	1	0	0	0	1	1	1	1	1	0	1
1107100301	2	2	1	1	1	1	2	2	1	2	1	1

Table C-124 Total Nitrogen Annual Maximum in Lake Chehaw (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	2.20	1.11	1.45	2.14	1.81	1.40	2.04	1.37	2.00	1.91	0.89	0.94
1106090502	2.69	1.21	1.48	2.57	2.50	1.47	1.99	2.24	3.09	2.17	0.91	1.33
1107100301	4.31	1.67	2.61	3.67	3.99	2.51	1.94	3.21	4.18	2.83	1.60	1.77

Table C-125 Total Nitrogen Growing Season Average in Lake Chehaw (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0.67	0.55	0.71	0.72	0.70	0.58	0.60	0.66	0.73	0.64	0.51	0.56
1106090502	0.75	0.60	0.79	0.82	0.77	0.68	0.63	0.77	0.83	0.67	0.55	0.61
1107100301	0.97	0.84	1.10	1.10	1.06	0.89	0.78	0.98	1.08	0.82	0.74	0.83

Table C-126 Total Phosphorus Growing Season Average in Lake Chehaw (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1106090501	0.036	0.032	0.039	0.041	0.039	0.035	0.035	0.036	0.041	0.035	0.032	0.033
1106090502	0.039	0.033	0.043	0.046	0.043	0.038	0.036	0.041	0.045	0.036	0.032	0.034
1107100301	0.050	0.045	0.057	0.060	0.057	0.048	0.045	0.051	0.057	0.043	0.041	0.043

C.2.6 Lake Seminole

Table C-127 Lake Seminole Stations

Station	Station Description	Latitude	Longitude
1108080405	Lake Seminole - Flint River Arm @ Spring Creek	30.762700	-84.817100
1204080104	Lake Seminole - Chattahoochee Arm, Lower	30.766200	-84.920100
1204080106	Lake Seminole - Dam Forebay	30.711500	-84.864700

Table C-128 Chlorophyll a Growing Season Average in Lake Seminole (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	9	9	5	8	6	8	6	8	7	6	10	8
1204080104	12	13	17	11	9	10	12	12	6	4	5	6
1204080106	7	7	12	9	7	7	6	6	7	7	9	7

Table C-129 Total Nitrogen Annual Maximum in Lake Seminole (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	1.29	2.27	2.20	1.78	2.42	1.19	1.61	2.53	1.77	1.96	0.88	1.21
1204080104	0.93	1.16	1.15	0.91	0.99	0.94	1.13	1.04	0.97	0.82	1.10	0.95
1204080106	1.09	1.50	1.14	1.31	1.13	1.08	1.37	1.40	1.11	1.47	0.92	1.10

Table C-130 Total Nitrogen Growing Season Average in Lake Seminole (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0.79	0.87	0.84	0.79	0.82	0.71	0.82	1.12	0.84	0.73	0.51	0.57
1204080104	0.58	0.66	0.76	0.67	0.62	0.50	0.59	0.52	0.58	0.52	0.54	0.52
1204080106	0.60	0.68	0.76	0.64	0.69	0.46	0.56	0.71	0.64	0.54	0.43	0.41

Table C-131 Total Phosphorus Growing Season Average in Lake Seminole (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0.035	0.035	0.037	0.039	0.034	0.027	0.025	0.034	0.035	0.033	0.026	0.026
1204080104	0.050	0.051	0.062	0.051	0.055	0.055	0.048	0.047	0.055	0.048	0.053	0.053
1204080106	0.037	0.036	0.059	0.044	0.047	0.035	0.029	0.033	0.042	0.035	0.036	0.029

Table C-132 Chlorophyll a Growing Season Average in Lake Seminole (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	10	11	6	9	7	10	9	10	9	8	12	11
1204080104	18	23	20	18	12	16	23	19	9	6	9	10
1204080106	10	11	14	13	9	10	9	9	9	9	13	11

Table C-133 Total Nitrogen Annual Maximum in Lake Seminole (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	1.99	2.66	2.30	1.97	2.54	1.63	2.21	2.54	2.11	2.07	2.12	2.34
1204080104	1.44	2.01	1.58	1.54	1.31	1.48	1.62	1.53	1.51	1.35	1.78	1.57
1204080106	1.37	1.77	1.45	1.47	1.35	1.40	1.47	1.45	1.34	1.58	1.52	1.65

Table C-134 Total Nitrogen Growing Season Average in Lake Seminole (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	1.17	1.41	1.06	1.22	1.04	1.17	1.21	1.26	1.12	1.12	1.18	1.31
1204080104	0.82	1.04	0.97	1.01	0.81	0.82	0.92	0.87	0.85	0.77	0.89	0.90
1204080106	0.83	1.02	0.95	0.96	0.87	0.74	0.78	0.88	0.87	0.79	0.77	0.80

Table C-135 Total Phosphorus Growing Season Average in Lake Seminole (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0.041	0.044	0.042	0.048	0.041	0.037	0.035	0.042	0.042	0.042	0.033	0.035
1204080104	0.077	0.091	0.082	0.085	0.071	0.082	0.082	0.079	0.078	0.074	0.088	0.091
1204080106	0.052	0.056	0.073	0.067	0.058	0.051	0.047	0.047	0.055	0.049	0.056	0.047

Table C-136 Chlorophyll a Growing Season Average in Lake Seminole (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	3	4	2	2	2	3	2	3	3	2	3	3
1204080104	6	4	14	5	7	4	5	7	4	2	2	3
1204080106	4	3	8	4	5	3	3	3	4	3	4	3

Table C-137 Total Nitrogen Annual Maximum in Lake Seminole (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	1.22	2.32	2.16	1.70	2.37	1.08	1.37	2.44	1.70	1.91	0.79	1.15
1204080104	0.60	0.68	0.83	0.46	0.72	0.53	0.68	0.76	0.76	0.57	0.80	0.53
1204080106	0.93	1.50	1.05	1.17	0.95	0.93	1.10	1.32	0.95	1.42	0.79	0.95

Table C-138 Total Nitrogen Growing Season Average in Lake Seminole (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0.71	0.82	0.76	0.72	0.75	0.51	0.49	0.76	0.76	0.66	0.51	0.59
1204080104	0.27	0.21	0.48	0.28	0.39	0.19	0.19	0.29	0.35	0.23	0.21	0.22
1204080106	0.47	0.51	0.60	0.45	0.57	0.29	0.29	0.52	0.54	0.43	0.27	0.33

Table C-139 Total Phosphorus Growing Season Average in Lake Seminole (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0.019	0.019	0.025	0.022	0.024	0.011	0.010	0.019	0.023	0.018	0.009	0.011
1204080104	0.027	0.021	0.046	0.028	0.038	0.021	0.021	0.026	0.034	0.024	0.023	0.023
1204080106	0.021	0.018	0.042	0.024	0.033	0.014	0.013	0.019	0.025	0.019	0.015	0.012

Table C-140 Chlorophyll a Growing Season Average in Lake Seminole (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0	1	0	0	0	0	0	0	0	0	0	0
1204080104	0	0	0	0	0	0	0	1	1	0	0	0
1204080106	1	1	1	1	1	0	0	1	0	0	0	0

Table C-141 Total Nitrogen Annual Maximum in Lake Seminole (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0.31	0.57	0.63	0.66	0.59	0.32	0.41	0.87	0.50	0.51	0.16	0.24
1204080104	0.22	0.21	0.35	0.26	0.33	0.36	0.30	0.83	0.46	0.35	0.40	0.23
1204080106	0.23	0.42	0.35	0.54	0.42	0.27	0.26	0.67	0.31	0.46	0.14	0.19

Table C-142 Total Nitrogen Growing Season Average in Lake Seminole (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0.13	0.11	0.15	0.13	0.16	0.06	0.07	0.13	0.15	0.13	0.06	0.06
1204080104	0.05	0.03	0.07	0.05	0.09	0.03	0.04	0.10	0.09	0.04	0.04	0.03
1204080106	0.10	0.09	0.13	0.10	0.15	0.05	0.06	0.12	0.12	0.11	0.05	0.05

Table C-143 Total Phosphorus Growing Season Average in Lake Seminole (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0.008	0.008	0.011	0.010	0.011	0.004	0.004	0.009	0.010	0.009	0.003	0.003
1204080104	0.005	0.003	0.008	0.005	0.010	0.003	0.004	0.009	0.009	0.005	0.004	0.003
1204080106	0.007	0.006	0.010	0.008	0.011	0.003	0.004	0.009	0.008	0.007	0.003	0.003

Table C-144 Chlorophyll a Growing Season Average in Lake Seminole (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	10	10	6	9	7	10	9	9	8	8	12	10
1204080104	18	21	19	15	11	16	21	18	9	6	9	10
1204080106	9	10	14	11	9	9	8	8	9	9	12	11

Table C-145 Total Nitrogen Annual Maximum in Lake Seminole (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	1.84	3.11	2.43	2.21	2.68	1.65	2.11	2.73	2.25	2.13	2.00	2.18
1204080104	2.09	3.23	2.46	2.40	2.09	2.43	2.49	2.56	2.17	2.17	2.66	2.40
1204080106	1.94	2.60	2.01	2.08	1.71	2.19	2.17	1.89	1.94	1.69	2.14	2.34

Table C-146 Total Nitrogen Growing Season Average in Lake Seminole (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	1.23	1.46	1.11	1.23	1.08	1.20	1.24	1.29	1.17	1.17	1.24	1.34
1204080104	1.21	1.85	1.26	1.57	1.08	1.47	1.68	1.28	1.11	1.14	1.44	1.43
1204080106	1.05	1.46	1.12	1.29	1.02	1.14	1.24	1.08	1.02	1.00	1.16	1.12

Table C-147 Total Phosphorus Growing Season Average in Lake Seminole (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0.040	0.042	0.041	0.044	0.041	0.035	0.032	0.040	0.041	0.040	0.031	0.033
1204080104	0.071	0.078	0.077	0.075	0.068	0.072	0.076	0.075	0.075	0.069	0.082	0.087
1204080106	0.049	0.051	0.069	0.060	0.057	0.046	0.044	0.045	0.053	0.047	0.053	0.045

Table C-148 Chlorophyll a Growing Season Average in Lake Seminole (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	3	4	2	2	2	3	2	3	3	2	3	3
1204080104	7	5	14	6	7	4	5	7	5	2	3	3
1204080106	4	4	9	5	5	3	3	3	4	4	4	3

Table C-149 Total Nitrogen Annual Maximum in Lake Seminole (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	1.34	2.75	2.31	1.89	2.51	1.15	1.42	2.64	1.82	2.00	0.82	1.22
1204080104	0.64	0.81	0.86	0.53	0.77	0.60	0.72	0.81	0.78	0.61	0.82	0.58
1204080106	1.01	1.73	1.11	1.28	1.00	0.99	1.15	1.37	1.01	1.48	0.82	1.01

Table C-150 Total Nitrogen Growing Season Average in Lake Seminole (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0.78	0.89	0.82	0.77	0.80	0.55	0.51	0.81	0.82	0.72	0.54	0.64
1204080104	0.30	0.25	0.53	0.32	0.43	0.23	0.22	0.32	0.39	0.26	0.24	0.26
1204080106	0.52	0.57	0.66	0.50	0.61	0.32	0.31	0.56	0.58	0.47	0.30	0.37

Table C-151 Total Phosphorus Growing Season Average in Lake Seminole (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1108080405	0.020	0.021	0.026	0.023	0.026	0.012	0.011	0.020	0.025	0.020	0.010	0.012
1204080104	0.028	0.022	0.047	0.030	0.040	0.021	0.022	0.027	0.035	0.024	0.025	0.024
1204080106	0.022	0.020	0.044	0.026	0.035	0.015	0.014	0.020	0.027	0.020	0.016	0.013

C.2.7 Carters Lake

Table C-152 Carters Lake Stations

Station	Station Description	Latitude	Longitude
1402040401	Carters Lake (CR1) - Upper Lake, Coosawattee Arm	34.620870	-84.621200
1402040402	Carters Lake – Mid-lake (upstream from Woodring Branch)	34.607600	-84.638000
Carters Dam Pool	Carters Lake – Dam Forebay	34.613962	- 84.668592
1402050802	Reregulation Reservoir (for Carters Lake) upstream Dam	34.602686	-84.692767

Table C-153 Chlorophyll a Growing Season Average in Carters Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	13	21	13	11	10	9	18	12	7	9	13	6
1402040402	8	21	12	16	9	9	14	8	7	9	12	6
Carters Dam Pool	6	18	11	15	7	8	13	8	5	8	10	5
1402050802	3	4	3	4	3	3	4	3	2	3	4	2

Table C-154 Total Nitrogen Annual Maximum in Carters Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.53	0.38	0.91	1.30	0.61	0.31	0.25	0.37	0.66	0.38	0.40	0.30
1402040402	0.41	0.30	0.58	0.94	0.50	0.29	0.25	0.21	0.45	0.37	0.32	0.24
Carters Dam Pool	0.30	0.24	0.35	0.60	0.33	0.27	0.23	0.20	0.36	0.36	0.23	0.27
1402050802	0.62	0.71	1.00	0.92	0.54	0.51	0.54	0.36	1.08	0.43	0.55	0.79

Table C-155 Total Nitrogen Growing Season Average in Carters Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.31	0.28	0.39	0.35	0.37	0.24	0.17	0.23	0.30	0.24	0.25	0.24
1402040402	0.25	0.21	0.31	0.27	0.29	0.20	0.15	0.17	0.23	0.21	0.21	0.20
Carters Dam Pool	0.22	0.18	0.26	0.24	0.25	0.19	0.15	0.16	0.19	0.21	0.19	0.19
1402050802	0.23	0.17	0.31	0.25	0.26	0.19	0.13	0.16	0.25	0.21	0.21	0.22

Table C-156 Total Phosphorus Growing Season Average in Carters Lake (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.042	0.039	0.047	0.047	0.044	0.035	0.033	0.036	0.042	0.054	0.046	0.015
1402040402	0.026	0.026	0.036	0.033	0.030	0.023	0.022	0.024	0.028	0.029	0.031	0.011
Carters Dam Pool	0.023	0.029	0.034	0.036	0.031	0.026	0.026	0.027	0.024	0.028	0.032	0.014
1402050802	0.016	0.015	0.029	0.023	0.022	0.017	0.015	0.017	0.023	0.018	0.023	0.012

Table C-157 Chlorophyll a Growing Season Average in Carters Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	3	8	5	4	4	3	7	4	3	3	5	5
1402040402	3	8	6	6	4	3	5	3	3	3	4	5
Carters Dam Pool	2	7	6	7	4	3	4	2	2	3	3	4
1402050802	1	2	2	2	2	1	1	1	1	1	2	2

Table C-158 Total Nitrogen Annual Maximum in Carters Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.55	0.56	0.88	1.25	0.61	0.47	0.41	0.51	0.75	0.44	0.47	0.42
1402040402	0.44	0.42	0.61	0.93	0.50	0.40	0.40	0.37	0.55	0.44	0.35	0.34
Carters Dam Pool	0.33	0.38	0.41	0.67	0.41	0.39	0.38	0.33	0.44	0.42	0.31	0.35
1402050802	0.60	0.65	0.94	0.85	0.51	0.53	0.54	0.36	1.04	0.42	0.53	0.72

Table C-159 Total Nitrogen Growing Season Average in Carters Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.41	0.42	0.44	0.43	0.43	0.38	0.36	0.38	0.41	0.34	0.35	0.35
1402040402	0.35	0.34	0.38	0.36	0.36	0.33	0.33	0.32	0.35	0.30	0.30	0.30
Carters Dam Pool	0.30	0.30	0.33	0.32	0.31	0.30	0.30	0.29	0.31	0.28	0.27	0.27
1402050802	0.27	0.26	0.36	0.31	0.30	0.28	0.26	0.27	0.32	0.26	0.28	0.27

Table C-160 Total Phosphorus Growing Season Average in Carters Lake (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.019	0.016	0.029	0.024	0.023	0.014	0.010	0.014	0.023	0.014	0.016	0.014
1402040402	0.012	0.011	0.022	0.017	0.017	0.010	0.008	0.009	0.016	0.010	0.012	0.010
Carters Dam Pool	0.011	0.012	0.020	0.018	0.017	0.012	0.009	0.010	0.013	0.012	0.012	0.011
1402050802	0.011	0.008	0.020	0.014	0.014	0.010	0.007	0.009	0.016	0.011	0.012	0.010

Table C-161 Chlorophyll a Growing Season Average in Carters Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	2	4	4	3	3	2	4	3	2	2	4	4
1402040402	2	5	5	5	3	2	3	2	2	2	3	4
Carters Dam Pool	2	5	5	5	3	2	3	2	2	2	3	3
1402050802	1	1	2	1	1	1	1	1	1	1	1	1

Table C-162 Total Nitrogen Annual Maximum in Carters Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.44	0.28	0.80	1.18	0.51	0.24	0.20	0.28	0.59	0.32	0.28	0.20
1402040402	0.34	0.21	0.48	0.83	0.41	0.24	0.20	0.17	0.40	0.32	0.24	0.19
Carters Dam Pool	0.30	0.19	0.30	0.54	0.28	0.23	0.19	0.14	0.32	0.31	0.17	0.22
1402050802	0.56	0.62	0.87	0.83	0.47	0.44	0.46	0.30	0.98	0.37	0.47	0.69

Table C-163 Total Nitrogen Growing Season Average in Carters Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.22	0.17	0.30	0.26	0.28	0.17	0.12	0.17	0.24	0.16	0.18	0.16
1402040402	0.21	0.15	0.26	0.22	0.24	0.16	0.12	0.14	0.20	0.17	0.16	0.15
Carters Dam Pool	0.20	0.14	0.22	0.20	0.21	0.16	0.12	0.13	0.17	0.17	0.15	0.15
1402050802	0.20	0.15	0.26	0.20	0.22	0.16	0.12	0.14	0.22	0.17	0.18	0.16

Table C-164 Total Phosphorus Growing Season Average in Carters Lake (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.014	0.010	0.026	0.021	0.020	0.010	0.006	0.010	0.019	0.010	0.013	0.010
1402040402	0.010	0.007	0.019	0.015	0.014	0.007	0.005	0.007	0.013	0.008	0.009	0.007
Carters Dam Pool	0.009	0.008	0.017	0.015	0.014	0.008	0.006	0.007	0.010	0.010	0.009	0.009
1402050802	0.010	0.007	0.018	0.012	0.012	0.008	0.005	0.007	0.014	0.009	0.010	0.008

Table C-165 Chlorophyll a Growing Season Average in Carters Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	1	3	3	2	2	1	3	2	1	1	2	3
1402040402	2	4	4	4	2	2	2	1	1	1	2	2
Carters Dam Pool	1	3	4	4	2	2	2	1	1	2	2	2
1402050802	1	1	1	1	1	1	0	0	0	1	1	1

Table C-166 Total Nitrogen Annual Maximum in Carters Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.32	0.16	0.60	0.97	0.33	0.14	0.11	0.17	0.33	0.19	0.16	0.12
1402040402	0.29	0.12	0.33	0.68	0.26	0.14	0.11	0.10	0.24	0.19	0.13	0.11
Carters Dam Pool	0.29	0.11	0.18	0.40	0.17	0.13	0.11	0.08	0.18	0.18	0.09	0.13
1402050802	0.41	0.40	0.63	0.69	0.35	0.27	0.29	0.13	0.70	0.23	0.27	0.50

Table C-167 Total Nitrogen Growing Season Average in Carters Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.14	0.10	0.19	0.17	0.16	0.11	0.07	0.09	0.14	0.10	0.10	0.10
1402040402	0.13	0.09	0.16	0.14	0.14	0.09	0.07	0.07	0.11	0.10	0.09	0.08
Carters Dam Pool	0.13	0.08	0.13	0.12	0.12	0.09	0.07	0.07	0.09	0.09	0.08	0.08
1402050802	0.14	0.08	0.15	0.12	0.12	0.09	0.07	0.07	0.12	0.09	0.09	0.08

Table C-168 Total Phosphorus Growing Season Average in Carters Lake (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.010	0.007	0.021	0.017	0.015	0.007	0.004	0.007	0.015	0.008	0.009	0.007
1402040402	0.007	0.005	0.016	0.013	0.011	0.005	0.004	0.004	0.010	0.006	0.007	0.005
Carters Dam Pool	0.007	0.006	0.013	0.012	0.011	0.006	0.004	0.004	0.007	0.007	0.006	0.006
1402050802	0.007	0.005	0.014	0.010	0.009	0.005	0.003	0.004	0.011	0.006	0.007	0.006

Table C-169 Chlorophyll a Growing Season Average in Carters Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	3	9	6	4	4	4	8	5	3	3	6	6
1402040402	3	9	7	7	5	4	6	3	3	3	5	6
Carters Dam Pool	3	8	6	7	4	4	5	3	3	3	4	5
1402050802	2	2	2	2	2	2	2	1	1	1	2	2

Table C-170 Total Nitrogen Annual Maximum in Carters Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.61	0.59	0.97	1.34	0.68	0.50	0.44	0.55	0.87	0.49	0.53	0.45
1402040402	0.51	0.46	0.67	1.01	0.56	0.45	0.44	0.40	0.62	0.50	0.40	0.37
Carters Dam Pool	0.35	0.41	0.45	0.73	0.45	0.43	0.41	0.36	0.49	0.48	0.34	0.39
1402050802	0.67	0.76	1.06	0.93	0.58	0.60	0.62	0.43	1.17	0.48	0.63	0.81

Table C-171 Total Nitrogen Growing Season Average in Carters Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.45	0.45	0.49	0.47	0.47	0.42	0.38	0.41	0.45	0.37	0.39	0.38
1402040402	0.38	0.37	0.42	0.39	0.40	0.36	0.35	0.35	0.38	0.33	0.33	0.32
Carters Dam Pool	0.33	0.32	0.37	0.35	0.35	0.33	0.32	0.32	0.34	0.31	0.30	0.30
1402050802	0.30	0.29	0.41	0.34	0.34	0.31	0.28	0.30	0.36	0.29	0.31	0.30

Table C-172 Total Phosphorus Growing Season Average in Carters Lake (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.021	0.018	0.032	0.026	0.026	0.016	0.012	0.015	0.026	0.016	0.019	0.016
1402040402	0.014	0.012	0.024	0.019	0.019	0.011	0.009	0.010	0.017	0.012	0.014	0.011
Carters Dam Pool	0.013	0.014	0.022	0.020	0.019	0.013	0.011	0.011	0.014	0.014	0.014	0.013
1402050802	0.012	0.009	0.022	0.016	0.016	0.011	0.008	0.010	0.018	0.011	0.014	0.012

Table C-173 Chlorophyll a Growing Season Average in Carters Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	2	5	4	3	3	2	4	3	2	2	4	4
1402040402	2	5	5	5	3	2	3	2	2	2	3	4
Carters Dam Pool	2	5	5	5	3	2	3	2	2	2	3	3
1402050802	1	1	2	2	1	1	1	1	1	1	1	1

Table C-174 Total Nitrogen Annual Maximum in Carters Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.44	0.29	0.81	1.17	0.52	0.24	0.20	0.28	0.64	0.32	0.29	0.20
1402040402	0.34	0.22	0.50	0.83	0.42	0.25	0.20	0.18	0.41	0.33	0.25	0.20
Carters Dam Pool	0.30	0.19	0.30	0.55	0.28	0.24	0.19	0.14	0.32	0.31	0.18	0.22
1402050802	0.60	0.64	0.89	0.84	0.49	0.45	0.48	0.32	1.03	0.38	0.49	0.70

Table C-175 Total Nitrogen Growing Season Average in Carters Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.23	0.17	0.31	0.26	0.28	0.17	0.12	0.17	0.24	0.17	0.18	0.16
1402040402	0.21	0.15	0.26	0.22	0.24	0.17	0.12	0.14	0.20	0.17	0.17	0.15
Carters Dam Pool	0.20	0.14	0.22	0.20	0.21	0.16	0.12	0.13	0.17	0.17	0.15	0.15
1402050802	0.21	0.15	0.27	0.21	0.22	0.17	0.12	0.15	0.22	0.17	0.18	0.17

Table C-176 Total Phosphorus Growing Season Average in Carters Lake (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1402040401	0.015	0.011	0.027	0.021	0.021	0.010	0.006	0.010	0.021	0.011	0.013	0.011
1402040402	0.011	0.008	0.020	0.015	0.015	0.007	0.005	0.007	0.014	0.008	0.010	0.008
Carters Dam Pool	0.010	0.009	0.018	0.015	0.015	0.009	0.006	0.007	0.010	0.010	0.010	0.009
1402050802	0.010	0.007	0.019	0.012	0.013	0.008	0.005	0.007	0.015	0.009	0.010	0.009

C.2.8 Lake Allatoona

Table C-177 Lake Allatoona Stations

Station	Station Description	Latitude	Longitude
1404080902	Lake Allatoona at Little River upstream from Highway 205	34.158611	-84.577222
1404090401	Lake Allatoona Upstream from Dam	34.160833	-84.725845
1404090404	Lake Allatoona at Allatoona Creek Upstream from Interstate 75	34.085833	-84.711389
1404100104	Lake Allatoona at Etowah River upstream from Sweetwater Creek	34.190000	-84.577778
1404100409	Lake Allatoona downstream from Kellogg Creek	34.138611	-84.639167

Table C-178 Chlorophyll a Growing Season Average in Lake Allatoona (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	13	17	13	11	16	9	18	11	11	13	11	13
1404090401	5	7	7	5	5	5	7	4	4	3	4	4
1404090404	7	18	14	11	10	8	23	5	5	5	6	6
1404100104	9	15	13	10	10	9	18	8	7	9	11	12
1404100409	7	10	9	7	7	6	10	4	4	5	6	6

Table C-179 Total Nitrogen Annual Maximum in Lake Allatoona (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	3.73	4.26	3.12	3.02	2.75	3.70	5.76	3.78	3.01	3.84	4.09	4.95
1404090401	0.61	0.73	0.59	0.67	0.65	0.70	0.63	1.03	0.78	0.59	0.74	0.82
1404090404	0.52	0.54	0.48	0.54	0.50	0.54	0.55	0.67	0.53	0.45	0.57	0.52
1404100104	0.80	0.82	1.06	1.68	0.96	0.91	0.87	0.83	1.40	0.88	0.90	1.54
1404100409	0.77	0.92	0.75	0.83	0.85	0.85	0.84	1.02	0.85	0.74	0.82	0.91

Table C-180 Total Nitrogen Growing Season Average in Lake Allatoona (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	1.29	1.55	1.15	1.17	1.05	1.55	1.80	1.56	1.34	1.35	1.35	1.69
1404090401	0.36	0.36	0.34	0.37	0.36	0.37	0.41	0.43	0.42	0.34	0.36	0.37
1404090404	0.31	0.33	0.29	0.31	0.27	0.28	0.32	0.36	0.34	0.27	0.30	0.30
1404100104	0.40	0.46	0.41	0.45	0.44	0.48	0.49	0.47	0.53	0.43	0.44	0.55
1404100409	0.55	0.57	0.55	0.64	0.57	0.66	0.66	0.61	0.59	0.57	0.58	0.65

Table C-181 Total Phosphorus Growing Season Average in Lake Allatoona (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.045	0.044	0.043	0.045	0.042	0.046	0.043	0.036	0.047	0.037	0.038	0.039
1404090401	0.031	0.031	0.032	0.030	0.031	0.028	0.028	0.027	0.031	0.026	0.028	0.028
1404090404	0.025	0.029	0.026	0.027	0.024	0.025	0.028	0.027	0.027	0.024	0.026	0.026
1404100104	0.035	0.037	0.034	0.033	0.033	0.031	0.035	0.030	0.040	0.031	0.033	0.037
1404100409	0.025	0.022	0.026	0.023	0.025	0.020	0.020	0.019	0.026	0.019	0.020	0.020

Table C-182 Chlorophyll a Growing Season Average in Lake Allatoona (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	9	13	9	7	12	7	14	10	9	11	10	11
1404090401	4	6	6	5	4	4	7	4	4	3	4	4
1404090404	6	17	12	9	8	8	22	4	4	5	6	6
1404100104	7	12	11	9	9	8	15	7	6	8	9	10
1404100409	6	9	8	6	6	6	10	4	4	5	6	6

Table C-183 Total Nitrogen Annual Maximum in Lake Allatoona (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	5.22	5.83	3.90	3.21	4.83	4.54	6.49	5.31	3.63	6.93	6.15	5.70
1404090401	1.11	1.24	1.05	0.97	0.94	1.34	1.44	1.87	1.21	1.18	1.51	1.42
1404090404	0.50	0.63	0.33	0.47	0.34	0.39	0.52	0.76	0.48	0.32	0.52	0.53
1404100104	0.84	1.31	0.91	1.32	0.86	1.33	1.69	1.41	1.19	1.02	1.33	1.38
1404100409	1.31	1.42	1.10	1.18	1.11	1.51	1.98	1.96	1.21	1.41	1.66	1.61

Table C-184 Total Nitrogen Growing Season Average in Lake Allatoona (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	1.97	2.42	1.52	1.65	1.44	2.47	3.17	2.43	1.75	2.34	2.39	2.56
1404090401	0.53	0.67	0.41	0.58	0.43	0.62	0.79	0.74	0.58	0.48	0.59	0.65
1404090404	0.36	0.41	0.24	0.34	0.25	0.31	0.43	0.53	0.35	0.26	0.34	0.38
1404100104	0.48	0.76	0.44	0.58	0.46	0.81	1.07	0.74	0.61	0.56	0.67	0.83
1404100409	0.90	1.08	0.75	0.97	0.74	1.10	1.27	1.07	0.84	0.92	0.97	1.12

Table C-185 Total Phosphorus Growing Season Average in Lake Allatoona (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.034	0.034	0.031	0.032	0.031	0.036	0.039	0.033	0.034	0.033	0.034	0.034
1404090401	0.023	0.026	0.024	0.025	0.025	0.025	0.026	0.025	0.026	0.023	0.025	0.026
1404090404	0.019	0.022	0.019	0.021	0.017	0.020	0.023	0.022	0.020	0.019	0.021	0.021
1404100104	0.025	0.026	0.026	0.027	0.028	0.026	0.028	0.026	0.033	0.026	0.027	0.032
1404100409	0.020	0.020	0.021	0.022	0.022	0.020	0.021	0.020	0.023	0.020	0.020	0.021

Table C-186 Chlorophyll a Growing Season Average in Lake Allatoona (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	4	5	5	3	7	3	4	4	4	4	4	4
1404090401	3	3	4	3	3	2	3	2	2	2	2	2
1404090404	4	10	8	6	6	5	13	2	3	3	4	4
1404100104	5	6	8	5	7	4	6	4	3	5	5	6
1404100409	3	4	5	3	4	2	4	2	2	2	3	3

Table C-187 Total Nitrogen Annual Maximum in Lake Allatoona (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.28	0.36	0.35	0.38	0.54	0.38	0.41	0.36	0.53	0.37	0.31	0.34
1404090401	0.33	0.23	0.24	0.20	0.18	0.25	0.26	0.15	0.31	0.24	0.19	0.21
1404090404	0.39	0.44	0.30	0.35	0.33	0.36	0.36	0.45	0.36	0.28	0.45	0.34
1404100104	0.65	0.65	0.88	1.27	0.72	0.70	0.67	0.42	1.12	0.68	0.64	1.27
1404100409	0.37	0.31	0.43	0.33	0.28	0.42	0.38	0.21	0.53	0.35	0.24	0.33

Table C-188 Total Nitrogen Growing Season Average in Lake Allatoona (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.18	0.16	0.18	0.17	0.20	0.15	0.12	0.16	0.21	0.15	0.16	0.17
1404090401	0.12	0.10	0.13	0.11	0.13	0.09	0.09	0.10	0.13	0.10	0.11	0.10
1404090404	0.14	0.15	0.14	0.14	0.13	0.14	0.16	0.14	0.15	0.13	0.15	0.15
1404100104	0.22	0.18	0.23	0.21	0.27	0.17	0.14	0.18	0.25	0.19	0.20	0.24
1404100409	0.13	0.09	0.15	0.12	0.16	0.09	0.08	0.10	0.16	0.10	0.12	0.10

Table C-189 Total Phosphorus Growing Season Average in Lake Allatoona (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.014	0.015	0.015	0.014	0.016	0.014	0.013	0.014	0.019	0.013	0.014	0.014
1404090401	0.018	0.019	0.019	0.018	0.019	0.018	0.019	0.018	0.020	0.017	0.019	0.019
1404090404	0.018	0.021	0.018	0.019	0.016	0.020	0.023	0.021	0.020	0.018	0.021	0.021
1404100104	0.021	0.022	0.023	0.021	0.023	0.021	0.022	0.021	0.028	0.021	0.024	0.026
1404100409	0.014	0.014	0.016	0.014	0.015	0.014	0.014	0.014	0.017	0.013	0.015	0.015

Table C-190 Chlorophyll a Growing Season Average in Lake Allatoona (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	3	3	4	2	6	2	2	2	3	3	2	3
1404090401	2	3	4	2	2	2	3	2	2	1	2	1
1404090404	4	9	8	5	5	4	12	2	3	3	3	3
1404100104	4	4	7	4	6	3	4	3	3	3	4	4
1404100409	3	3	4	3	3	2	3	1	2	2	2	2

Table C-191 Total Nitrogen Annual Maximum in Lake Allatoona (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.38	0.53	0.51	0.45	0.44	0.60	0.55	0.40	0.82	0.48	0.45	0.32
1404090401	0.33	0.20	0.23	0.17	0.15	0.24	0.24	0.12	0.31	0.23	0.15	0.16
1404090404	0.40	0.44	0.33	0.39	0.35	0.39	0.39	0.51	0.39	0.32	0.47	0.38
1404100104	0.64	0.60	0.87	1.39	0.69	0.72	0.66	0.35	1.18	0.62	0.53	1.38
1404100409	0.33	0.28	0.40	0.27	0.23	0.43	0.35	0.16	0.54	0.32	0.20	0.25

Table C-192 Total Nitrogen Growing Season Average in Lake Allatoona (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.12	0.10	0.14	0.12	0.16	0.09	0.07	0.10	0.18	0.10	0.11	0.11
1404090401	0.10	0.08	0.12	0.09	0.12	0.08	0.08	0.08	0.11	0.09	0.09	0.08
1404090404	0.14	0.15	0.15	0.14	0.13	0.14	0.16	0.14	0.16	0.13	0.15	0.14
1404100104	0.16	0.12	0.18	0.17	0.23	0.11	0.09	0.12	0.21	0.14	0.15	0.20
1404100409	0.10	0.07	0.12	0.09	0.13	0.07	0.06	0.08	0.13	0.08	0.09	0.08

Table C-193 Total Phosphorus Growing Season Average in Lake Allatoona (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.010	0.010	0.013	0.011	0.014	0.009	0.009	0.010	0.019	0.010	0.011	0.010
1404090401	0.016	0.018	0.019	0.017	0.018	0.017	0.018	0.017	0.019	0.016	0.018	0.017
1404090404	0.018	0.022	0.019	0.020	0.017	0.020	0.023	0.022	0.021	0.018	0.021	0.021
1404100104	0.019	0.019	0.021	0.020	0.022	0.018	0.020	0.018	0.028	0.019	0.022	0.025
1404100409	0.013	0.013	0.015	0.013	0.015	0.013	0.014	0.013	0.017	0.012	0.014	0.014

Table C-194 Chlorophyll a Growing Season Average in Lake Allatoona (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	8	12	8	7	11	7	14	9	8	10	9	11
1404090401	4	6	6	4	4	4	7	4	3	2	4	4
1404090404	5	16	11	9	8	7	22	4	4	5	6	6
1404100104	7	11	10	8	8	8	15	7	5	7	9	10
1404100409	6	9	7	6	6	6	10	4	4	5	6	6

Table C-195 Total Nitrogen Annual Maximum in Lake Allatoona (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	5.08	5.93	3.99	3.14	5.13	4.54	6.44	5.74	3.76	6.80	6.18	5.56
1404090401	1.12	1.22	1.07	0.95	0.95	1.32	1.50	1.80	1.18	1.20	1.49	1.39
1404090404	0.48	0.59	0.31	0.48	0.31	0.36	0.50	0.71	0.45	0.30	0.50	0.50
1404100104	0.84	1.27	0.95	1.06	0.82	1.32	1.71	1.43	1.18	0.97	1.30	1.27
1404100409	1.31	1.43	1.11	1.19	1.13	1.53	1.98	1.96	1.22	1.41	1.65	1.56

Table C-196 Total Nitrogen Growing Season Average in Lake Allatoona (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	1.94	2.37	1.51	1.59	1.42	2.43	3.12	2.39	1.70	2.32	2.31	2.49
1404090401	0.52	0.66	0.40	0.58	0.42	0.62	0.78	0.73	0.57	0.48	0.58	0.65
1404090404	0.35	0.40	0.23	0.33	0.24	0.30	0.42	0.50	0.33	0.25	0.33	0.37
1404100104	0.46	0.74	0.43	0.55	0.43	0.80	1.07	0.72	0.58	0.55	0.65	0.81
1404100409	0.89	1.07	0.74	0.95	0.73	1.09	1.27	1.05	0.82	0.92	0.97	1.12

Table C-197 Total Phosphorus Growing Season Average in Lake Allatoona (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.032	0.032	0.028	0.029	0.027	0.035	0.039	0.032	0.028	0.031	0.033	0.033
1404090401	0.022	0.024	0.022	0.024	0.022	0.024	0.025	0.024	0.024	0.021	0.023	0.025
1404090404	0.018	0.021	0.017	0.019	0.016	0.019	0.022	0.021	0.019	0.018	0.020	0.020
1404100104	0.023	0.025	0.024	0.024	0.025	0.026	0.027	0.025	0.029	0.025	0.026	0.030
1404100409	0.019	0.019	0.019	0.021	0.020	0.019	0.020	0.019	0.020	0.019	0.019	0.021

Table C-198 Chlorophyll a Growing Season Average in Lake Allatoona (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	3	4	4	3	5	2	4	3	3	3	3	4
1404090401	2	3	4	2	2	2	3	2	2	1	2	2
1404090404	4	10	8	6	5	4	13	2	3	3	3	3
1404100104	5	6	7	5	6	4	6	4	3	4	5	5
1404100409	3	4	5	3	3	2	4	2	2	2	3	3

Table C-199 Total Nitrogen Annual Maximum in Lake Allatoona (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.27	0.31	0.22	0.25	0.28	0.27	0.23	0.24	0.27	0.20	0.23	0.30
1404090401	0.33	0.21	0.20	0.18	0.16	0.21	0.22	0.14	0.25	0.20	0.17	0.19
1404090404	0.37	0.42	0.27	0.32	0.30	0.34	0.36	0.43	0.33	0.28	0.43	0.32
1404100104	0.58	0.57	0.77	0.98	0.68	0.57	0.55	0.38	0.91	0.61	0.56	1.10
1404100409	0.32	0.29	0.35	0.29	0.23	0.35	0.31	0.19	0.44	0.31	0.22	0.30

Table C-200 Total Nitrogen Growing Season Average in Lake Allatoona (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.16	0.15	0.16	0.15	0.16	0.15	0.13	0.15	0.17	0.14	0.15	0.16
1404090401	0.11	0.09	0.12	0.10	0.12	0.09	0.09	0.09	0.12	0.09	0.10	0.09
1404090404	0.13	0.14	0.13	0.13	0.12	0.14	0.16	0.14	0.14	0.13	0.14	0.14
1404100104	0.20	0.17	0.21	0.19	0.23	0.16	0.14	0.18	0.23	0.18	0.19	0.23
1404100409	0.12	0.09	0.14	0.11	0.14	0.09	0.08	0.10	0.13	0.10	0.11	0.10

Table C-201 Total Phosphorus Growing Season Average in Lake Allatoona (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1404080902	0.011	0.012	0.011	0.011	0.011	0.012	0.013	0.012	0.013	0.011	0.012	0.013
1404090401	0.016	0.017	0.017	0.016	0.016	0.017	0.018	0.017	0.017	0.015	0.017	0.017
1404090404	0.017	0.020	0.016	0.018	0.015	0.019	0.022	0.020	0.018	0.017	0.019	0.020
1404100104	0.019	0.021	0.021	0.019	0.020	0.020	0.022	0.020	0.024	0.020	0.022	0.025
1404100409	0.012	0.013	0.014	0.013	0.013	0.013	0.013	0.013	0.014	0.012	0.013	0.014

C.2.9 Lake Chatuge

Table C-202 Lake Chatuge Stations

Station	Station Description	Latitude	Longitude
1502010501	Lake Chatuge LMP 12 at State Line (aka Hiawasse River)	34.983333	-83.788611

Table C-203 Chlorophyll a Growing Season Average in Lake Chatuge (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	3	2	5	3	4	2	2	2	3	3	3	3

Table C-204 Total Nitrogen Annual Maximum in Lake Chatuge (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.19	0.18	0.22	0.15	0.19	0.17	0.19	0.10	0.22	0.31	0.23	0.15

Table C-205 Total Nitrogen Growing Season Average in Lake Chatuge (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.09	0.08	0.15	0.09	0.13	0.08	0.06	0.07	0.10	0.11	0.10	0.09

Table C-206 Total Phosphorus Growing Season Average in Lake Chatuge (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.011	0.010	0.017	0.011	0.014	0.010	0.009	0.009	0.011	0.013	0.013	0.011

Table C-207 Chlorophyll a Growing Season Average in Lake Chatuge (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	3	2	5	3	4	2	2	2	3	3	3	3

Table C-208 Total Nitrogen Annual Maximum in Lake Chatuge (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.19	0.18	0.22	0.16	0.19	0.18	0.21	0.10	0.21	0.31	0.23	0.16

Table C-209 Total Nitrogen Growing Season Average in Lake Chatuge (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.09	0.08	0.15	0.09	0.13	0.08	0.06	0.07	0.10	0.11	0.10	0.09

Table C-210 Total Phosphorus Growing Season Average in Lake Chatuge (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.011	0.010	0.017	0.011	0.014	0.010	0.009	0.009	0.011	0.013	0.013	0.011

Table C-211 Chlorophyll a Growing Season Average in Lake Chatuge (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	3	2	5	3	4	2	2	2	3	3	3	3

Table C-212 Total Nitrogen Annual Maximum in Lake Chatuge (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.19	0.18	0.22	0.15	0.19	0.17	0.20	0.10	0.20	0.31	0.23	0.15

Table C-213 Total Nitrogen Growing Season Average in Lake Chatuge (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.10	0.08	0.15	0.09	0.13	0.08	0.06	0.07	0.10	0.11	0.10	0.09

Table C-214 Total Phosphorus Growing Season Average in Lake Chatuge (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.011	0.010	0.017	0.011	0.014	0.010	0.009	0.009	0.011	0.013	0.013	0.011

Table C-215 Chlorophyll a Growing Season Average in Lake Chatuge (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	2	2	4	2	3	2	2	2	2	3	3	2

Table C-216 Total Nitrogen Annual Maximum in Lake Chatuge (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.15	0.17	0.19	0.13	0.16	0.16	0.18	0.09	0.20	0.27	0.20	0.13

Table C-217 Total Nitrogen Growing Season Average in Lake Chatuge (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.08	0.07	0.13	0.08	0.11	0.06	0.05	0.06	0.08	0.10	0.09	0.07

Table C-218 Total Phosphorus Growing Season Average in Lake Chatuge (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.008	0.007	0.013	0.008	0.011	0.007	0.007	0.007	0.008	0.011	0.010	0.008

Table C-219 Chlorophyll a Growing Season Average in Lake Chatuge (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	3	3	5	3	4	2	2	2	3	3	3	3

Table C-220 Total Nitrogen Annual Maximum in Lake Chatuge (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.20	0.19	0.23	0.15	0.19	0.18	0.20	0.11	0.24	0.31	0.23	0.18

Table C-221 Total Nitrogen Growing Season Average in Lake Chatuge (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.10	0.08	0.16	0.09	0.13	0.08	0.06	0.07	0.10	0.11	0.10	0.09

Table C-222 Total Phosphorus Growing Season Average in Lake Chatuge (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.011	0.010	0.017	0.011	0.014	0.010	0.009	0.009	0.011	0.014	0.013	0.011

Table C-223 Chlorophyll a Growing Season Average in Lake Chatuge (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	3	2	5	3	4	2	2	2	3	3	3	3

Table C-224 Total Nitrogen Annual Maximum in Lake Chatuge (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.19	0.18	0.23	0.16	0.19	0.18	0.20	0.11	0.24	0.31	0.23	0.16

Table C-225 Total Nitrogen Growing Season Average in Lake Chatuge (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.10	0.08	0.16	0.09	0.13	0.08	0.06	0.07	0.10	0.11	0.10	0.09

Table C-226 Total Phosphorus Growing Season Average in Lake Chatuge (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502010501	0.011	0.010	0.017	0.011	0.014	0.010	0.009	0.009	0.011	0.014	0.013	0.011

C.2.10 Lake Nottely

Table C-227 Lake Nottely Stations

Station	Station Description	Latitude	Longitude
1502080601	Lake Nottely (LMP15A) at Reece Creek	34.911520	-84.050600
1502080602	Lake Nottely - Dam Forebay (aka Nottely River - Upstream)	34.957778	-84.092222

Table C-228 Chlorophyll a Growing Season Average in Lake Nottely (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	7	5	8	7	8	6	4	4	7	6	6	6
1502080602	5	4	6	6	6	5	4	4	4	6	7	4

Table C-229 Total Nitrogen Annual Maximum in Lake Nottely (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.38	0.64	0.60	0.52	0.37	0.68	0.40	0.30	0.73	0.86	0.45	0.34
1502080602	0.14	0.21	0.21	0.21	0.21	0.23	0.20	0.13	0.32	0.43	0.21	0.13

Table C-230 Total Nitrogen Growing Season Average in Lake Nottely (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.11	0.08	0.14	0.13	0.12	0.09	0.06	0.08	0.11	0.09	0.12	0.09
1502080602	0.05	0.05	0.07	0.07	0.07	0.05	0.05	0.04	0.05	0.07	0.07	0.04

Table C-231 Total Phosphorus Growing Season Average in Lake Nottely (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.011	0.010	0.013	0.024	0.015	0.013	0.008	0.007	0.010	0.010	0.015	0.008
1502080602	0.007	0.006	0.008	0.015	0.012	0.008	0.008	0.005	0.005	0.008	0.011	0.005

Table C-232 Chlorophyll a Growing Season Average in Lake Nottely (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	8	6	9	7	8	7	5	5	8	7	7	7
1502080602	5	5	7	6	6	5	4	4	5	6	7	4

Table C-233 Total Nitrogen Annual Maximum in Lake Nottely (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.41	0.64	0.61	0.54	0.37	0.69	0.43	0.31	0.75	0.87	0.46	0.35
1502080602	0.16	0.24	0.23	0.23	0.22	0.25	0.22	0.15	0.34	0.46	0.22	0.15

Table C-234 Total Nitrogen Growing Season Average in Lake Nottely (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.12	0.09	0.14	0.13	0.13	0.10	0.08	0.08	0.12	0.10	0.13	0.10
1502080602	0.06	0.06	0.07	0.08	0.07	0.06	0.05	0.05	0.05	0.07	0.07	0.04

Table C-235 Total Phosphorus Growing Season Average in Lake Nottely (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.015	0.015	0.015	0.017	0.015	0.016	0.017	0.016	0.016	0.015	0.019	0.016
1502080602	0.009	0.009	0.009	0.011	0.011	0.010	0.011	0.010	0.010	0.011	0.013	0.008

Table C-236 Chlorophyll a Growing Season Average in Lake Nottely (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	7	4	8	6	8	6	4	4	7	6	6	6
1502080602	5	4	6	5	6	5	4	4	4	6	7	4

Table C-237 Total Nitrogen Annual Maximum in Lake Nottely (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.38	0.63	0.59	0.50	0.37	0.65	0.43	0.29	0.74	0.86	0.46	0.33
1502080602	0.14	0.21	0.22	0.21	0.21	0.23	0.21	0.14	0.33	0.44	0.21	0.16

Table C-238 Total Nitrogen Growing Season Average in Lake Nottely (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.11	0.09	0.14	0.12	0.12	0.09	0.06	0.08	0.11	0.09	0.12	0.09
1502080602	0.05	0.05	0.07	0.07	0.07	0.05	0.05	0.05	0.05	0.07	0.07	0.04

Table C-239 Total Phosphorus Growing Season Average in Lake Nottely (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.007	0.006	0.010	0.010	0.010	0.008	0.004	0.005	0.009	0.008	0.012	0.008
1502080602	0.005	0.005	0.006	0.007	0.008	0.006	0.005	0.004	0.005	0.008	0.010	0.004

Table C-240 Chlorophyll a Growing Season Average in Lake Nottely (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	5	3	5	5	6	5	3	3	6	5	5	5
1502080602	4	3	5	4	5	4	3	3	4	5	6	3

Table C-241 Total Nitrogen Annual Maximum in Lake Nottely (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.27	0.56	0.52	0.38	0.35	0.62	0.36	0.21	0.68	0.83	0.40	0.34
1502080602	0.10	0.18	0.17	0.16	0.21	0.20	0.19	0.12	0.29	0.41	0.18	0.15

Table C-242 Total Nitrogen Growing Season Average in Lake Nottely (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.08	0.07	0.12	0.10	0.11	0.07	0.05	0.07	0.09	0.07	0.10	0.08
1502080602	0.04	0.05	0.06	0.06	0.06	0.05	0.04	0.04	0.04	0.06	0.06	0.04

Table C-243 Total Phosphorus Growing Season Average in Lake Nottely (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.005	0.005	0.008	0.008	0.009	0.006	0.003	0.004	0.007	0.006	0.011	0.007
1502080602	0.004	0.004	0.005	0.005	0.007	0.005	0.004	0.003	0.004	0.007	0.009	0.003

Table C-244 Chlorophyll a Growing Season Average in Lake Nottely (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	9	7	9	8	9	8	7	6	8	8	8	8
1502080602	6	6	7	7	7	6	5	5	5	7	8	5

Table C-245 Total Nitrogen Annual Maximum in Lake Nottely (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.46	0.67	0.65	0.59	0.39	0.73	0.46	0.36	0.71	0.89	0.48	0.40
1502080602	0.18	0.27	0.26	0.26	0.23	0.27	0.23	0.18	0.35	0.47	0.23	0.17

Table C-246 Total Nitrogen Growing Season Average in Lake Nottely (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.14	0.11	0.16	0.15	0.14	0.12	0.10	0.10	0.14	0.12	0.14	0.12
1502080602	0.07	0.07	0.08	0.09	0.08	0.06	0.06	0.06	0.06	0.08	0.08	0.05

Table C-247 Total Phosphorus Growing Season Average in Lake Nottely (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.013	0.011	0.014	0.015	0.014	0.014	0.011	0.011	0.015	0.013	0.017	0.013
1502080602	0.008	0.008	0.009	0.010	0.010	0.008	0.008	0.008	0.008	0.010	0.013	0.007

Table C-248 Chlorophyll a Growing Season Average in Lake Nottely (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	7	5	8	7	8	6	4	4	7	7	7	6
1502080602	5	4	6	6	6	5	4	4	4	6	7	4

Table C-249 Total Nitrogen Annual Maximum in Lake Nottely (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.40	0.64	0.61	0.54	0.37	0.65	0.41	0.31	0.69	0.87	0.46	0.35
1502080602	0.14	0.22	0.23	0.21	0.21	0.24	0.20	0.13	0.33	0.45	0.21	0.16

Table C-250 Total Nitrogen Growing Season Average in Lake Nottely (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.11	0.09	0.14	0.13	0.13	0.09	0.06	0.08	0.12	0.10	0.12	0.10
1502080602	0.05	0.05	0.07	0.07	0.07	0.05	0.05	0.05	0.05	0.07	0.07	0.04

Table C-251 Total Phosphorus Growing Season Average in Lake Nottely (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1502080601	0.009	0.007	0.011	0.011	0.012	0.010	0.005	0.006	0.011	0.009	0.014	0.009
1502080602	0.006	0.005	0.007	0.007	0.009	0.006	0.006	0.005	0.005	0.008	0.011	0.005

C.2.11 Lake Blue Ridge

Table C-252 Lake Blue Ridge Stations

Station	Station Description	Latitude	Longitude
1503010701	Lake Blue Ridge (LMP18) - 300 meter upstream of Dam	34.881667	-84.280000
1503010702	Lake Blue Ridge (LMP18A) - 4 miles upstream Dam	34.840170	-84.273100

Table C-253 Chlorophyll a Growing Season Average in Lake Blue Ridge (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	3	2	4	3	3	2	2	2	3	3	4	2
1503010702	3	3	4	3	4	3	2	2	3	3	4	4

Table C-254 Total Nitrogen Annual Maximum in Lake Blue Ridge (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.30	0.21	0.25	0.24	0.21	0.22	0.21	0.14	0.26	0.34	0.33	0.20
1503010702	0.43	0.21	0.31	0.25	0.30	0.20	0.22	0.25	0.27	0.29	0.49	0.37

Table C-255 Total Nitrogen Growing Season Average in Lake Blue Ridge (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.09	0.06	0.11	0.08	0.09	0.07	0.06	0.07	0.08	0.09	0.11	0.08
1503010702	0.14	0.11	0.17	0.14	0.15	0.12	0.10	0.11	0.14	0.12	0.14	0.15

Table C-256 Total Phosphorus Growing Season Average in Lake Blue Ridge (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.010	0.009	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.010	0.012	0.010
1503010702	0.016	0.015	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.014	0.017	0.018

Table C-257 Chlorophyll a Growing Season Average in Lake Blue Ridge (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	3	2	4	3	3	2	2	2	3	3	4	2
1503010702	3	3	4	3	4	3	2	2	3	3	4	4

Table C-258 Total Nitrogen Annual Maximum in Lake Blue Ridge (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.30	0.21	0.25	0.24	0.21	0.22	0.21	0.14	0.26	0.34	0.33	0.20
1503010702	0.43	0.21	0.31	0.25	0.30	0.20	0.22	0.25	0.27	0.29	0.49	0.37

Table C-259 Total Nitrogen Growing Season Average in Lake Blue Ridge (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.09	0.06	0.11	0.08	0.09	0.07	0.06	0.07	0.08	0.09	0.11	0.08
1503010702	0.14	0.11	0.17	0.14	0.15	0.12	0.10	0.11	0.14	0.12	0.14	0.15

Table C-260 Total Phosphorus Growing Season Average in Lake Blue Ridge (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.010	0.009	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.010	0.012	0.010
1503010702	0.016	0.015	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.014	0.017	0.018

Table C-261 Chlorophyll a Growing Season Average in Lake Blue Ridge (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	2	2	3	2	3	2	1	1	2	2	3	2
1503010702	3	2	4	3	3	2	1	2	3	3	3	3

Table C-262 Total Nitrogen Annual Maximum in Lake Blue Ridge (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.30	0.16	0.21	0.19	0.18	0.19	0.17	0.10	0.24	0.32	0.28	0.17
1503010702	0.38	0.18	0.30	0.23	0.30	0.17	0.16	0.14	0.26	0.27	0.48	0.34

Table C-263 Total Nitrogen Growing Season Average in Lake Blue Ridge (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.08	0.06	0.10	0.08	0.09	0.07	0.06	0.07	0.08	0.08	0.10	0.07
1503010702	0.12	0.09	0.15	0.11	0.13	0.10	0.07	0.09	0.12	0.10	0.12	0.12

Table C-264 Total Phosphorus Growing Season Average in Lake Blue Ridge (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.006	0.005	0.008	0.006	0.007	0.005	0.004	0.005	0.006	0.006	0.009	0.006
1503010702	0.009	0.007	0.011	0.009	0.010	0.008	0.005	0.007	0.010	0.007	0.010	0.009

Table C-265 Chlorophyll a Growing Season Average in Lake Blue Ridge (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	2	1	3	2	2	1	1	1	2	2	3	2
1503010702	2	2	3	2	3	2	1	2	2	3	3	3

Table C-266 Total Nitrogen Annual Maximum in Lake Blue Ridge (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.29	0.15	0.20	0.17	0.17	0.18	0.16	0.10	0.23	0.31	0.26	0.16
1503010702	0.36	0.17	0.28	0.22	0.30	0.16	0.15	0.13	0.25	0.26	0.47	0.33

Table C-267 Total Nitrogen Growing Season Average in Lake Blue Ridge (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.08	0.06	0.09	0.08	0.08	0.07	0.05	0.07	0.08	0.07	0.10	0.07
1503010702	0.11	0.09	0.14	0.11	0.12	0.09	0.07	0.09	0.12	0.10	0.12	0.12

Table C-268 Total Phosphorus Growing Season Average in Lake Blue Ridge (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.006	0.005	0.008	0.006	0.007	0.005	0.004	0.004	0.006	0.006	0.009	0.005
1503010702	0.008	0.007	0.011	0.008	0.009	0.007	0.005	0.006	0.010	0.007	0.010	0.009

Table C-269 Chlorophyll a Growing Season Average in Lake Blue Ridge (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	3	2	4	3	3	2	2	2	3	3	4	2
1503010702	3	3	4	3	4	3	2	2	3	3	4	4

Table C-270 Total Nitrogen Annual Maximum in Lake Blue Ridge (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.30	0.21	0.25	0.25	0.21	0.22	0.21	0.14	0.26	0.35	0.33	0.20
1503010702	0.43	0.22	0.31	0.25	0.30	0.20	0.22	0.25	0.27	0.29	0.50	0.37

Table C-271 Total Nitrogen Growing Season Average in Lake Blue Ridge (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.09	0.07	0.11	0.09	0.09	0.07	0.06	0.07	0.08	0.09	0.11	0.08
1503010702	0.14	0.11	0.17	0.14	0.15	0.12	0.10	0.11	0.14	0.12	0.14	0.15

Table C-272 Total Phosphorus Growing Season Average in Lake Blue Ridge (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.010	0.009	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.010	0.012	0.010
1503010702	0.016	0.015	0.017	0.016	0.016	0.016	0.016	0.016	0.016	0.014	0.017	0.018

Table C-273 Chlorophyll a Growing Season Average in Lake Blue Ridge (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	2	2	3	2	3	2	1	1	2	2	3	2
1503010702	3	2	4	3	3	2	1	2	3	3	3	3

Table C-274 Total Nitrogen Annual Maximum in Lake Blue Ridge (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.30	0.16	0.21	0.19	0.18	0.19	0.17	0.10	0.24	0.32	0.28	0.17
1503010702	0.38	0.18	0.31	0.23	0.30	0.17	0.16	0.14	0.26	0.27	0.50	0.34

Table C-275 Total Nitrogen Growing Season Average in Lake Blue Ridge (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.08	0.06	0.10	0.08	0.09	0.07	0.06	0.07	0.08	0.08	0.10	0.07
1503010702	0.12	0.09	0.15	0.11	0.13	0.10	0.07	0.09	0.12	0.10	0.12	0.12

Table C-276 Total Phosphorus Growing Season Average in Lake Blue Ridge (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1503010701	0.006	0.005	0.008	0.006	0.007	0.005	0.004	0.005	0.007	0.006	0.009	0.006
1503010702	0.009	0.007	0.011	0.009	0.010	0.008	0.005	0.007	0.010	0.007	0.010	0.009

C.2.12 Lake Oconee

Table C-277 Lake Oconee Stations

Station	Station Description	Latitude	Longitude
301100602	Lake Oconee 300 Meters Upstream Wallace Dam (Dam Forebay)	33.351667	-83.160833
301110502	Lake Oconee - Richland Creek Arm	33.394700	-83.176700
301100102	Lake Oconee At Highway 44, Oconee River Arm	33.431394	-83.265734
301100402	Lake Oconee - Confluence of Little Sugar and Sugar Creeks	33.478610	-83.316010
301100403	Lake Oconee - Sugar Creek Arm	33.468530	-83.295650
OC-1	Lower pool (Forebay) of reservoir next to Wallace Dam	33.3518	-83.1612
OC-2	Richland Creek embayment	33.4313	-83.1887
OC-4	Lick Creek embayment	33.4045	-83.3717
OC-7	Apalachee River embayment in upstream end of reservoir	33.5526	-83.2953
OC-8	Oconee River embayment in upstream end of reservoir	33.5686	-83.2787
OC-9	Sugar Creek embayment	33.4722	-83.3077

Table C-278 Chlorophyll a Growing Season Average in Lake Oconee (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	10	7	19	12	17	10	8	9	10	8	10	6
301110502	8	6	13	11	12	8	7	7	15	9	9	8
301100102	15	17	28	21	26	19	17	20	20	15	20	19
301100402	14	11	20	16	18	10	10	12	20	14	11	8
301100403	10	8	15	13	14	8	8	10	18	11	9	6
OC-1	10	7	19	12	17	10	8	9	10	8	10	6
OC-2	8	5	13	8	9	6	5	6	13	6	7	7
OC-4	13	8	18	14	14	3	5	6	12	11	7	7
OC-7	24	19	24	26	21	13	10	16	17	21	13	16
OC-8	20	30	34	39	30	34	40	36	28	38	25	23
OC-9	14	11	20	16	18	10	10	12	20	14	11	8

Table C-279 Total Nitrogen Annual Maximum in Lake Oconee (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.61	0.54	0.72	0.62	0.77	0.58	0.54	0.49	0.81	0.71	0.72	0.37
301110502	0.58	0.40	0.65	0.62	0.66	0.57	0.52	0.44	0.68	0.69	0.63	0.34
301100102	0.84	0.75	1.02	1.03	1.30	0.84	0.81	0.68	1.05	0.86	0.96	0.53
301100402	0.70	0.48	0.76	0.79	0.71	0.44	0.52	0.57	0.82	0.79	0.61	0.39
301100403	0.61	0.38	0.68	0.69	0.63	0.39	0.43	0.48	0.79	0.77	0.52	0.30
OC-1	0.61	0.54	0.72	0.62	0.77	0.58	0.54	0.49	0.81	0.71	0.72	0.37
OC-2	0.61	0.36	0.68	0.56	0.66	0.57	0.52	0.47	0.65	0.70	0.64	0.31
OC-4	0.69	0.50	0.61	0.86	0.71	0.21	0.58	0.26	0.73	0.61	0.42	0.27
OC-7	0.87	0.98	1.37	1.25	1.58	0.88	0.79	0.62	1.10	0.84	0.98	0.68
OC-8	0.83	0.83	1.05	1.18	1.30	0.92	1.18	1.01	1.14	0.94	0.97	0.79
OC-9	0.70	0.48	0.76	0.79	0.71	0.44	0.52	0.57	0.82	0.79	0.61	0.39

Table C-280 Total Nitrogen Growing Season Average in Lake Oconee (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.43	0.31	0.59	0.41	0.57	0.36	0.33	0.35	0.49	0.44	0.40	0.24
301110502	0.40	0.27	0.50	0.34	0.47	0.32	0.29	0.30	0.42	0.39	0.37	0.23
301100102	0.47	0.44	0.68	0.54	0.63	0.46	0.44	0.48	0.59	0.58	0.44	0.32
301100402	0.38	0.25	0.52	0.36	0.50	0.27	0.27	0.33	0.54	0.50	0.33	0.21
301100403	0.34	0.22	0.46	0.32	0.44	0.26	0.25	0.30	0.49	0.44	0.30	0.19
OC-1	0.43	0.31	0.59	0.41	0.57	0.36	0.33	0.35	0.49	0.44	0.40	0.24
OC-2	0.37	0.22	0.44	0.29	0.37	0.25	0.22	0.24	0.37	0.29	0.31	0.19
OC-4	0.36	0.24	0.44	0.35	0.38	0.10	0.21	0.17	0.33	0.34	0.22	0.19
OC-7	0.55	0.50	0.70	0.57	0.63	0.43	0.35	0.34	0.57	0.57	0.45	0.38
OC-8	0.50	0.58	0.72	0.62	0.66	0.58	0.69	0.64	0.67	0.74	0.50	0.39
OC-9	0.38	0.25	0.52	0.36	0.50	0.27	0.27	0.33	0.54	0.50	0.33	0.21

Table C-281 Total Phosphorus Growing Season Average in Lake Oconee (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.044	0.051	0.074	0.059	0.071	0.058	0.057	0.057	0.068	0.059	0.060	0.028
301110502	0.034	0.036	0.049	0.039	0.046	0.042	0.042	0.042	0.046	0.041	0.043	0.021
301100102	0.039	0.067	0.071	0.067	0.067	0.066	0.071	0.067	0.073	0.066	0.060	0.029
301100402	0.038	0.031	0.052	0.036	0.048	0.029	0.030	0.034	0.050	0.050	0.032	0.020
301100403	0.031	0.028	0.045	0.032	0.041	0.028	0.029	0.032	0.046	0.043	0.030	0.017
OC-1	0.044	0.051	0.074	0.059	0.071	0.058	0.057	0.057	0.068	0.059	0.060	0.028
OC-2	0.029	0.020	0.039	0.027	0.032	0.025	0.024	0.027	0.031	0.025	0.028	0.015
OC-4	0.030	0.018	0.039	0.026	0.033	0.006	0.012	0.013	0.028	0.027	0.015	0.014
OC-7	0.048	0.039	0.057	0.044	0.049	0.027	0.022	0.033	0.044	0.044	0.030	0.024
OC-8	0.043	0.107	0.091	0.101	0.085	0.110	0.129	0.098	0.101	0.092	0.089	0.040
OC-9	0.038	0.031	0.052	0.036	0.048	0.029	0.030	0.034	0.050	0.050	0.032	0.020

Table C-282 Chlorophyll a Growing Season Average in Lake Oconee (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	11	7	16	9	14	7	5	6	8	6	9	8
301110502	9	6	12	8	10	6	5	5	12	7	7	10
301100102	18	14	23	17	20	13	11	13	16	12	18	24
301100402	10	6	16	12	14	6	6	9	18	12	9	6
301100403	8	5	12	10	11	5	5	7	15	10	7	6
OC-1	11	7	16	9	14	7	5	6	8	6	9	8
OC-2	8	5	12	7	8	4	3	4	12	6	6	7
OC-4	16	15	19	18	16	11	13	13	16	14	13	13
OC-7	25	22	25	30	24	19	17	17	21	25	21	27
OC-8	26	26	24	33	21	22	24	21	21	25	26	37
OC-9	10	6	16	12	14	6	6	9	18	12	9	6

Table C-283 Total Nitrogen Annual Maximum in Lake Oconee (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	1.13	1.47	1.04	1.26	1.04	1.13	1.17	1.10	1.09	1.12	1.14	1.23
301110502	1.00	1.07	0.92	1.06	0.99	1.00	0.98	1.01	1.12	1.01	1.13	1.14
301100102	1.67	1.90	1.50	1.72	1.42	1.57	1.59	1.39	1.51	1.50	1.73	2.02
301100402	0.77	0.87	0.79	0.92	0.77	0.84	1.02	1.01	0.87	0.83	0.85	0.90
301100403	0.86	0.95	0.74	0.85	0.70	0.88	1.07	1.06	0.83	0.79	0.96	0.98
OC-1	1.13	1.47	1.04	1.26	1.04	1.13	1.17	1.10	1.09	1.12	1.14	1.23
OC-2	0.94	0.96	0.97	0.96	1.10	0.98	0.94	0.92	0.82	0.87	1.02	0.89
OC-4	1.30	1.31	0.83	0.93	0.97	1.63	1.93	1.88	1.40	0.82	1.44	1.36
OC-7	1.14	1.10	1.42	1.28	1.65	1.04	1.14	1.02	1.16	1.07	1.07	1.20
OC-8	2.81	2.60	1.95	2.35	2.06	2.28	2.48	1.83	2.02	2.20	3.22	3.14
OC-9	0.77	0.87	0.79	0.92	0.77	0.84	1.02	1.01	0.87	0.83	0.85	0.90

Table C-284 Total Nitrogen Growing Season Average in Lake Oconee (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.80	0.92	0.80	0.96	0.83	0.83	0.89	0.83	0.80	0.80	0.83	1.01
301110502	0.70	0.80	0.67	0.84	0.70	0.75	0.81	0.75	0.67	0.69	0.74	0.93
301100102	0.98	1.10	0.99	1.17	0.95	1.00	1.11	0.99	0.98	1.00	1.10	1.24
301100402	0.55	0.71	0.59	0.68	0.60	0.65	0.72	0.63	0.66	0.64	0.61	0.73
301100403	0.52	0.71	0.53	0.68	0.56	0.65	0.72	0.63	0.62	0.58	0.59	0.74
OC-1	0.80	0.92	0.80	0.96	0.83	0.83	0.89	0.83	0.80	0.80	0.83	1.01
OC-2	0.50	0.56	0.50	0.62	0.49	0.50	0.55	0.54	0.47	0.42	0.51	0.63
OC-4	0.55	0.81	0.50	0.72	0.55	1.42	0.94	1.10	0.59	0.60	0.81	1.02
OC-7	0.86	0.90	0.88	0.93	0.83	0.80	0.86	0.75	0.85	0.86	0.92	0.95
OC-8	1.31	1.49	1.19	1.51	1.11	1.32	1.57	1.26	1.23	1.34	1.53	1.66
OC-9	0.55	0.71	0.59	0.68	0.60	0.65	0.72	0.63	0.66	0.64	0.61	0.73

Table C-285 Total Phosphorus Growing Season Average in Lake Oconee (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.051	0.039	0.063	0.043	0.059	0.038	0.033	0.035	0.051	0.044	0.045	0.036
301110502	0.038	0.028	0.043	0.029	0.039	0.028	0.025	0.026	0.036	0.032	0.033	0.026
301100102	0.047	0.041	0.056	0.045	0.052	0.036	0.033	0.036	0.050	0.048	0.042	0.038
301100402	0.028	0.018	0.042	0.026	0.037	0.019	0.017	0.025	0.045	0.043	0.027	0.017
301100403	0.025	0.017	0.036	0.023	0.032	0.018	0.016	0.022	0.040	0.037	0.024	0.016
OC-1	0.051	0.039	0.063	0.043	0.059	0.038	0.033	0.035	0.051	0.044	0.045	0.036
OC-2	0.030	0.019	0.037	0.022	0.029	0.019	0.017	0.020	0.028	0.022	0.024	0.017
OC-4	0.035	0.028	0.041	0.033	0.037	0.023	0.025	0.026	0.035	0.033	0.026	0.025
OC-7	0.052	0.045	0.060	0.050	0.054	0.038	0.035	0.036	0.052	0.052	0.045	0.040
OC-8	0.057	0.053	0.060	0.056	0.056	0.045	0.046	0.044	0.056	0.055	0.054	0.052
OC-9	0.028	0.018	0.042	0.026	0.037	0.019	0.017	0.025	0.045	0.043	0.027	0.017

Table C-286 Chlorophyll a Growing Season Average in Lake Oconee (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	8	4	14	6	12	5	3	4	6	4	7	4
301110502	7	4	10	5	9	4	3	3	10	5	6	6
301100102	12	8	18	10	15	8	5	7	11	8	11	13
301100402	8	4	14	10	12	4	4	7	17	11	7	5
301100403	7	4	11	8	9	4	3	5	14	9	6	4
OC-1	8	4	14	6	12	5	3	4	6	4	7	4
OC-2	8	3	12	5	7	3	2	3	11	5	5	5
OC-4	13	8	18	14	14	2	5	5	12	11	7	7
OC-7	17	13	20	19	18	11	8	9	14	18	12	13
OC-8	13	11	15	16	13	10	9	9	11	13	11	16
OC-9	8	4	14	10	12	4	4	7	17	11	7	5

Table C-287 Total Nitrogen Annual Maximum in Lake Oconee (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.59	0.46	0.66	0.58	0.69	0.51	0.44	0.36	0.76	0.66	0.65	0.36
301110502	0.57	0.38	0.60	0.59	0.62	0.50	0.42	0.34	0.63	0.64	0.56	0.34
301100102	0.82	0.72	0.97	1.00	1.24	0.78	0.76	0.49	1.01	0.79	0.90	0.51
301100402	0.65	0.43	0.71	0.73	0.63	0.40	0.48	0.53	0.81	0.77	0.60	0.40
301100403	0.57	0.34	0.64	0.64	0.56	0.37	0.40	0.45	0.77	0.75	0.51	0.32
OC-1	0.59	0.46	0.66	0.58	0.69	0.51	0.44	0.36	0.76	0.66	0.65	0.36
OC-2	0.60	0.35	0.63	0.45	0.63	0.51	0.43	0.37	0.61	0.66	0.55	0.32
OC-4	0.69	0.50	0.61	0.86	0.71	0.21	0.59	0.27	0.73	0.61	0.42	0.27
OC-7	0.85	0.95	1.35	1.24	1.53	0.83	0.75	0.55	1.07	0.82	0.97	0.61
OC-8	0.82	0.82	0.99	1.13	1.24	0.84	0.81	0.61	1.10	0.82	0.90	0.78
OC-9	0.65	0.43	0.71	0.73	0.63	0.40	0.48	0.53	0.81	0.77	0.60	0.40

Table C-288 Total Nitrogen Growing Season Average in Lake Oconee (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.41	0.28	0.52	0.34	0.51	0.30	0.26	0.25	0.41	0.37	0.36	0.25
301110502	0.39	0.25	0.47	0.30	0.44	0.29	0.25	0.24	0.37	0.35	0.34	0.24
301100102	0.43	0.33	0.57	0.42	0.53	0.31	0.25	0.28	0.47	0.44	0.36	0.30
301100402	0.35	0.22	0.46	0.35	0.44	0.26	0.26	0.32	0.52	0.49	0.33	0.24
301100403	0.32	0.21	0.42	0.31	0.40	0.25	0.24	0.28	0.48	0.43	0.30	0.22
OC-1	0.41	0.28	0.52	0.34	0.51	0.30	0.26	0.25	0.41	0.37	0.36	0.25
OC-2	0.37	0.22	0.43	0.27	0.36	0.25	0.22	0.22	0.35	0.29	0.30	0.20
OC-4	0.36	0.24	0.44	0.35	0.38	0.13	0.22	0.18	0.33	0.34	0.22	0.20
OC-7	0.47	0.38	0.62	0.45	0.54	0.31	0.25	0.27	0.48	0.51	0.37	0.29
OC-8	0.45	0.38	0.55	0.46	0.51	0.31	0.27	0.31	0.48	0.47	0.38	0.38
OC-9	0.35	0.22	0.46	0.35	0.44	0.26	0.26	0.32	0.52	0.49	0.33	0.24

Table C-289 Total Phosphorus Growing Season Average in Lake Oconee (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.038	0.025	0.053	0.028	0.048	0.026	0.022	0.023	0.040	0.032	0.034	0.020
301110502	0.030	0.018	0.038	0.019	0.033	0.019	0.015	0.017	0.029	0.024	0.025	0.015
301100102	0.032	0.024	0.045	0.029	0.040	0.021	0.016	0.020	0.037	0.033	0.026	0.020
301100402	0.024	0.013	0.039	0.022	0.034	0.014	0.012	0.021	0.042	0.042	0.023	0.013
301100403	0.021	0.012	0.034	0.019	0.029	0.013	0.011	0.018	0.038	0.036	0.020	0.011
OC-1	0.038	0.025	0.053	0.028	0.048	0.026	0.022	0.023	0.040	0.032	0.034	0.020
OC-2	0.028	0.014	0.036	0.017	0.026	0.015	0.012	0.014	0.026	0.019	0.021	0.012
OC-4	0.030	0.018	0.039	0.026	0.033	0.006	0.012	0.012	0.028	0.027	0.015	0.014
OC-7	0.038	0.029	0.052	0.035	0.044	0.023	0.018	0.021	0.040	0.040	0.028	0.021
OC-8	0.034	0.028	0.043	0.033	0.040	0.023	0.020	0.022	0.037	0.034	0.028	0.026
OC-9	0.024	0.013	0.039	0.022	0.034	0.014	0.012	0.021	0.042	0.042	0.023	0.013

Table C-290 Chlorophyll a Growing Season Average in Lake Oconee (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	5	2	8	2	7	2	2	2	3	2	4	1
301110502	4	1	7	2	5	2	1	1	6	3	3	2
301100102	5	2	9	3	7	2	1	2	5	3	4	3
301100402	4	1	7	5	6	1	1	3	9	5	4	1
301100403	3	1	6	4	5	1	1	2	8	5	3	1
OC-1	5	2	8	2	7	2	2	2	3	2	4	1
OC-2	5	2	8	2	4	2	1	2	7	3	3	2
OC-4	7	4	11	7	8	0	2	2	6	5	2	2
OC-7	6	3	9	5	7	2	1	2	5	7	3	2
OC-8	5	2	6	3	5	1	1	2	3	4	2	2
OC-9	4	1	7	5	6	1	1	3	9	5	4	1

Table C-291 Total Nitrogen Annual Maximum in Lake Oconee (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.57	0.23	0.38	0.38	0.42	0.26	0.24	0.21	0.48	0.38	0.33	0.20
301110502	0.57	0.17	0.34	0.35	0.34	0.26	0.21	0.17	0.41	0.38	0.29	0.16
301100102	0.48	0.40	0.62	0.68	0.94	0.35	0.42	0.24	0.70	0.47	0.48	0.23
301100402	0.55	0.23	0.42	0.45	0.37	0.22	0.26	0.29	0.53	0.49	0.37	0.21
301100403	0.55	0.17	0.38	0.39	0.33	0.19	0.22	0.25	0.51	0.48	0.31	0.16
OC-1	0.57	0.23	0.38	0.38	0.42	0.26	0.24	0.21	0.48	0.38	0.33	0.20
OC-2	0.56	0.17	0.44	0.26	0.35	0.27	0.22	0.20	0.40	0.39	0.29	0.16
OC-4	0.50	0.34	0.43	0.59	0.51	0.06	0.42	0.15	0.53	0.44	0.28	0.13
OC-7	0.52	0.52	0.89	0.88	1.13	0.46	0.42	0.27	0.74	0.53	0.54	0.28
OC-8	0.44	0.44	0.65	0.70	0.96	0.39	0.47	0.29	0.79	0.50	0.47	0.38
OC-9	0.55	0.23	0.42	0.45	0.37	0.22	0.26	0.29	0.53	0.49	0.37	0.21

Table C-292 Total Nitrogen Growing Season Average in Lake Oconee (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.20	0.13	0.28	0.15	0.26	0.15	0.15	0.13	0.21	0.16	0.18	0.13
301110502	0.20	0.10	0.26	0.13	0.23	0.12	0.11	0.11	0.19	0.16	0.16	0.10
301100102	0.18	0.10	0.27	0.15	0.24	0.08	0.07	0.09	0.20	0.15	0.12	0.08
301100402	0.18	0.10	0.26	0.18	0.25	0.13	0.12	0.15	0.30	0.27	0.17	0.11
301100403	0.17	0.09	0.24	0.16	0.22	0.11	0.11	0.13	0.28	0.24	0.15	0.10
OC-1	0.20	0.13	0.28	0.15	0.26	0.15	0.15	0.13	0.21	0.16	0.18	0.13
OC-2	0.23	0.10	0.28	0.14	0.20	0.12	0.11	0.11	0.20	0.15	0.16	0.09
OC-4	0.19	0.11	0.27	0.18	0.21	0.04	0.11	0.07	0.18	0.16	0.10	0.07
OC-7	0.18	0.10	0.30	0.15	0.24	0.07	0.05	0.07	0.20	0.19	0.11	0.05
OC-8	0.15	0.08	0.22	0.12	0.21	0.05	0.03	0.07	0.17	0.13	0.08	0.07
OC-9	0.18	0.10	0.26	0.18	0.25	0.13	0.12	0.15	0.30	0.27	0.17	0.11

Table C-293 Total Phosphorus Growing Season Average in Lake Oconee (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.021	0.011	0.032	0.012	0.027	0.012	0.011	0.011	0.022	0.015	0.018	0.008
301110502	0.018	0.007	0.024	0.008	0.019	0.008	0.007	0.008	0.017	0.012	0.013	0.006
301100102	0.016	0.008	0.024	0.012	0.021	0.006	0.005	0.007	0.019	0.013	0.009	0.005
301100402	0.012	0.005	0.021	0.011	0.018	0.005	0.005	0.010	0.025	0.022	0.013	0.005
301100403	0.011	0.005	0.020	0.009	0.016	0.005	0.005	0.008	0.023	0.019	0.011	0.004
OC-1	0.021	0.011	0.032	0.012	0.027	0.012	0.011	0.011	0.022	0.015	0.018	0.008
OC-2	0.019	0.007	0.025	0.008	0.016	0.007	0.006	0.007	0.016	0.010	0.013	0.005
OC-4	0.017	0.008	0.025	0.015	0.019	0.001	0.005	0.005	0.016	0.014	0.006	0.004
OC-7	0.016	0.008	0.027	0.012	0.021	0.005	0.003	0.006	0.018	0.017	0.008	0.004
OC-8	0.014	0.007	0.021	0.010	0.019	0.004	0.003	0.006	0.016	0.011	0.007	0.006
OC-9	0.012	0.005	0.021	0.011	0.018	0.005	0.005	0.010	0.025	0.022	0.013	0.005

Table C-294 Chlorophyll a Growing Season Average in Lake Oconee (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	12	8	17	10	15	8	6	7	8	7	10	9
301110502	10	6	12	9	10	6	5	6	13	7	8	11
301100102	20	16	23	19	21	16	13	15	18	13	20	29
301100402	11	7	16	13	14	7	7	10	19	13	10	8
301100403	9	6	13	11	11	6	5	8	17	10	8	7
OC-1	12	8	17	10	15	8	6	7	8	7	10	9
OC-2	9	5	13	7	9	5	4	5	12	6	7	8
OC-4	17	16	19	19	17	12	13	14	17	15	14	15
OC-7	30	29	27	38	27	27	26	24	26	30	28	39
OC-8	26	28	22	35	20	25	29	23	22	25	29	40
OC-9	11	7	16	13	14	7	7	10	19	13	10	8

Table C-295 Total Nitrogen Annual Maximum in Lake Oconee (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	1.35	1.62	1.36	1.56	1.44	1.42	1.54	1.41	1.44	1.36	1.53	1.60
301110502	1.22	1.32	1.18	1.30	1.12	1.20	1.30	1.17	1.24	1.36	1.39	1.52
301100102	2.04	2.13	1.86	1.91	1.73	2.19	2.39	1.84	1.94	1.91	2.43	2.22
301100402	1.05	1.13	0.98	1.06	0.91	1.16	1.34	1.28	1.01	0.95	1.17	1.22
301100403	1.17	1.21	0.95	1.00	0.85	1.21	1.35	1.26	0.95	0.89	1.24	1.32
OC-1	1.35	1.62	1.36	1.56	1.44	1.42	1.54	1.41	1.44	1.36	1.53	1.60
OC-2	1.09	1.14	1.12	1.11	1.22	1.20	1.11	1.05	0.99	0.99	1.16	1.04
OC-4	1.42	1.41	0.90	0.98	1.05	1.78	2.08	2.03	1.49	0.87	1.55	1.41
OC-7	2.20	2.54	1.82	2.36	1.95	2.53	2.99	2.27	2.36	1.94	2.70	2.77
OC-8	2.64	2.97	2.11	2.58	2.05	2.95	3.16	2.42	2.57	2.39	2.97	2.97
OC-9	1.05	1.13	0.98	1.06	0.91	1.16	1.34	1.28	1.01	0.95	1.17	1.22

Table C-296 Total Nitrogen Growing Season Average in Lake Oconee (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	1.05	1.22	1.02	1.21	1.05	1.09	1.15	1.09	1.07	1.10	1.11	1.32
301110502	0.91	1.05	0.84	1.04	0.88	0.96	1.04	0.97	0.88	0.92	1.00	1.19
301100102	1.34	1.53	1.29	1.50	1.24	1.42	1.56	1.40	1.33	1.37	1.60	1.67
301100402	0.70	0.93	0.72	0.86	0.74	0.86	0.93	0.82	0.80	0.80	0.79	0.95
301100403	0.67	0.94	0.66	0.85	0.69	0.87	0.94	0.83	0.76	0.74	0.79	0.96
OC-1	1.05	1.22	1.02	1.21	1.05	1.09	1.15	1.09	1.07	1.10	1.11	1.32
OC-2	0.62	0.70	0.60	0.74	0.59	0.62	0.66	0.67	0.58	0.54	0.64	0.77
OC-4	0.60	0.85	0.55	0.76	0.60	1.51	1.00	1.13	0.64	0.64	0.86	1.04
OC-7	1.57	1.84	1.37	1.78	1.36	1.68	1.99	1.64	1.55	1.53	1.94	2.17
OC-8	1.65	1.91	1.48	1.83	1.38	1.70	2.05	1.61	1.57	1.67	2.01	2.05
OC-9	0.70	0.93	0.72	0.86	0.74	0.86	0.93	0.82	0.80	0.80	0.79	0.95

Table C-297 Total Phosphorus Growing Season Average in Lake Oconee (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.054	0.044	0.065	0.046	0.061	0.042	0.037	0.039	0.054	0.048	0.049	0.041
301110502	0.040	0.031	0.044	0.031	0.040	0.030	0.027	0.028	0.038	0.034	0.035	0.029
301100102	0.051	0.047	0.058	0.049	0.054	0.042	0.039	0.041	0.054	0.051	0.048	0.043
301100402	0.031	0.020	0.045	0.029	0.041	0.022	0.020	0.029	0.048	0.048	0.030	0.021
301100403	0.027	0.019	0.039	0.025	0.035	0.021	0.018	0.025	0.043	0.041	0.027	0.019
OC-1	0.054	0.044	0.065	0.046	0.061	0.042	0.037	0.039	0.054	0.048	0.049	0.041
OC-2	0.032	0.022	0.039	0.023	0.030	0.020	0.018	0.021	0.030	0.023	0.025	0.019
OC-4	0.036	0.030	0.042	0.035	0.038	0.026	0.027	0.028	0.036	0.035	0.028	0.027
OC-7	0.061	0.058	0.066	0.061	0.060	0.052	0.050	0.048	0.062	0.060	0.058	0.057
OC-8	0.059	0.058	0.060	0.060	0.056	0.050	0.053	0.047	0.059	0.055	0.059	0.057
OC-9	0.031	0.020	0.045	0.029	0.041	0.022	0.020	0.029	0.048	0.048	0.030	0.021

Table C-298 Chlorophyll a Growing Season Average in Lake Oconee (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	9	5	14	6	12	5	3	4	6	4	7	5
301110502	8	4	11	6	9	4	3	4	11	5	6	7
301100102	13	10	18	12	15	9	7	8	12	8	12	17
301100402	9	5	14	11	12	5	4	8	17	11	8	5
301100403	7	4	11	9	9	4	3	6	15	9	6	5
OC-1	9	5	14	6	12	5	3	4	6	4	7	5
OC-2	8	4	12	6	8	4	3	4	11	5	6	6
OC-4	14	10	18	15	15	4	6	7	13	12	8	9
OC-7	18	15	20	21	18	13	10	11	16	19	14	18
OC-8	14	14	14	19	12	12	12	10	12	13	14	20
OC-9	9	5	14	11	12	5	4	8	17	11	8	5

Table C-299 Total Nitrogen Annual Maximum in Lake Oconee (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.69	0.54	0.76	0.64	0.78	0.61	0.51	0.43	0.81	0.75	0.76	0.45
301110502	0.67	0.48	0.69	0.63	0.71	0.60	0.49	0.41	0.72	0.73	0.67	0.42
301100102	0.92	0.82	1.10	1.06	1.27	0.89	0.79	0.57	1.07	0.91	1.02	0.63
301100402	0.74	0.52	0.80	0.82	0.72	0.49	0.58	0.61	0.90	0.85	0.68	0.49
301100403	0.66	0.42	0.72	0.73	0.64	0.45	0.49	0.53	0.86	0.83	0.60	0.40
OC-1	0.69	0.54	0.76	0.64	0.78	0.61	0.51	0.43	0.81	0.75	0.76	0.45
OC-2	0.71	0.46	0.72	0.55	0.73	0.60	0.51	0.44	0.72	0.76	0.65	0.41
OC-4	0.72	0.54	0.65	0.92	0.75	0.27	0.63	0.30	0.77	0.65	0.47	0.33
OC-7	0.94	1.00	1.42	1.19	1.53	0.92	0.81	0.62	1.11	0.92	1.03	0.68
OC-8	0.97	0.96	1.08	1.15	1.28	0.98	0.85	0.72	1.14	0.92	1.02	0.88
OC-9	0.74	0.52	0.80	0.82	0.72	0.49	0.58	0.61	0.90	0.85	0.68	0.49

Table C-300 Total Nitrogen Growing Season Average in Lake Oconee (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.50	0.36	0.62	0.43	0.60	0.38	0.33	0.33	0.51	0.46	0.45	0.34
301110502	0.48	0.33	0.56	0.39	0.53	0.37	0.32	0.31	0.46	0.43	0.43	0.32
301100102	0.53	0.43	0.68	0.53	0.62	0.41	0.34	0.37	0.57	0.55	0.47	0.42
301100402	0.43	0.29	0.54	0.43	0.52	0.35	0.35	0.40	0.61	0.57	0.42	0.33
301100403	0.40	0.28	0.49	0.40	0.48	0.33	0.32	0.36	0.56	0.52	0.38	0.30
OC-1	0.50	0.36	0.62	0.43	0.60	0.38	0.33	0.33	0.51	0.46	0.45	0.34
OC-2	0.44	0.30	0.52	0.35	0.43	0.32	0.29	0.29	0.43	0.35	0.38	0.27
OC-4	0.41	0.30	0.48	0.41	0.43	0.19	0.29	0.23	0.38	0.39	0.28	0.25
OC-7	0.56	0.47	0.71	0.55	0.62	0.41	0.34	0.35	0.58	0.60	0.47	0.40
OC-8	0.57	0.52	0.67	0.59	0.62	0.44	0.40	0.40	0.61	0.59	0.52	0.52
OC-9	0.43	0.29	0.54	0.43	0.52	0.35	0.35	0.40	0.61	0.57	0.42	0.33

Table C-301 Total Phosphorus Growing Season Average in Lake Oconee (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301100602	0.040	0.027	0.055	0.030	0.049	0.027	0.021	0.023	0.041	0.033	0.035	0.024
301110502	0.031	0.020	0.039	0.021	0.034	0.021	0.016	0.018	0.030	0.025	0.026	0.018
301100102	0.034	0.028	0.046	0.033	0.041	0.026	0.020	0.023	0.039	0.035	0.029	0.025
301100402	0.026	0.014	0.040	0.023	0.035	0.016	0.013	0.023	0.043	0.042	0.024	0.015
301100403	0.023	0.013	0.035	0.020	0.030	0.015	0.012	0.019	0.039	0.036	0.021	0.013
OC-1	0.040	0.027	0.055	0.030	0.049	0.027	0.021	0.023	0.041	0.033	0.035	0.024
OC-2	0.029	0.016	0.038	0.018	0.027	0.016	0.013	0.016	0.027	0.020	0.022	0.013
OC-4	0.031	0.020	0.040	0.028	0.034	0.009	0.014	0.015	0.030	0.029	0.018	0.016
OC-7	0.040	0.034	0.052	0.039	0.045	0.029	0.022	0.025	0.043	0.042	0.033	0.027
OC-8	0.036	0.035	0.044	0.037	0.040	0.029	0.026	0.026	0.041	0.035	0.033	0.033
OC-9	0.026	0.014	0.040	0.023	0.035	0.016	0.013	0.023	0.043	0.042	0.024	0.015

C.2.13 Lake Sinclair

Table C-302 Lake Sinclair Stations

Station	Station Description	Latitude	Longitude
301170702	Lake Sinclair – 300 Meters Upstream Dam (Dam Forebay)	33.142817	-83.202617
301170701	Lake Sinclair – Little River and Murder Creek Arm, U/S U.S. Hwy 441	33.189000	-83.295300
301180104	Lake Sinclair – Mid-lake, Oconee River Arm	33.196800	-83.274200
301100603	Oconee River – Georgia Highway 16	33.334722	-83.143889
SI-1	Dam Pool	33.1426	-83.203
SI-2	Oconee River at Little River	33.18703	-83.27484
SI-3	Oconee River at Crooked Creek	33.2614	-83.2459
SI-6	Little River at Central Georgia Railroad	33.16778	-83.32923
SI-7	Little River at Twin Bridges Road	33.2028	-83.3804
SI-66	Rooty Creek, at western side of confluence with Cold Branch	33.2241	-83.2872

Table C-303 Chlorophyll a Growing Season Average in Lake Sinclair (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	4	1	8	4	7	2	2	2	7	5	6	4
301170701	7	3	11	6	10	2	2	4	7	6	9	5
301180104	6	3	12	8	10	2	2	4	7	5	8	5
301100603	9	8	18	14	16	10	9	9	9	8	16	9
SI-1	4	1	8	4	7	2	2	2	7	5	6	4
SI-2	6	2	11	8	10	2	2	4	7	6	8	5
SI-3	8	5	16	11	15	6	5	7	9	8	13	7
SI-6	11	5	15	11	15	4	3	7	8	8	15	9
SI-7	22	14	22	24	21	14	13	18	10	12	29	23
SI-66	5	2	8	10	6	2	2	3	6	4	5	5

Table C-304 Total Nitrogen Annual Maximum in Lake Sinclair (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.52	0.42	0.58	0.68	0.60	0.41	0.35	0.34	0.63	0.62	0.57	0.26
301170701	0.75	0.58	0.85	0.96	0.81	0.59	0.65	0.63	0.88	0.78	0.64	0.68
301180104	0.59	0.52	0.68	0.61	0.68	0.55	0.50	0.51	0.66	0.66	0.64	0.40
301100603	0.61	0.53	0.71	0.60	0.73	0.58	0.52	0.49	0.73	0.72	0.72	0.36
SI-1	0.52	0.42	0.58	0.68	0.60	0.41	0.35	0.34	0.63	0.62	0.57	0.26
SI-2	0.61	0.52	0.78	0.67	0.64	0.53	0.52	0.57	0.67	0.67	0.64	0.59
SI-3	0.70	0.53	0.73	0.59	0.70	0.57	0.50	0.49	0.74	0.71	0.70	0.32
SI-6	0.83	0.74	0.93	1.21	1.03	0.76	0.75	0.72	1.22	0.98	0.81	0.74
SI-7	1.07	0.89	1.01	1.32	1.10	0.91	0.89	0.84	1.52	1.56	1.01	0.84
SI-66	0.81	0.57	0.75	0.95	0.74	0.33	0.58	0.28	0.86	0.79	0.52	0.21

Table C-305 Total Nitrogen Growing Season Average in Lake Sinclair (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.32	0.16	0.45	0.26	0.43	0.16	0.17	0.19	0.39	0.32	0.30	0.14
301170701	0.40	0.21	0.53	0.32	0.51	0.19	0.19	0.25	0.45	0.42	0.30	0.19
301180104	0.37	0.20	0.50	0.28	0.48	0.18	0.18	0.22	0.40	0.34	0.30	0.16
301100603	0.42	0.30	0.59	0.39	0.56	0.34	0.31	0.33	0.48	0.43	0.40	0.24
SI-1	0.32	0.16	0.45	0.26	0.43	0.16	0.17	0.19	0.39	0.32	0.30	0.14
SI-2	0.38	0.19	0.51	0.28	0.48	0.17	0.18	0.22	0.41	0.37	0.29	0.16
SI-3	0.41	0.26	0.56	0.35	0.54	0.28	0.25	0.28	0.45	0.41	0.36	0.21
SI-6	0.56	0.32	0.63	0.52	0.63	0.31	0.31	0.42	0.60	0.61	0.42	0.31
SI-7	0.72	0.65	0.73	0.77	0.73	0.71	0.73	0.75	0.73	0.77	0.69	0.71
SI-66	0.29	0.16	0.38	0.26	0.33	0.12	0.14	0.16	0.34	0.24	0.21	0.12

Table C-306 Total Phosphorus Growing Season Average in Lake Sinclair (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.032	0.013	0.053	0.026	0.051	0.016	0.015	0.020	0.044	0.036	0.030	0.024
301170701	0.035	0.016	0.051	0.028	0.049	0.016	0.015	0.023	0.043	0.039	0.027	0.023
301180104	0.032	0.016	0.050	0.027	0.048	0.017	0.016	0.023	0.041	0.035	0.027	0.021
301100603	0.038	0.043	0.063	0.049	0.060	0.049	0.048	0.048	0.059	0.053	0.050	0.025
SI-1	0.032	0.013	0.053	0.026	0.051	0.016	0.015	0.020	0.044	0.036	0.030	0.024
SI-2	0.032	0.015	0.050	0.026	0.047	0.016	0.015	0.022	0.041	0.036	0.026	0.021
SI-3	0.034	0.030	0.057	0.040	0.055	0.034	0.030	0.035	0.050	0.046	0.039	0.025
SI-6	0.048	0.024	0.056	0.039	0.054	0.022	0.022	0.035	0.053	0.050	0.034	0.033
SI-7	0.066	0.058	0.066	0.065	0.064	0.062	0.061	0.068	0.070	0.065	0.062	0.057
SI-66	0.025	0.013	0.037	0.024	0.031	0.011	0.012	0.016	0.032	0.023	0.019	0.019

Table C-307 Chlorophyll a Growing Season Average in Lake Sinclair (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	5	2	8	4	7	1	1	2	6	4	6	6
301170701	7	3	11	6	10	2	2	3	6	6	9	6
301180104	7	3	11	7	10	2	2	3	6	5	8	7
301100603	12	8	16	12	14	8	7	7	8	7	15	13
SI-1	5	2	8	4	7	1	1	2	6	4	6	6
SI-2	7	3	11	7	9	2	2	3	6	5	8	6
SI-3	10	6	15	9	13	5	4	5	7	7	12	9
SI-6	11	5	15	11	15	4	4	7	8	8	16	10
SI-7	22	15	21	25	21	15	15	19	10	13	31	31
SI-66	6	3	8	9	6	2	2	2	6	5	5	7

Table C-308 Total Nitrogen Annual Maximum in Lake Sinclair (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.84	1.01	0.93	1.06	0.93	0.87	0.87	0.75	0.92	0.86	0.99	0.96
301170701	1.04	1.07	1.02	1.15	1.00	0.93	0.99	0.90	1.07	0.96	1.05	1.06
301180104	1.07	1.18	1.12	1.27	1.15	1.03	1.16	0.98	1.19	1.05	1.12	1.12
301100603	1.28	1.60	1.33	1.53	1.24	1.40	1.45	1.34	1.48	1.43	1.45	1.54
SI-1	0.84	1.01	0.93	1.06	0.93	0.87	0.87	0.75	0.92	0.86	0.99	0.96
SI-2	1.04	1.18	1.02	1.22	1.07	1.01	1.08	0.98	1.17	1.04	1.10	1.11
SI-3	1.19	1.49	1.26	1.48	1.21	1.34	1.33	1.18	1.46	1.27	1.25	1.35
SI-6	1.02	1.28	1.05	1.23	1.22	1.26	1.35	1.20	1.21	1.12	1.29	1.43
SI-7	1.88	2.21	1.36	1.74	1.35	2.22	2.20	1.61	1.59	1.74	1.96	1.98
SI-66	1.03	1.30	1.02	1.31	1.02	1.21	1.19	0.99	1.25	1.12	1.11	1.13

Table C-309 Total Nitrogen Growing Season Average in Lake Sinclair (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.62	0.53	0.71	0.62	0.74	0.42	0.42	0.50	0.66	0.64	0.58	0.57
301170701	0.71	0.56	0.75	0.68	0.76	0.47	0.49	0.56	0.73	0.74	0.59	0.61
301180104	0.75	0.62	0.81	0.71	0.82	0.49	0.50	0.60	0.76	0.75	0.62	0.65
301100603	1.05	1.16	1.05	1.18	1.05	1.03	1.08	1.02	1.04	1.09	1.06	1.25
SI-1	0.62	0.53	0.71	0.62	0.74	0.42	0.42	0.50	0.66	0.64	0.58	0.57
SI-2	0.72	0.58	0.77	0.69	0.79	0.46	0.48	0.57	0.74	0.73	0.59	0.62
SI-3	0.97	0.97	0.98	1.04	1.00	0.83	0.83	0.86	0.95	1.01	0.91	1.07
SI-6	0.77	0.68	0.80	0.82	0.79	0.66	0.67	0.76	0.79	0.85	0.79	0.74
SI-7	1.06	1.43	0.95	1.17	0.94	1.53	1.48	1.25	1.06	1.08	1.42	1.47
SI-66	0.64	0.59	0.64	0.63	0.63	0.43	0.47	0.54	0.67	0.59	0.56	0.64

Table C-310 Total Phosphorus Growing Season Average in Lake Sinclair (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.036	0.016	0.050	0.023	0.047	0.014	0.013	0.017	0.040	0.032	0.028	0.027
301170701	0.038	0.018	0.049	0.026	0.047	0.015	0.014	0.021	0.042	0.038	0.026	0.027
301180104	0.036	0.018	0.046	0.024	0.043	0.014	0.014	0.019	0.036	0.031	0.025	0.024
301100603	0.046	0.038	0.055	0.039	0.052	0.036	0.032	0.033	0.048	0.042	0.041	0.036
SI-1	0.036	0.016	0.050	0.023	0.047	0.014	0.013	0.017	0.040	0.032	0.028	0.027
SI-2	0.036	0.017	0.047	0.024	0.044	0.014	0.013	0.019	0.037	0.033	0.024	0.024
SI-3	0.041	0.029	0.051	0.032	0.048	0.026	0.022	0.025	0.042	0.038	0.032	0.031
SI-6	0.048	0.027	0.055	0.040	0.054	0.024	0.024	0.037	0.054	0.052	0.037	0.039
SI-7	0.066	0.060	0.065	0.064	0.063	0.063	0.064	0.067	0.071	0.068	0.063	0.073
SI-66	0.028	0.015	0.035	0.023	0.030	0.010	0.011	0.013	0.030	0.023	0.018	0.022

Table C-311 Chlorophyll a Growing Season Average in Lake Sinclair (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	4	1	7	3	6	1	1	1	5	3	5	4
301170701	6	2	11	5	10	2	2	3	6	6	8	5
301180104	5	2	9	5	8	1	1	2	5	3	6	5
301100603	8	5	13	7	11	5	4	4	6	4	11	6
SI-1	4	1	7	3	6	1	1	1	5	3	5	4
SI-2	6	2	9	5	8	1	1	2	5	4	6	5
SI-3	7	4	12	6	11	3	3	3	6	5	10	6
SI-6	9	4	13	8	13	3	3	5	7	7	12	8
SI-7	15	8	16	16	17	8	8	12	7	10	18	18
SI-66	4	2	6	7	5	1	1	1	4	3	4	5

Table C-312 Total Nitrogen Annual Maximum in Lake Sinclair (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.50	0.35	0.55	0.65	0.57	0.38	0.31	0.29	0.60	0.59	0.49	0.27
301170701	0.76	0.52	0.85	0.93	0.79	0.59	0.69	0.64	1.07	0.77	0.62	0.66
301180104	0.56	0.46	0.63	0.58	0.64	0.50	0.49	0.43	0.62	0.60	0.55	0.38
301100603	0.59	0.45	0.65	0.57	0.67	0.52	0.43	0.36	0.68	0.64	0.64	0.36
SI-1	0.50	0.35	0.55	0.65	0.57	0.38	0.31	0.29	0.60	0.59	0.49	0.27
SI-2	0.64	0.46	0.77	0.62	0.61	0.56	0.53	0.55	0.66	0.71	0.60	0.57
SI-3	0.71	0.46	0.69	0.55	0.66	0.51	0.40	0.38	0.69	0.63	0.63	0.33
SI-6	0.81	0.72	0.91	1.20	0.82	0.71	0.73	0.71	1.14	0.92	0.74	0.72
SI-7	1.02	0.76	0.99	1.30	1.06	0.85	0.80	0.76	1.49	1.51	0.94	0.80
SI-66	0.78	0.51	0.65	0.90	0.70	0.31	0.52	0.22	0.85	0.74	0.43	0.21

Table C-313 Total Nitrogen Growing Season Average in Lake Sinclair (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.31	0.16	0.42	0.25	0.41	0.17	0.17	0.17	0.36	0.30	0.28	0.15
301170701	0.40	0.21	0.51	0.31	0.51	0.20	0.21	0.25	0.45	0.45	0.31	0.19
301180104	0.35	0.19	0.46	0.25	0.44	0.17	0.18	0.19	0.36	0.30	0.28	0.16
301100603	0.41	0.27	0.53	0.34	0.51	0.29	0.25	0.25	0.41	0.37	0.36	0.25
SI-1	0.31	0.16	0.42	0.25	0.41	0.17	0.17	0.17	0.36	0.30	0.28	0.15
SI-2	0.37	0.19	0.47	0.27	0.45	0.18	0.18	0.21	0.38	0.36	0.28	0.17
SI-3	0.39	0.26	0.52	0.32	0.50	0.26	0.24	0.23	0.40	0.37	0.34	0.22
SI-6	0.50	0.29	0.57	0.46	0.58	0.29	0.30	0.38	0.56	0.56	0.41	0.28
SI-7	0.59	0.48	0.63	0.60	0.64	0.53	0.57	0.58	0.65	0.68	0.60	0.55
SI-66	0.28	0.16	0.35	0.25	0.32	0.12	0.14	0.14	0.32	0.22	0.21	0.13

Table C-314 Total Phosphorus Growing Season Average in Lake Sinclair (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.028	0.010	0.043	0.017	0.039	0.010	0.010	0.012	0.034	0.026	0.022	0.022
301170701	0.033	0.013	0.044	0.020	0.043	0.011	0.011	0.017	0.038	0.035	0.022	0.021
301180104	0.027	0.011	0.039	0.016	0.035	0.010	0.009	0.012	0.028	0.022	0.019	0.018
301100603	0.033	0.022	0.045	0.024	0.041	0.024	0.021	0.021	0.036	0.029	0.030	0.019
SI-1	0.028	0.010	0.043	0.017	0.039	0.010	0.010	0.012	0.034	0.026	0.022	0.022
SI-2	0.029	0.011	0.041	0.017	0.037	0.010	0.010	0.014	0.031	0.027	0.020	0.019
SI-3	0.030	0.018	0.043	0.021	0.039	0.019	0.015	0.017	0.033	0.027	0.025	0.020
SI-6	0.040	0.018	0.048	0.030	0.047	0.015	0.016	0.026	0.047	0.044	0.028	0.029
SI-7	0.048	0.032	0.054	0.043	0.053	0.032	0.034	0.043	0.055	0.054	0.038	0.043
SI-66	0.021	0.009	0.029	0.016	0.024	0.007	0.007	0.008	0.024	0.016	0.013	0.017

Table C-315 Chlorophyll a Growing Season Average in Lake Sinclair (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	2	0	4	1	3	0	0	1	3	2	3	2
301170701	4	1	6	2	5	1	1	1	3	3	5	3
301180104	3	1	6	2	4	1	1	1	3	2	4	3
301100603	5	2	7	3	6	3	2	2	3	2	6	3
SI-1	2	0	4	1	3	0	0	1	3	2	3	2
SI-2	3	1	5	2	4	1	1	1	3	2	4	3
SI-3	4	2	7	3	6	2	1	2	3	2	5	4
SI-6	5	2	7	4	7	1	1	2	4	4	7	4
SI-7	7	3	9	6	9	2	2	4	4	4	6	7
SI-66	2	1	3	4	2	0	0	1	2	1	2	3

Table C-316 Total Nitrogen Annual Maximum in Lake Sinclair (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.33	0.16	0.31	0.40	0.32	0.19	0.17	0.16	0.43	0.38	0.25	0.13
301170701	0.46	0.24	0.55	0.50	0.50	0.34	0.45	0.39	0.60	0.45	0.34	0.38
301180104	0.43	0.26	0.39	0.37	0.39	0.27	0.31	0.27	0.42	0.37	0.28	0.21
301100603	0.57	0.22	0.38	0.36	0.40	0.30	0.26	0.22	0.43	0.38	0.33	0.23
SI-1	0.33	0.16	0.31	0.40	0.32	0.19	0.17	0.16	0.43	0.38	0.25	0.13
SI-2	0.42	0.25	0.50	0.42	0.40	0.30	0.41	0.30	0.41	0.40	0.32	0.33
SI-3	0.70	0.27	0.43	0.34	0.39	0.28	0.22	0.20	0.45	0.37	0.32	0.18
SI-6	0.55	0.46	0.60	0.86	0.52	0.40	0.50	0.46	0.79	0.58	0.45	0.42
SI-7	0.65	0.51	0.66	1.02	0.67	0.51	0.54	0.48	1.11	0.99	0.63	0.47
SI-66	0.45	0.24	0.39	0.57	0.36	0.15	0.32	0.12	0.49	0.47	0.21	0.10

Table C-317 Total Nitrogen Growing Season Average in Lake Sinclair (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.17	0.08	0.23	0.12	0.22	0.09	0.09	0.09	0.20	0.15	0.14	0.08
301170701	0.21	0.10	0.28	0.15	0.28	0.10	0.10	0.13	0.24	0.23	0.16	0.10
301180104	0.19	0.09	0.25	0.12	0.23	0.09	0.09	0.10	0.19	0.14	0.14	0.08
301100603	0.21	0.15	0.28	0.17	0.27	0.18	0.18	0.15	0.22	0.17	0.20	0.16
SI-1	0.17	0.08	0.23	0.12	0.22	0.09	0.09	0.09	0.20	0.15	0.14	0.08
SI-2	0.19	0.09	0.26	0.13	0.24	0.09	0.10	0.11	0.20	0.18	0.15	0.09
SI-3	0.20	0.13	0.28	0.16	0.26	0.15	0.15	0.13	0.21	0.17	0.18	0.14
SI-6	0.26	0.13	0.32	0.21	0.34	0.13	0.14	0.17	0.32	0.29	0.21	0.12
SI-7	0.29	0.19	0.34	0.28	0.34	0.19	0.18	0.21	0.34	0.31	0.23	0.15
SI-66	0.14	0.08	0.18	0.12	0.16	0.07	0.07	0.08	0.16	0.10	0.10	0.07

Table C-318 Total Phosphorus Growing Season Average in Lake Sinclair (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.017	0.005	0.026	0.009	0.023	0.005	0.006	0.006	0.021	0.014	0.013	0.017
301170701	0.019	0.006	0.026	0.010	0.026	0.006	0.006	0.009	0.023	0.019	0.013	0.016
301180104	0.016	0.006	0.024	0.008	0.021	0.005	0.005	0.006	0.017	0.011	0.011	0.014
301100603	0.019	0.011	0.027	0.011	0.024	0.013	0.012	0.011	0.021	0.014	0.017	0.010
SI-1	0.017	0.005	0.026	0.009	0.023	0.005	0.006	0.006	0.021	0.014	0.013	0.017
SI-2	0.017	0.006	0.025	0.008	0.022	0.005	0.005	0.007	0.018	0.014	0.011	0.014
SI-3	0.018	0.009	0.026	0.010	0.023	0.010	0.009	0.009	0.019	0.013	0.014	0.013
SI-6	0.023	0.009	0.029	0.014	0.030	0.007	0.008	0.012	0.029	0.024	0.016	0.021
SI-7	0.024	0.013	0.030	0.021	0.030	0.009	0.009	0.014	0.030	0.024	0.014	0.023
SI-66	0.012	0.005	0.016	0.008	0.013	0.004	0.004	0.004	0.014	0.007	0.007	0.014

Table C-319 Chlorophyll a Growing Season Average in Lake Sinclair (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	5	2	7	3	6	1	1	2	6	4	6	6
301170701	7	3	11	6	10	2	2	3	6	6	8	6
301180104	7	3	11	6	9	2	2	3	6	5	8	6
301100603	11	8	15	11	14	7	6	6	8	6	14	11
SI-1	5	2	7	3	6	1	1	2	6	4	6	6
SI-2	6	2	10	6	9	2	2	3	6	5	7	6
SI-3	9	5	14	8	13	4	4	4	7	6	11	8
SI-6	11	5	15	10	15	3	3	7	8	8	15	10
SI-7	21	14	21	24	21	14	14	18	10	13	29	28
SI-66	5	3	7	9	5	1	2	2	5	4	5	7

Table C-320 Total Nitrogen Annual Maximum in Lake Sinclair (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.76	0.81	0.79	0.86	0.82	0.77	0.68	0.66	0.77	0.76	0.87	0.84
301170701	0.94	0.83	0.88	0.99	0.90	0.82	0.77	0.79	0.96	0.82	0.93	0.92
301180104	0.97	1.01	0.91	1.02	0.97	0.90	0.93	0.89	0.94	0.84	0.99	1.00
301100603	1.14	1.41	1.02	1.24	1.05	1.11	1.15	1.06	1.05	1.08	1.12	1.19
SI-1	0.76	0.81	0.79	0.86	0.82	0.77	0.68	0.66	0.77	0.76	0.87	0.84
SI-2	0.95	0.94	0.90	1.01	0.93	0.89	0.85	0.87	0.94	0.82	0.98	0.99
SI-3	1.10	1.32	0.96	1.19	1.01	1.07	1.09	1.01	1.01	1.04	1.09	1.14
SI-6	0.87	1.07	0.95	1.22	0.96	0.81	1.01	0.87	1.19	1.02	0.96	1.08
SI-7	1.52	1.53	1.14	1.40	1.14	1.57	1.73	1.26	1.54	1.62	1.52	1.58
SI-66	0.83	0.86	0.85	1.09	0.83	0.75	0.84	0.71	0.92	0.85	0.90	0.90

Table C-321 Total Nitrogen Growing Season Average in Lake Sinclair (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.50	0.45	0.58	0.51	0.60	0.34	0.35	0.42	0.54	0.50	0.48	0.47
301170701	0.56	0.45	0.62	0.54	0.63	0.37	0.39	0.45	0.60	0.58	0.47	0.48
301180104	0.59	0.50	0.65	0.56	0.66	0.39	0.40	0.48	0.60	0.56	0.49	0.52
301100603	0.80	0.88	0.82	0.94	0.83	0.79	0.84	0.78	0.79	0.79	0.80	0.98
SI-1	0.50	0.45	0.58	0.51	0.60	0.34	0.35	0.42	0.54	0.50	0.48	0.47
SI-2	0.57	0.47	0.63	0.55	0.64	0.37	0.38	0.46	0.59	0.56	0.47	0.49
SI-3	0.74	0.77	0.77	0.84	0.79	0.66	0.68	0.68	0.73	0.75	0.70	0.86
SI-6	0.64	0.51	0.68	0.67	0.68	0.49	0.50	0.58	0.68	0.71	0.60	0.55
SI-7	0.88	1.08	0.82	0.97	0.82	1.16	1.18	1.02	0.90	0.93	1.13	1.17
SI-66	0.48	0.46	0.50	0.50	0.49	0.32	0.36	0.42	0.51	0.42	0.42	0.49

Table C-322 Total Phosphorus Growing Season Average in Lake Sinclair (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.034	0.015	0.048	0.022	0.045	0.013	0.013	0.016	0.039	0.031	0.027	0.026
301170701	0.037	0.017	0.048	0.025	0.046	0.013	0.013	0.020	0.040	0.036	0.025	0.025
301180104	0.034	0.017	0.045	0.022	0.042	0.013	0.013	0.017	0.035	0.029	0.024	0.023
301100603	0.044	0.034	0.054	0.036	0.050	0.033	0.029	0.030	0.045	0.040	0.038	0.032
SI-1	0.034	0.015	0.048	0.022	0.045	0.013	0.013	0.016	0.039	0.031	0.027	0.026
SI-2	0.035	0.016	0.046	0.022	0.042	0.013	0.012	0.018	0.036	0.032	0.023	0.023
SI-3	0.039	0.027	0.050	0.030	0.046	0.024	0.020	0.023	0.040	0.036	0.031	0.029
SI-6	0.047	0.024	0.054	0.038	0.053	0.021	0.021	0.034	0.053	0.051	0.035	0.037
SI-7	0.065	0.057	0.065	0.063	0.064	0.059	0.061	0.066	0.070	0.069	0.062	0.071
SI-66	0.026	0.014	0.034	0.021	0.028	0.009	0.010	0.012	0.028	0.021	0.016	0.021

Table C-323 Chlorophyll a Growing Season Average in Lake Sinclair (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	4	1	7	3	6	1	1	1	6	3	5	5
301170701	7	2	11	5	10	2	2	3	6	6	8	5
301180104	6	2	10	5	8	1	1	2	5	4	6	5
301100603	9	5	13	8	12	5	4	4	6	4	11	7
SI-1	4	1	7	3	6	1	1	1	6	3	5	5
SI-2	6	2	10	5	8	1	1	2	5	4	7	5
SI-3	8	4	13	6	11	3	3	3	6	5	10	7
SI-6	9	4	13	9	13	3	3	5	7	7	12	8
SI-7	16	9	16	16	16	9	9	13	8	10	20	20
SI-66	4	2	7	7	5	1	1	1	5	3	4	6

Table C-324 Total Nitrogen Annual Maximum in Lake Sinclair (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.57	0.42	0.62	0.69	0.64	0.45	0.36	0.35	0.65	0.66	0.57	0.34
301170701	0.81	0.59	0.96	0.99	0.89	0.64	0.77	0.72	1.08	0.85	0.69	0.71
301180104	0.62	0.51	0.71	0.63	0.73	0.56	0.55	0.50	0.69	0.67	0.63	0.42
301100603	0.68	0.53	0.76	0.65	0.78	0.61	0.50	0.43	0.75	0.73	0.75	0.45
SI-1	0.57	0.42	0.62	0.69	0.64	0.45	0.36	0.35	0.65	0.66	0.57	0.34
SI-2	0.72	0.53	0.87	0.66	0.71	0.61	0.58	0.62	0.72	0.77	0.67	0.63
SI-3	0.71	0.52	0.78	0.60	0.75	0.59	0.46	0.44	0.76	0.71	0.73	0.41
SI-6	0.86	0.78	1.00	1.21	0.89	0.76	0.79	0.78	1.13	1.00	0.79	0.77
SI-7	1.10	0.81	1.06	1.29	1.11	0.87	0.83	0.83	1.42	1.60	0.96	0.84
SI-66	0.89	0.60	0.81	1.01	0.88	0.37	0.65	0.29	0.96	0.86	0.51	0.28

Table C-325 Total Nitrogen Growing Season Average in Lake Sinclair (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.37	0.21	0.49	0.30	0.48	0.21	0.21	0.22	0.43	0.36	0.34	0.19
301170701	0.47	0.26	0.58	0.38	0.57	0.26	0.26	0.31	0.52	0.52	0.37	0.24
301180104	0.42	0.24	0.54	0.32	0.52	0.22	0.23	0.24	0.43	0.36	0.34	0.21
301100603	0.50	0.36	0.62	0.42	0.60	0.37	0.32	0.31	0.50	0.45	0.44	0.34
SI-1	0.37	0.21	0.49	0.30	0.48	0.21	0.21	0.22	0.43	0.36	0.34	0.19
SI-2	0.43	0.24	0.55	0.33	0.52	0.23	0.23	0.26	0.45	0.43	0.34	0.21
SI-3	0.48	0.33	0.61	0.40	0.58	0.33	0.30	0.29	0.48	0.44	0.42	0.30
SI-6	0.57	0.35	0.65	0.54	0.64	0.36	0.37	0.46	0.63	0.64	0.49	0.35
SI-7	0.66	0.58	0.69	0.67	0.68	0.64	0.65	0.66	0.72	0.73	0.68	0.65
SI-66	0.35	0.21	0.42	0.30	0.38	0.17	0.18	0.19	0.38	0.28	0.26	0.17

Table C-326 Total Phosphorus Growing Season Average in Lake Sinclair (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
301170702	0.030	0.011	0.044	0.018	0.040	0.010	0.010	0.012	0.035	0.026	0.023	0.022
301170701	0.034	0.014	0.045	0.022	0.044	0.012	0.012	0.018	0.039	0.036	0.023	0.022
301180104	0.028	0.012	0.040	0.017	0.036	0.010	0.010	0.013	0.029	0.022	0.020	0.019
301100603	0.034	0.023	0.046	0.025	0.042	0.023	0.019	0.020	0.036	0.030	0.029	0.021
SI-1	0.030	0.011	0.044	0.018	0.040	0.010	0.010	0.012	0.035	0.026	0.023	0.022
SI-2	0.030	0.012	0.042	0.018	0.038	0.010	0.010	0.014	0.032	0.028	0.020	0.020
SI-3	0.032	0.019	0.044	0.022	0.040	0.018	0.015	0.017	0.033	0.028	0.025	0.022
SI-6	0.040	0.019	0.049	0.032	0.048	0.017	0.017	0.028	0.047	0.044	0.028	0.030
SI-7	0.049	0.035	0.054	0.045	0.052	0.037	0.038	0.045	0.056	0.054	0.041	0.047
SI-66	0.022	0.010	0.030	0.017	0.025	0.007	0.007	0.009	0.025	0.017	0.013	0.017

C.2.14 Lake Jackson

Table C-327 Lake Jackson Stations

Station	Station Description	Latitude	Longitude
403090302	Lake Jackson at confluence of Alcovy River and Yellow/South Rivers	33.368229	-83.863339
403090306	Lake Jackson - Dam Forebay	33.322000	-83.840900

Table C-328 Chlorophyll a Growing Season Average in Lake Jackson (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	12	12	7	8	7	13	19	15	8	8	12	13
403090306	11	12	8	10	8	14	19	14	8	7	9	13

Table C-329 Total Nitrogen Annual Maximum in Lake Jackson (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	2.47	3.09	1.55	1.96	1.67	2.51	3.35	2.98	1.85	2.25	2.45	2.25
403090306	1.89	1.80	1.30	1.38	1.20	1.56	1.97	1.89	1.35	1.37	1.57	1.46

Table C-330 Total Nitrogen Growing Season Average in Lake Jackson (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	1.36	1.47	1.02	1.15	1.02	1.45	1.87	1.55	1.13	1.22	1.43	1.38
403090306	1.07	1.24	0.88	0.97	0.88	1.20	1.43	1.29	0.98	1.03	1.19	1.17

Table C-331 Total Phosphorus Growing Season Average in Lake Jackson (Calibration Scenario)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	0.055	0.055	0.056	0.061	0.055	0.066	0.071	0.073	0.065	0.060	0.070	0.065
403090306	0.071	0.076	0.066	0.074	0.066	0.088	0.101	0.094	0.076	0.072	0.084	0.087

Table C-332 Chlorophyll a Growing Season Average in Lake Jackson (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	11	9	7	7	7	12	17	11	7	8	10	12
403090306	12	14	9	11	9	15	21	15	8	7	10	16

Table C-333 Total Nitrogen Annual Maximum in Lake Jackson (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	5.90	6.67	3.79	4.20	3.43	5.15	6.76	6.27	4.71	5.42	6.38	6.16
403090306	4.73	3.88	2.65	2.87	2.43	3.20	4.43	4.16	3.24	3.28	4.27	4.11

Table C-334 Total Nitrogen Growing Season Average in Lake Jackson (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	2.74	2.99	1.73	2.29	1.71	2.95	4.01	3.42	2.33	2.71	3.58	3.55
403090306	2.05	2.46	1.40	1.92	1.36	2.35	3.17	2.75	1.89	2.14	2.83	3.03

Table C-335 Total Phosphorus Growing Season Average in Lake Jackson (Current Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	0.085	0.090	0.067	0.076	0.065	0.087	0.100	0.100	0.083	0.087	0.104	0.100
403090306	0.091	0.099	0.073	0.083	0.072	0.101	0.119	0.108	0.088	0.090	0.108	0.116

Table C-336 Chlorophyll a Growing Season Average in Lake Jackson (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	8	8	6	6	6	9	11	9	6	7	8	10
403090306	8	9	7	7	7	10	12	9	6	5	6	9

Table C-337 Total Nitrogen Annual Maximum in Lake Jackson (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	0.96	1.13	0.96	0.98	1.06	1.01	0.89	1.06	1.10	1.08	0.95	0.99
403090306	0.88	0.91	0.92	0.84	0.94	0.89	0.81	0.85	0.95	0.94	0.87	0.76

Table C-338 Total Nitrogen Growing Season Average in Lake Jackson (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	0.55	0.52	0.54	0.48	0.54	0.52	0.57	0.59	0.61	0.54	0.60	0.59
403090306	0.54	0.54	0.53	0.48	0.56	0.54	0.58	0.60	0.61	0.53	0.60	0.57

Table C-339 Total Phosphorus Growing Season Average in Lake Jackson (Current NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	0.038	0.039	0.038	0.035	0.037	0.038	0.040	0.044	0.046	0.042	0.047	0.045
403090306	0.055	0.058	0.051	0.049	0.052	0.058	0.065	0.064	0.060	0.055	0.064	0.064

Table C-340 Chlorophyll a Growing Season Average in Lake Jackson (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	5	3	4	4	5	6	6	4	4	5	5	4
403090306	4	3	4	4	4	4	5	3	3	3	3	3

Table C-341 Total Nitrogen Annual Maximum in Lake Jackson (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	0.78	0.81	0.72	0.80	0.80	0.77	0.67	0.62	0.85	0.77	0.69	0.55
403090306	0.51	0.61	0.67	0.54	0.57	0.55	0.55	0.33	0.73	0.75	0.54	0.30

Table C-342 Total Nitrogen Growing Season Average in Lake Jackson (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	0.23	0.16	0.28	0.22	0.32	0.24	0.23	0.19	0.27	0.28	0.27	0.22
403090306	0.23	0.18	0.29	0.23	0.33	0.25	0.26	0.22	0.29	0.29	0.27	0.21

Table C-343 Total Phosphorus Growing Season Average in Lake Jackson (Natural Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	0.014	0.010	0.018	0.014	0.019	0.014	0.014	0.013	0.019	0.019	0.019	0.015
403090306	0.024	0.017	0.026	0.022	0.029	0.026	0.030	0.023	0.029	0.031	0.029	0.023

Table C-344 Chlorophyll a Growing Season Average in Lake Jackson (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	14	10	10	8	9	15	19	12	7	8	10	16
403090306	20	24	14	18	14	25	37	22	11	10	14	28

Table C-345 Total Nitrogen Annual Maximum in Lake Jackson (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	10.53	11.45	6.14	7.65	6.43	9.10	12.42	11.30	8.55	10.90	11.84	10.16
403090306	8.87	7.24	5.06	5.07	4.54	5.91	7.94	6.94	5.89	6.82	7.98	6.95

Table C-346 Total Nitrogen Growing Season Average in Lake Jackson (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	4.84	5.29	3.08	4.15	3.00	5.25	7.02	5.80	3.97	4.91	6.34	5.79
403090306	3.57	4.36	2.39	3.35	2.27	4.17	5.55	4.61	3.13	3.81	5.11	4.89

Table C-347 Total Phosphorus Growing Season Average in Lake Jackson (Future Condition)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	0.242	0.270	0.167	0.219	0.164	0.263	0.331	0.293	0.217	0.256	0.320	0.286
403090306	0.206	0.244	0.150	0.196	0.145	0.238	0.297	0.256	0.187	0.217	0.278	0.273

Table C-348 Chlorophyll a Growing Season Average in Lake Jackson (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	9	8	6	7	6	10	12	10	7	7	8	11
403090306	9	10	8	8	8	11	13	11	7	6	7	10

Table C-349 Total Nitrogen Annual Maximum in Lake Jackson (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	1.17	1.19	1.15	1.16	1.21	1.19	1.06	1.29	1.19	1.21	1.14	1.16
403090306	1.13	1.02	1.11	1.02	1.08	1.04	0.98	1.11	1.11	1.11	1.06	0.93

Table C-350 Total Nitrogen Growing Season Average in Lake Jackson (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	0.66	0.65	0.65	0.59	0.64	0.63	0.67	0.70	0.72	0.64	0.71	0.69
403090306	0.66	0.67	0.66	0.58	0.67	0.64	0.67	0.71	0.73	0.63	0.71	0.68

Table C-351 Total Phosphorus Growing Season Average in Lake Jackson (Future NPS)

Station	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
403090302	0.047	0.050	0.048	0.044	0.046	0.047	0.048	0.053	0.055	0.052	0.058	0.052
403090306	0.067	0.071	0.063	0.059	0.063	0.069	0.073	0.075	0.070	0.064	0.074	0.076