ANNEX XII: APPENDIX B

2013 PLANKTON TAXONOMY DATA

Tables

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lac du Sauvage	Late Spring	Aa-1	Bacillariophyceae	20,483	17,111	18	0.19
				Chlorophyceae	24,188	32,880	30	
				Chrysophyceae	221,970	218,700	1	
				Cryptophyceae	2,044	8,976	126	
				Cyanobacteria	173,477	51,995	108	
				Euglenophyceae	0	0	-	
				Dinophyceae	8,583	13,464	44	
				Xanthophyceae	0	0	-	
				Total	**450,746**	**343,126**	27	
Lac du Sauvage	Lac du Sauvage	Late Spring	Ab-1	Bacillariophyceae	31,626	28,787	9	0.15
				Chlorophyceae	9,981	33,755	109	
				Chrysophyceae	251,175	236,827	6	
				Cryptophyceae	10,082	14,156	34	
				Cyanobacteria	64,570	5,630	168	
				Euglenophyceae	0	0	-	
				Dinophyceae	8,249	9,929	18	
				Xanthophyceae	0	0	-	
				Total	**375,682**	**329,083**	13	
Lac du Sauvage	Lac du Sauvage	Late Spring	Ac-1	Bacillariophyceae	29,635	43,177	37	0.19
				Chlorophyceae	18,061	30,867	52	
				Chrysophyceae	227,244	296,105	26	
				Cryptophyceae	6,220	5,540	12	
				Cyanobacteria	13,316	56,760	124	
				Euglenophyceae	0	0	-	
				Dinophyceae	136	107	24	
				Xanthophyceae	0	0	-	
				Total	**294,612**	**432,556**	38	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lac du Sauvage	Late Spring	Ac-4	Bacillariophyceae	43,164	4,005	166	0.24
				Chlorophyceae	18,403	35,770	64	
				Chrysophyceae	368,450	467,701	24	
				Cryptophyceae	137	128	7	
				Cyanobacteria	80,449	217,156	92	
				Euglenophyceae	0	0	-	
				Dinophyceae	3,713	4,342	16	
				Xanthophyceae	0	0	-	
				Total	**514,316**	**729,102**	35	
Lac du Sauvage	Lac du Sauvage	Late Spring	Ac-7	Bacillariophyceae	362	3,238	160	0.25
				Chlorophyceae	52,354	23,475	76	
				Chrysophyceae	288,142	282,047	2	
				Cryptophyceae	6,080	2,871	72	
				Cyanobacteria	26,435	209,710	155	
				Euglenophyceae	0	0	-	
				Dinophyceae	7,640	6,932	10	
				Xanthophyceae	0	0	-	
				Total	**381,013**	**528,272**	32	
Lac du Sauvage	Lac du Sauvage	Late Spring	Ad-1	Bacillariophyceae	6,105	1,933	104	0.15
				Chlorophyceae	110,173	59,888	59	
				Chrysophyceae	235,794	284,304	19	
				Cryptophyceae	3,011	10,188	109	
				Cyanobacteria	36,187	34,533	5	
				Euglenophyceae	0	0	-	
				Dinophyceae	4,017	11,163	94	
				Xanthophyceae	0	0	-	
				Total	**395,286**	**402,009**	2	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lac du Sauvage	Late Spring	Ae-1	Bacillariophyceae	1,535	4,474	98	0.16
				Chlorophyceae	73,565	27,756	90	
				Chrysophyceae	231,318	294,072	24	
				Cryptophyceae	2,535	754	108	
				Cyanobacteria	59,195	64,169	8	
				Euglenophyceae	0	0	-	
				Dinophyceae	14,117	10,395	30	
				Xanthophyceae	0	0	-	
				Total	**382,265**	**401,620**	5	
Lac du Sauvage	Lac du Sauvage	Summer	Aa-1	Bacillariophyceae	7,800	17,537	77	0.17
				Chlorophyceae	1,848	11,816	146	
				Chrysophyceae	1,099,578	786,508	33	
				Cryptophyceae	0	8,546	200	
				Cyanobacteria	47,532	50,677	6	
				Euglenophyceae	0	2,849	200	
				Dinophyceae	3,858	3,121	21	
				Xanthophyceae	0	0	-	
				Total	**1,160,617**	**881,053**	27	
Lac du Sauvage	Lac du Sauvage	Summer	Ab-1	Bacillariophyceae	2,304	5,236	78	0.06
				Chlorophyceae	17,373	30,957	56	
				Chrysophyceae	371,614	396,803	7	
				Cryptophyceae	13,725	13,743	0	
				Cyanobacteria	15,063	22,499	40	
				Euglenophyceae	0	0	-	
				Dinophyceae	347	4,781	173	
				Xanthophyceae	0	0	-	
				Total	**420,425**	**474,018**	12	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lac du Sauvage	Summer	Ac-1	Bacillariophyceae	2,954	2,716	8	0.09
				Chlorophyceae	28,516	22,367	24	
				Chrysophyceae	549,954	471,057	15	
				Cryptophyceae	25,695	30,553	17	
				Cyanobacteria	12,775	6,207	69	
				Euglenophyceae	2,118	0	200	
				Dinophyceae	8,612	2,185	119	
				Xanthophyceae	0	0	-	
				Total	**630,623**	**535,085**	16	
Lac du Sauvage	Lac du Sauvage	Summer	Ac-4	Bacillariophyceae	7,002	7,063	1	0.08
				Chlorophyceae	44,405	18,218	84	
				Chrysophyceae	443,727	428,715	3	
				Cryptophyceae	21,218	16,688	24	
				Cyanobacteria	194,737	139,456	33	
				Euglenophyceae	0	3,338	200	
				Dinophyceae	12,511	7,063	56	
				Xanthophyceae	0	0	-	
				Total	**723,599**	**620,542**	15	
Lac du Sauvage	Lac du Sauvage	Summer	Ac-7	Bacillariophyceae	10,957	5,362	69	0.09
				Chlorophyceae	19,734	24,493	22	
				Chrysophyceae	411,026	472,553	14	
				Cryptophyceae	25,985	14,006	60	
				Cyanobacteria	4,458	6,744	41	
				Euglenophyceae	1,624	1,751	8	
				Dinophyceae	3,392	7,119	71	
				Xanthophyceae	0	0	-	
				Total	**477,176**	**532,028**	11	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lac du Sauvage	Summer	Ad-1	Bacillariophyceae	9,808	6,892	35	0.30
				Chlorophyceae	8,250	21,453	89	
				Chrysophyceae	441,214	461,258	4	
				Cryptophyceae	31,682	17,522	58	
				Cyanobacteria	9,000	368,170	190	
				Euglenophyceae	3,504	0	200	
				Dinophyceae	21,169	15,770	29	
				Xanthophyceae	0	0	-	
				Total	**524,628**	**891,066**	52	
Lac du Sauvage	Lac du Sauvage	Summer	Ae-1	Bacillariophyceae	354,031	2,237	197	0.55
				Chlorophyceae	18,122	129,201	151	
				Chrysophyceae	393,136	794,863	68	
				Cryptophyceae	26,026	32,760	23	
				Cyanobacteria	237,200	16,810	174	
				Euglenophyceae	0	0	-	
				Dinophyceae	139	12,146	195	
				Xanthophyceae	0	0	-	
				Total	**1,028,654**	**988,017**	4	
Lac du Sauvage	Lac du Sauvage	Fall	Aa-1	Bacillariophyceae	57,142	13,989	121	0.12
				Chlorophyceae	41,098	10,280	120	
				Chrysophyceae	363,895	333,623	9	
				Cryptophyceae	88,694	80,034	10	
				Cyanobacteria	5,282	12,530	81	
				Euglenophyceae	0	0	-	
				Dinophyceae	22,974	23,895	4	
				Xanthophyceae	0	0	-	
				Total	**579,085**	**474,350**	20	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lac du Sauvage	Fall	Ab-1	Bacillariophyceae	72,273	82,306	13	0.08
				Chlorophyceae	18,897	13,193	36	
				Chrysophyceae	542,382	583,106	7	
				Cryptophyceae	30,575	43,044	34	
				Cyanobacteria	4,833	14,964	102	
				Euglenophyceae	0	414	200	
				Dinophyceae	39,635	3,449	168	
				Xanthophyceae	0	0	-	
				Total	**708,595**	**740,476**	4	
Lac du Sauvage	Lac du Sauvage	Fall	Ac-1	Bacillariophyceae	86,597	105,914	20	0.11
				Chlorophyceae	8,119	26,433	106	
				Chrysophyceae	661,062	597,484	10	
				Cryptophyceae	25,235	44,813	56	
				Cyanobacteria	106,767	37,903	95	
				Euglenophyceae	0	137	200	
				Dinophyceae	21,797	31,093	35	
				Xanthophyceae	0	0	-	
				Total	**909,578**	**843,778**	8	
Lac du Sauvage	Lac du Sauvage	Fall	Ac-4	Bacillariophyceae	78,245	88,338	12	0.15
				Chlorophyceae	31,168	44,529	35	
				Chrysophyceae	434,646	406,067	7	
				Cryptophyceae	28,338	43,702	43	
				Cyanobacteria	127,656	9,297	173	
				Euglenophyceae	0	0	-	
				Dinophyceae	21,164	31,760	40	
				Xanthophyceae	0	0	-	
				Total	**721,217**	**623,693**	15	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lac du Sauvage	Fall	Ac-7	Bacillariophyceae	50,102	91,769	59	0.40
				Chlorophyceae	17,412	53,974	102	
				Chrysophyceae	289,667	486,917	51	
				Cryptophyceae	62,292	28,809	74	
				Cyanobacteria	28,102	272,759	163	
				Euglenophyceae	137	2,048	175	
				Dinophyceae	12,667	28,605	77	
				Xanthophyceae	0	0	-	
				Total	**460,378**	**964,882**	71	
Lac du Sauvage	Lac du Sauvage	Fall	Ad-1	Bacillariophyceae	15,110	84,472	139	0.15
				Chlorophyceae	35,596	77,771	74	
				Chrysophyceae	485,682	569,224	16	
				Cryptophyceae	63,249	55,724	13	
				Cyanobacteria	19,616	11,584	51	
				Euglenophyceae	1,304	1,029	24	
				Dinophyceae	12,317	19,087	43	
				Xanthophyceae	0	0	-	
				Total	**632,874**	**818,891**	26	
Lac du Sauvage	Lac du Sauvage	Fall	Ae-1	Bacillariophyceae	81,871	77,611	5	0.10
				Chlorophyceae	41,559	21,147	65	
				Chrysophyceae	615,738	524,607	16	
				Cryptophyceae	58,080	71,898	21	
				Cyanobacteria	10,902	25,990	82	
				Euglenophyceae	298	867	98	
				Dinophyceae	20,793	12,873	47	
				Xanthophyceae	14	0	200	
				Total	**829,256**	**734,993**	12	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Duchess Lake	Late Spring	Af-1	Bacillariophyceae	372	3,744	164	0.23
				Chlorophyceae	128,243	223,585	54	
				Chrysophyceae	174,054	349,288	67	
				Cryptophyceae	4,793	853	140	
				Cyanobacteria	301,294	382,862	24	
				Euglenophyceae	0	0	-	
				Dinophyceae	18,655	11,657	46	
				Xanthophyceae	0	0	-	
				Total	**627,412**	**971,990**	43	
Lac du Sauvage	Duchess Lake	Late Spring	Af-7	Bacillariophyceae	1,705	15,067	159	0.27
				Chlorophyceae	178,749	159,289	12	
				Chrysophyceae	327,654	180,169	58	
				Cryptophyceae	6,170	13,737	76	
				Cyanobacteria	356,488	667,222	61	
				Euglenophyceae	0	2,098	200	
				Dinophyceae	17,465	5,160	109	
				Xanthophyceae	1,404	1,668	17	
				Total	**889,636**	**1,044,410**	16	
Lac du Sauvage	Duchess Lake	Summer	Af-1	Bacillariophyceae	7,926	12,976	48	0.16
				Chlorophyceae	217,529	118,722	59	
				Chrysophyceae	753,264	958,002	24	
				Cryptophyceae	40,270	66,176	49	
				Cyanobacteria	39,331	38,719	2	
				Euglenophyceae	0	7,338	200	
				Dinophyceae	12,485	22,555	57	
				Xanthophyceae	0	3,669	200	
				Total	**1,070,805**	**1,228,155**	14	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Duchess Lake	Summer	Af-7	Bacillariophyceae	1,435	12,491	159	0.05
				Chlorophyceae	147,797	128,176	14	
				Chrysophyceae	826,541	894,920	8	
				Cryptophyceae	25,507	43,119	51	
				Cyanobacteria	116,969	117,113	0	
				Euglenophyceae	3,625	7,187	66	
				Dinophyceae	32,622	28,746	13	
				Xanthophyceae	0	0	-	
				Total	**1,154,495**	**1,231,752**	6	
Lac du Sauvage	Duchess Lake	Fall	Af-1	Bacillariophyceae	24,956	21,142	17	0.12
				Chlorophyceae	10,222	67,362	147	
				Chrysophyceae	1,134,995	1,009,653	12	
				Cryptophyceae	75,072	137,092	58	
				Cyanobacteria	63,051	103,784	49	
				Euglenophyceae	3,746	0	200	
				Dinophyceae	27,441	43,669	46	
				Xanthophyceae	0	7,776	200	
				Total	**1,339,483**	**1,390,477**	4	
Lac du Sauvage	Duchess Lake	Fall	Af-7	Bacillariophyceae	13,145	10,761	20	0.16
				Chlorophyceae	46,190	84,201	58	
				Chrysophyceae	1,301,718	1,063,994	20	
				Cryptophyceae	106,397	170,357	46	
				Cyanobacteria	132,145	13,578	163	
				Euglenophyceae	0	0	-	
				Dinophyceae	39,852	20,154	66	
				Xanthophyceae	0	0	-	
				Total	**1,639,448**	**1,363,045**	18	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lake Af1	Late Spring	Af-10	Bacillariophyceae	10,597	21,032	66	0.26
				Chlorophyceae	728,366	1,288,538	56	
				Chrysophyceae	316,949	240,457	27	
				Cryptophyceae	4,873	1,198	121	
				Cyanobacteria	5,597,724	3,249,988	53	
				Euglenophyceae	287	150	63	
				Dinophyceae	17,054	24,053	34	
				Xanthophyceae	16,684	17,424	4	
				Total	**6,692,533**	**4,842,839**	32	
Lac du Sauvage	Lake Af1	Summer	Af-10	Bacillariophyceae	52,203	14,287	114	0.22
				Chlorophyceae	700,175	1,037,872	39	
				Chrysophyceae	821,598	973,643	17	
				Cryptophyceae	48,864	15,513	104	
				Cyanobacteria	3,364,537	1,925,870	54	
				Euglenophyceae	12,216	139	195	
				Dinophyceae	24,432	37,738	43	
				Xanthophyceae	0	0	-	
				Total	**5,024,026**	**4,005,063**	23	
Lac du Sauvage	Lake Af1	Fall	Af-10	Bacillariophyceae	35,806	34,024	5	0.19
				Chlorophyceae	69,694	343,869	133	
				Chrysophyceae	530,303	588,211	10	
				Cryptophyceae	8,670	6,560	28	
				Cyanobacteria	813,191	572,947	35	
				Euglenophyceae	141	2,869	181	
				Dinophyceae	8,389	12,435	39	
				Xanthophyceae	2,562	2,869	11	
				Total	**1,468,755**	**1,563,784**	6	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lake E1	Summer	E-L1-1	Bacillariophyceae	5,812	7,006	19	0.12
				Chlorophyceae	84,437	125,343	39	
				Chrysophyceae	655,627	730,756	11	
				Cryptophyceae	92,445	48,955	62	
				Cyanobacteria	50,670	91,329	57	
				Euglenophyceae	5,556	6,039	8	
				Dinophyceae	8,462	30,197	112	
				Xanthophyceae	0	0	-	
				Total	**903,011**	**1,039,625**	14	
Lac du Sauvage	Lake E1	Fall	E-L1-1	Bacillariophyceae	15,742	12,205	25	0.42
				Chlorophyceae	47,397	90,740	63	
				Chrysophyceae	416,565	379,295	9	
				Cryptophyceae	32,706	13,440	84	
				Cyanobacteria	754,841	81,433	161	
				Euglenophyceae	3,568	11,946	108	
				Dinophyceae	0	0	-	
				Xanthophyceae	3,443	2,987	14	
				Total	**1,274,261**	**592,045**	73	
Lac de Gras	Paul Lake	Late Spring	PL-1	Bacillariophyceae	1,626	21,287	172	0.44
				Chlorophyceae	127,598	145,352	13	
				Chrysophyceae	165,625	474,191	96	
				Cryptophyceae	180,237	152,050	17	
				Cyanobacteria	110,483	625,339	140	
				Euglenophyceae	0	0	-	
				Dinophyceae	12,915	10,308	22	
				Xanthophyceae	0	0	-	
				Total	**598,483**	**1,428,527**	82	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac de Gras	Paul Lake	Late Spring	PL-2	Bacillariophyceae	15,356	6,905	76	0.27
				Chlorophyceae	85,610	71,879	17	
				Chrysophyceae	425,757	259,592	48	
				Cryptophyceae	261,131	121,722	73	
				Cyanobacteria	437,187	776,057	56	
				Euglenophyceae	142	141	1	
				Dinophyceae	8,515	1,784	131	
				Xanthophyceae	0	0	-	
				Total	**1,233,697**	**1,238,080**	0	
Lac de Gras	Paul Lake	Late Spring	PL-3	Bacillariophyceae	36,268	11,855	101	0.21
				Chlorophyceae	77,645	118,525	42	
				Chrysophyceae	198,686	238,667	18	
				Cryptophyceae	78,292	145,191	60	
				Cyanobacteria	173,571	103,567	51	
				Euglenophyceae	0	0	-	
				Dinophyceae	9,285	1,688	138	
				Xanthophyceae	0	0	-	
				Total	**573,748**	**619,494**	8	
Lac de Gras	Paul Lake	Late Spring	PL-4	Bacillariophyceae	44,123	7,180	144	0.28
				Chlorophyceae	207,584	108,698	63	
				Chrysophyceae	166,586	235,163	34	
				Cryptophyceae	145,024	151,913	5	
				Cyanobacteria	561,872	243,911	79	
				Euglenophyceae	0	1,766	200	
				Dinophyceae	4,678	3,543	28	
				Xanthophyceae	0	1,766	200	
				Total	**1,129,868**	**753,940**	40	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac de Gras	Paul Lake	Summer	PL-1	Bacillariophyceae	5,240	1,126	129	0.26
				Chlorophyceae	187,034	42,863	125	
				Chrysophyceae	511,861	495,584	3	
				Cryptophyceae	298,422	313,573	5	
				Cyanobacteria	2,063,833	1,010,969	68	
				Euglenophyceae	16,949	9,592	55	
				Dinophyceae	54,237	12,907	123	
				Xanthophyceae	0	0	-	
				Total	**3,137,575**	**1,886,614**	50	
Lac de Gras	Paul Lake	Summer	PL-2	Bacillariophyceae	3,010	12,543	123	0.16
				Chlorophyceae	117,395	86,886	30	
				Chrysophyceae	610,707	531,001	14	
				Cryptophyceae	25,988	14,287	58	
				Cyanobacteria	1,168,071	770,009	41	
				Euglenophyceae	0	0	-	
				Dinophyceae	20,790	30,955	39	
				Xanthophyceae	0	0	-	
				Total	**1,945,960**	**1,445,681**	30	
Lac de Gras	Paul Lake	Summer	PL-3	Bacillariophyceae	6,819	10,006	38	0.35
				Chlorophyceae	59,708	117,398	65	
				Chrysophyceae	423,523	351,777	19	
				Cryptophyceae	69,189	94,277	31	
				Cyanobacteria	836,343	222,813	116	
				Euglenophyceae	0	3,626	200	
				Dinophyceae	16,773	9,065	60	
				Xanthophyceae	0	0	-	
				Total	**1,412,355**	**808,962**	54	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac de Gras	Paul Lake	Summer	PL-5	Bacillariophyceae	7,832	12,572	46	0.05
				Chlorophyceae	55,105	74,937	31	
				Chrysophyceae	497,635	492,487	1	
				Cryptophyceae	19,703	28,681	37	
				Cyanobacteria	817,278	929,249	13	
				Euglenophyceae	5,057	11,950	81	
				Dinophyceae	17,240	16,730	3	
				Xanthophyceae	0	0	-	
				Total	**1,419,850**	**1,566,605**	10	
Lac de Gras	Paul Lake	Fall	PL-2	Bacillariophyceae	16,987	17,054	0	0.20
				Chlorophyceae	48,426	59,860	21	
				Chrysophyceae	669,515	696,017	4	
				Cryptophyceae	228,759	214,301	7	
				Cyanobacteria	303,952	0	200	
				Euglenophyceae	6,532	128,096	181	
				Dinophyceae	3,411	7,119	70	
				Xanthophyceae	0	0	-	
				Total	**1,277,581**	**1,122,448**	13	
Lac de Gras	Paul Lake	Fall	PL-3	Bacillariophyceae	24,950	38,523	43	0.08
				Chlorophyceae	77,166	88,388	14	
				Chrysophyceae	798,083	806,538	1	
				Cryptophyceae	156,597	187,017	18	
				Cyanobacteria	49,799	164,650	107	
				Euglenophyceae	3,856	0	200	
				Dinophyceae	11,857	4,377	92	
				Xanthophyceae	0	0	-	
				Total	**1,122,307**	**1,289,494**	14	

Table B-1 Quality Control Comparison of Phytoplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (cells/L)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac de Gras	Paul Lake	Fall	PL-4	Bacillariophyceae	49,337	22,657	74	0.25
				Chlorophyceae	211,193	161,293	27	
				Chrysophyceae	591,815	728,610	21	
				Cryptophyceae	171,715	154,932	10	
				Cyanobacteria	512,641	63,730	156	
				Euglenophyceae	22,146	18,113	20	
				Dinophyceae	0	0	-	
				Xanthophyceae	3,164	0	200	
				Total	**1,562,011**	**1,149,333**	30	
Lac de Gras	Paul Lake	Fall	PL-5	Bacillariophyceae	56,894	36,725	43	0.08
				Chlorophyceae	95,218	81,319	16	
				Chrysophyceae	673,060	736,517	9	
				Cryptophyceae	272,654	199,106	31	
				Cyanobacteria	574,758	637,627	10	
				Euglenophyceae	0	0	-	
				Dinophyceae	21,798	844	185	
				Xanthophyceae	0	0	-	
				Total	**1,694,382**	**1,692,139**	0	

Notes: Grey shaded cells indicate the RPD between replicates was greater than 50%. Underlined numbers indicate the Bray Curtis similarity index comparing replicates was greater than 0.50. Total RPD (%) and total (**bolded**) values are rounded to the nearest whole number.

cells/L = number of cells per litre; % = percent; RPD = relative percent difference; Late Spring = July; Summer = August; Fall = September; - = not applicable.

Table B-2 Quality Control Comparison of Zooplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (org/m^3)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lac du Sauvage	Late Spring	Aa-1	Cladocera	10,703	14,253	7	0.16
				Calanoida	0	219	50	
				Cyclopoida	0	0	0	
				Rotifera	28,068	39,361	8	
				Total	**31,984**	**44,953**	**34**	
Lac du Sauvage	Lac du Sauvage	Late Spring	Ab-1	Cladocera	2,530	4,797	15	0.38
				Calanoida	73	0	50	
				Cyclopoida	1,907	3,575	15	
				Rotifera	26,377	60,249	20	
				Total	**25,654**	**57,776**	**77**	
Lac du Sauvage	Lac du Sauvage	Late Spring	Ac-1	Cladocera	2,260	2,855	6	0.04
				Calanoida	0	0	0	
				Cyclopoida	3,712	3,289	3	
				Rotifera	33,463	35,816	2	
				Total	**35,890**	**38,091**	**6**	
Lac du Sauvage	Lac du Sauvage	Late Spring	Ac-4	Cladocera	2,990	2,791	2	0.23
				Calanoida	0	0	0	
				Cyclopoida	4,286	5,382	6	
				Rotifera	66,905	40,492	12	
				Total	**56,056**	**35,125**	**46**	
Lac du Sauvage	Lac du Sauvage	Late Spring	Ac-7	Cladocera	3,426	1,925	14	0.20
				Calanoida	0	0	0	
				Cyclopoida	3,883	2,937	7	
				Rotifera	53,094	35,126	10	
				Total	**50,435**	**33,525**	**40**	
Lac du Sauvage	Lac du Sauvage	Late Spring	Ad-1	Cladocera	17,969	20,192	3	0.09
				Calanoida	0	594	50	
				Cyclopoida	3,198	8,314	22	
				Rotifera	89,174	78,512	3	
				Total	**100,001**	**91,933**	**8**	

Table B-2 Quality Control Comparison of Zooplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (org/m^3)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lac du Sauvage	Late Spring	Ae-1	Cladocera	3,932	4,087	1	0.03
				Calanoida	249	797	26	
				Cyclopoida	664	1,495	19	
				Rotifera	39,969	41,364	1	
				Total	**41,821**	**43,398**	**4**	
Lac du Sauvage	Lac du Sauvage	Summer	Aa-1	Cladocera	81,408	73,459	3	0.06
				Calanoida	1,645	1,645	0	
				Cyclopoida	0	0	0	
				Rotifera	43,582	50,684	4	
				Total	**80,339**	**85,273**	**6**	
Lac du Sauvage	Lac du Sauvage	Summer	Ab-1	Cladocera	35,633	36,944	1	0.04
				Calanoida	3,575	2,383	10	
				Cyclopoida	5,720	8,342	9	
				Rotifera	49,100	46,213	2	
				Total	**56,381**	**54,761**	**3**	
Lac du Sauvage	Lac du Sauvage	Summer	Ac-1	Cladocera	57,680	56,489	1	0.06
				Calanoida	1,788	2,503	8	
				Cyclopoida	9,296	5,005	15	
				Rotifera	83,374	72,649	3	
				Total	**103,110**	**91,597**	**12**	
Lac du Sauvage	Lac du Sauvage	Summer	Ac-4	Cladocera	36,131	42,236	4	0.09
				Calanoida	3,115	1,682	15	
				Cyclopoida	5,607	3,364	13	
				Rotifera	51,830	60,888	4	
				Total	**65,597**	**75,577**	**14**	
Lac du Sauvage	Lac du Sauvage	Summer	Ac-7	Cladocera	98,915	67,333	9	0.18
				Calanoida	2,383	2,383	0	
				Cyclopoida	8,342	5,959	8	
				Rotifera	85,011	60,249	9	
				Total	**109,044**	**76,510**	**35**	

Table B-2 Quality Control Comparison of Zooplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (org/m^3)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lac du Sauvage	Summer	Ad-1	Cladocera	65,943	70,710	2	0.05
				Calanoida	0	2,979	50	
				Cyclopoida	1,788	2,383	7	
				Rotifera	63,379	68,254	2	
				Total	**91,883**	**98,795**	**7**	
Lac du Sauvage	Lac du Sauvage	Summer	Ae-1	Cladocera	71,477	85,393	4	0.08
				Calanoida	3,163	3,163	0	
				Cyclopoida	2,530	3,163	6	
				Rotifera	52,903	47,153	3	
				Total	**81,787**	**79,574**	**3**	
Lac du Sauvage	Lac du Sauvage	Fall	Aa-1	Cladocera	24,821	21,243	4	0.05
				Calanoida	0	0	0	
				Cyclopoida	305	305	0	
				Rotifera	25,826	24,669	1	
				Total	**37,978**	**35,054**	**8**	
Lac du Sauvage	Lac du Sauvage	Fall	Ab-1	Cladocera	3,785	5,645	10	0.11
				Calanoida	0	131	50	
				Cyclopoida	3,002	3,133	1	
				Rotifera	8,223	9,910	5	
				Total	**15,297**	**18,561**	**19**	
Lac du Sauvage	Lac du Sauvage	Fall	Ac-1	Cladocera	733	3,392	32	0.42
				Calanoida	21	75	29	
				Cyclopoida	658	1,960	25	
				Rotifera	5,944	12,534	18	
				Total	**10,673**	**23,201**	**74**	
Lac du Sauvage	Lac du Sauvage	Fall	Ac-4	Cladocera	5,202	5,069	1	0.07
				Calanoida	125	131	1	
				Cyclopoida	3,489	1,962	14	
				Rotifera	11,002	9,862	3	
				Total	**20,757**	**17,883**	**15**	

Table B-2 Quality Control Comparison of Zooplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (org/m^3)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lac du Sauvage	Fall	Ac-7	Cladocera	2,949	3,426	4	0.11
				Calanoida	249	0	50	
				Cyclopoida	872	934	2	
				Rotifera	10,181	13,100	6	
				Total	**18,676**	**24,395**	**27**	
Lac du Sauvage	Lac du Sauvage	Fall	Ad-1	Cladocera	3,706	4,207	3	0.11
				Calanoida	0	114	50	
				Cyclopoida	1,005	571	14	
				Rotifera	11,481	9,102	6	
				Total	**20,591**	**16,115**	**24**	
Lac du Sauvage	Lac du Sauvage	Fall	Ae-1	Cladocera	1,878	2,373	6	0.03
				Calanoida	76	0	50	
				Cyclopoida	1,066	1,218	3	
				Rotifera	8,996	8,902	0	
				Total	**14,482**	**14,702**	**2**	
Lac du Sauvage	Duchess Lake	Late Spring	Af-1	Cladocera	28,781	32,078	3	0.08
				Calanoida	0	0	0	
				Cyclopoida	0	0	0	
				Rotifera	54,820	66,428	5	
				Total	**72,317**	**86,781**	**18**	
			Af-7	Cladocera	10,980	22,504	17	0.19
				Calanoida	0	0	0	
				Cyclopoida	187	0	50	
				Rotifera	40,218	51,705	6	
				Total	**45,245**	**60,956**	**30**	

Table B-2 Quality Control Comparison of Zooplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (org/m^3)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Duchess Lake	Summer	Af-1	Cladocera	142,240	120,751	4	0.08
				Calanoida	3,070	0	0	
				Cyclopoida	0	0	0	
				Rotifera	31,257	30,420	1	
				Total	**78,590**	**70,762**	**10**	
			Af-7	Cladocera	44,902	37,869	4	0.11
				Calanoida	541	0	0	
				Cyclopoida	0	0	0	
				Rotifera	32,369	24,765	7	
				Total	**54,532**	**42,954**	**24**	
Lac du Sauvage	Duchess Lake	Fall	Af-1	Cladocera	47,345	25,001	15	0.31
				Calanoida	0	0	0	
				Cyclopoida	374	0	50	
				Rotifera	18,066	9,718	15	
				Total	**37,751**	**19,785**	**62**	
			Af-7	Cladocera	39,625	37,103	2	0.08
				Calanoida	0	0	0	
				Cyclopoida	0	238	50	
				Rotifera	12,786	19,111	10	
				Total	**26,929**	**32,701**	**19**	
Lac du Sauvage	Lake Af1	Late Spring	Af-10	Cladocera	674	310	19	0.18
				Calanoida	1,468	1,260	4	
				Cyclopoida	0	73	50	
				Rotifera	23,159	33,340	9	
				Total	**21,569**	**28,174**	**27**	
Lac du Sauvage	Lake Af1	Summer	Af-10	Cladocera	6,578	548	42	0.04
				Calanoida	731	731	0	
				Cyclopoida	731	2,193	0	
				Rotifera	555,511	522,162	2	
				Total	**248,079**	**244,936**	**1**	

Table B-2 Quality Control Comparison of Zooplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (org/m^3)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac du Sauvage	Lake Af1	Fall	Af-10	Cladocera	3,411	4,842	9	0.11
				Calanoida	183	137	7	
				Cyclopoida	365	959	22	
				Rotifera	75,560	93,057	5	
				Total	**68,927**	**84,039**	**20**	
Lac du Sauvage	Lake E1	Summer	E-L1-1	Cladocera	5,808	6,787	4	0.17
				Calanoida	0	261	50	
				Cyclopoida	0	0	0	
				Rotifera	20,942	14,039	10	
				Total	**34,641**	**27,488**	**23**	
Lac du Sauvage	Lake E1	Fall	E-L1-1	Cladocera	8,321	10,377	5	0.07
				Calanoida	392	0	50	
				Cyclopoida	0	0	0	
				Rotifera	42,446	37,983	3	
				Total	**46,793**	**42,955**	**9**	
Lac de Gras	Paul Lake	Late Spring	PL-1	Cladocera	7,709	8,223	2	0.05
				Calanoida	1,927	1,542	6	
				Cyclopoida	2,484	2,827	3	
				Rotifera	73,048	66,469	2	
				Total	**44,027**	**40,567**	**8**	
Lac de Gras	Paul Lake	Late Spring	PL-2	Cladocera	14,619	8,375	14	0.12
				Calanoida	10,165	7,652	7	
				Cyclopoida	7,538	5,939	6	
				Rotifera	108,544	88,809	5	
				Total	**74,236**	**56,876**	**26**	
Lac de Gras	Paul Lake	Late Spring	PL-3	Cladocera	4,112	3,495	4	0.08
				Calanoida	3,156	3,106	0	
				Cyclopoida	3,613	5,619	11	
				Rotifera	45,494	39,157	4	
				Total	**54,297**	**47,392**	**14**	

Table B-2 Quality Control Comparison of Zooplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (org/m^3)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac de Gras	Paul Lake	Late Spring	PL-4	Cladocera	11,649	13,248	3	0.16
				Calanoida	5,025	5,482	2	
				Cyclopoida	3,084	5,254	13	
				Rotifera	41,229	60,607	10	
				Total	**41,286**	**56,922**	**32**	
Lac de Gras	Paul Lake	Summer	PL-1	Cladocera	3,426	6,339	15	0.09
				Calanoida	508	609	5	
				Cyclopoida	13,324	11,878	3	
				Rotifera	69,134	81,773	4	
				Total	**60,591**	**65,236**	**7**	
Lac de Gras	Paul Lake	Summer	PL-2	Cladocera	2,415	2,447	0	0.10
				Calanoida	3,328	2,643	0	
				Cyclopoida	21,341	17,768	5	
				Rotifera	75,495	62,025	5	
				Total	**60,087**	**53,538**	**12**	
Lac de Gras	Paul Lake	Summer	PL-3	Cladocera	1,590	1,206	7	0.13
				Calanoida	9,621	10,197	1	
				Cyclopoida	12,581	17,433	8	
				Rotifera	18,880	13,617	8	
				Total	**23,255**	**29,471**	**24**	
Lac de Gras	Paul Lake	Summer	PL-5	Cladocera	10,324	12,060	4	0.06
				Calanoida	1,919	4,020	18	
				Cyclopoida	14,253	19,187	7	
				Rotifera	80,037	75,378	1	
				Total	**44,048**	**43,089**	**2**	
Lac de Gras	Paul Lake	Fall	PL-2	Cladocera	11,667	12,370	1	0.13
				Calanoida	211	527	21	
				Cyclopoida	8,856	14,127	11	
				Rotifera	72,893	95,664	7	
				Total	**74,640**	**92,477**	**21**	

Table B-2 Quality Control Comparison of Zooplankton Abundance Data in Split Samples for Lakes in the Jay Project Area, July to September, 2013

Basin	Lake	Sampling Period	Station	Major Taxonomic Group	Abundance (org/m^3)		RPD (%)	Bray Curtis Index
					Replicate 1	Replicate 2		
Lac de Gras	Paul Lake	Fall	PL-3	Cladocera	2,824	3,239	3	0.06
				Calanoida	1,993	1,682	4	
				Cyclopoida	10,466	8,223	6	
				Rotifera	68,027	61,050	3	
				Total	**60,502**	**56,029**	**8**	
Lac de Gras	Paul Lake	Fall	PL-4	Cladocera	748	1,196	12	0.15
				Calanoida	748	1,121	10	
				Cyclopoida	7,289	15,885	19	
				Rotifera	60,765	74,755	5	
				Total	**64,289**	**90,005**	**33**	
Lac de Gras	Paul Lake	Fall	PL-5	Cladocera	10,279	9,014	3	0.09
				Calanoida	4,744	2,530	15	
				Cyclopoida	8,539	13,916	12	
				Rotifera	94,248	107,216	3	
				Total	**65,152**	**69,263**	**6**	

Note: Grey shaded cells indicate the RPD between replicates was greater than 50%.

org/m^3 = number of organisms per cubic metre; % = percent; RPD = relative percent difference; Late Spring = July; Summer = August; Fall = September.

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
24-Jul-13	Aa-1	Bacillariophyceae	*Asterionella formosa*	14,065	13,519	13,792	16	13	14
			Fragilaria spp.	0	410	205	0	0	0
			Navicula sp.	0	1,122	561	0	1	1
			Nitzschia spp.	137	137	137	0	0	0
			Synedra sp.	0	12	6	0	0	0
			Tabellaria sp.	6,281	1,912	4,097	20	4	12
		Chlorophyceae	*Ankistrodesmus falcatus*	2,861	0	1,431	7	0	4
			Botryococcus protuberans	0	3,004	1,502	0	0	0
			Crucigenia tetrapedia	0	1,122	561	0	4	2
			Euastrum elegans	0	137	68	0	1	0
			Euastrum pulchellum	0	137	68	0	1	0
			Gonatozygon brebissonii	0	12	6	0	0	0
			Monoraphidium komarkovae	0	1,122	561	0	0	0
			Mougeotia sp.	7,630	17,952	12,791	5	7	6
			Pediastrum tetras	7,630	0	3,815	1	0	0
			Roya sp.	4,779	3,960	4,370	9	6	7
			Sphaerocystis planktonica	0	2,185	1,092	0	1	1
			Staurodesmus sp.	954	137	545	18	7	12
			Teilingia excavata	0	857	428	0	0	0
			Teilingia granulata	335	2,244	1,290	1	3	2
			Xanthidium antilopaeum	0	12	6	0	3	1
		Chrysophyceae	*Chrysocapsella planctonica*	12,398	17,952	15,175	10	6	8
			Dinobryon bavaricum	7,101	2,458	4,779	72	9	40
			Dinobryon divergens	4,916	819	2,868	21	4	13
			Mallomonas insignis	11,444	4,488	7,966	6	7	7
			Ochromonas sp.	184,063	192,983	188,523	7	7	7
			Synuropsis sp.	2,048	0	1,024	2	0	1
		Cryptophyceae	*Cryptomonas* sp.	137	8,976	4,556	1	40	20
			Cryptomonas sp. 2	1,907	0	954	5	0	3

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
24-Jul-13	Aa-1	Cyanobacteria	*Anabaena* sp.	70,870	17,342	44,106	8	2	5
			Aphanocapsa incerta	95,369	0	47,685	0	0	0
			Coelosphaerium sp.	0	33,660	16,830	0	0	0
			Leptolyngbya sp.	7,237	0	3,619	0	0	0
			Microcystis flos-aquae	0	993	497	0	0	0
		Dinophyceae	*Peridinium* sp.	8,583	13,464	11,024	80	25	53
23-Jul-13	Ab-1	Bacillariophyceae	*Asterionella formosa*	27,427	26,612	27,019	22	25	23
			Fragilaria spp.	525	896	710	0	0	0
			Navicula sp.	131	0	66	0	0	0
			Nitzschia spp.	131	256	194	0	0	0
			Tabellaria sp.	3,412	1,024	2,218	13	3	8
		Chlorophyceae	*Botryococcus protuberans*	0	3,966	1,983	0	0	0
			Cosmarium sp.	0	993	496	0	7	4
			Crucigenia tetrapedia	917	0	458	3	0	1
			Euastrum verrucosum	917	0	458	159	0	80
			Monoraphidium komarkovae	1,833	0	917	0	0	0
			Mougeotia sp.	2,750	2,979	2,864	1	3	2
			Roya sp.	1,181	0	591	1	0	1
			Sphaerocystis sp.	0	23,829	11,914	0	1	1
			Staurastrum sp.	131	128	130	0	2	1
			Staurodesmus sp.	0	256	128	0	43	22
			Staurodesmus triangularis	0	256	128	0	24	12
			Teilingia excavata	131	0	66	0	0	0
			Teilingia granulata	1,205	1,349	1,277	2	2	2
			Xanthidium sp.	917	0	458	0	0	0
		Chrysophyceae	*Chrysocapsella planctonica*	48,575	91,343	69,959	6	12	9
			Dinobryon bavaricum	39,410	337	19,874	93	2	47
			Dinobryon borgei	3,666	128	1,897	17	1	9
			Dinobryon divergens	966	2,047	1,507	4	7	5
			Mallomonas insignis	5,499	2,979	4,239	13	5	9
			Ochromonas sp.	153,058	139,993	146,525	11	6	9

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
23-Jul-13	Ab-1	Cryptophyceae	*Chroomonas* sp.	917	2,979	1,948	0	1	1
			Cryptomonas sp.	3,666	7,943	5,804	4	12	8
			Cryptomonas sp.	0	256	128	0	3	1
			Rhodomonas sp.	5,499	2,979	4,239	6	6	6
		Cyanobacteria	*Anabaena* sp.	9,580	5,630	7,605	1	1	1
			Aphanocapsa elachista	54,991	0	27,495	0	0	0
		Dinophyceae	*Peridinium* sp.	8,249	9,929	9,089	19	22	21
20-Jul-13	Ac-1	Bacillariophyceae	*Asterionella formosa*	28,391	41,719	35,055	23	29	26
			Fragilaria spp.	517	368	443	1	0	1
			Nitzschia spp.	0	993	497	0	0	0
			Tabellaria sp.	727	97	412	2	0	1
		Chlorophyceae	*Monoraphidium komarkovae*	3,785	0	1,893	0	0	0
			Mougeotia sp.	2,839	0	1,420	3	0	1
			Quadrigula closterioides	0	427	213	0	0	0
			Sphaerocystis sp.	7,571	19,866	13,718	2	2	2
			Spondylosium planum	160	0	80	0	0	0
			Staurastrum sp.	271	107	189	1	0	1
			Staurodesmus triangularis	136	0	68	7	0	3
			Teilingia excavata	0	1,241	621	0	1	0
			Teilingia granulata	2,353	1,280	1,816	4	2	3
			Tetrastrum triangulare	0	7,946	3,973	0	2	1
			Xanthidium sp.	946	0	473	1	0	0
		Chrysophyceae	*Chrysocapsella planctonica*	127,759	117,209	122,484	14	14	14
			Dinobryon bavaricum	468	28,806	14,637	2	70	36
			Dinobryon borgei	0	1,987	993	0	8	4
			Dinobryon divergens	1,675	1,096	1,386	5	5	5
			Mallomonas insignis	4,732	993	2,863	4	1	3
			Mallomonas sp.	0	6,953	3,477	0	12	6
			Ochromonas sp.	91,797	139,062	115,429	4	5	4
			Synuropsis sp.	813	0	407	0	0	0
		Cryptophyceae	*Chroomonas* sp.	1,893	2,560	2,226	0	12	6
			Cryptomonas sp.	542	0	271	5	0	2
			Cryptomonas sp. 3	3,785	2,980	3,383	11	13	12

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
20-Jul-13	Ac-1	Cyanobacteria	*Anabaena* sp.	13,316	12,761	13,039	2	2	2
			Aphanocapsa elachista	0	39,732	19,866	0	0	0
			Woronichinia naegeliana	0	4,267	2,133	0	0	0
		Dinophyceae	*Peridinium* sp.	136	107	121	1	0	1
21-Jul-13	Ac-4	Bacillariophyceae	*Asterionella formosa*	40,532	256	20,394	32	0	16
			Fragilaria spp.	571	0	286	0	0	0
			Navicula sp.	1,192	12	602	2	0	1
			Nitzschia spp.	273	3,574	1,924	0	2	1
			Tabellaria sp.	596	163	379	2	1	1
		Chlorophyceae	*Cosmarium* sp.	0	128	64	0	2	1
			Crucigenia tetrapedia	4,768	0	2,384	5	0	2
			Mougeotia sp.	2,384	70	1,227	1	0	1
			Sphaerocystis planktonica	0	28,594	14,297	0	2	1
			Spondylosium planum	732	0	366	1	0	1
			Staurastrum sp.	12	128	70	0	0	0
			Staurodesmus sp.	137	0	68	2	0	1
			Teilingia excavata	236	0	118	0	0	0
			Teilingia granulata	596	1,489	1,042	1	2	2
			Tetrastrum triangulare	9,537	0	4,768	2	0	1
			Xanthidium sp.	0	5,361	2,681	0	5	3
		Chrysophyceae	*Chrysocapsella planctonica*	157,360	264,497	210,928	26	63	45
			Dinobryon bavaricum	73,911	291	37,101	178	1	90
			Dinobryon borgei	137	5,361	2,749	1	28	14
			Dinobryon divergens	1,341	965	1,153	6	4	5
			Mallomonas insignis	0	1,787	894	0	2	1
			Mallomonas sp.	3,576	0	1,788	9	0	5
			Ochromonas sp.	129,941	194,799	162,370	8	7	8
			Synuropsis sp.	2,185	0	1,092	4	0	2
		Cryptophyceae	*Cryptomonas* sp.	137	128	132	0	1	1
		Cyanobacteria	*Anabaena* sp.	19,651	8,060	13,856	3	1	2
			Aphanocapsa elachista	0	142,972	71,486	0	0	0
			Leptolyngbya sp.	60,798	0	30,399	1	0	0
			Nostoc sp.	0	66,124	33,062	0	6	3

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
21-Jul-13	Ac-4	Dinophyceae	*Peridinium* sp.	137	640	388	0	3	2
			Peridinium umbonatum	3,576	3,574	3,575	7	5	6
			Peridinium willei	0	128	64	0	8	4
20-Jul-13	Ac-7	Bacillariophyceae	*Asterionella formosa*	125	32	78	0	0	0
			Fragilaria spp.	0	604	302	0	1	0
			Nitzschia spp.	0	116	58	0	0	0
			Pinnularia sp.	11	0	6	2	0	1
			Surirella sp.	11	0	6	1	0	0
			Synedra sp.	0	1,914	957	0	3	2
			Tabellaria sp.	215	572	393	1	2	1
		Chlorophyceae	*Botryococcus protuberans*	3,239	0	1,620	0	0	0
			Cosmarium sp.	125	0	62	1	0	1
			Crucigenia tetrapedia	5,801	3,828	4,814	10	8	9
			Gonatozygon monotaenium	57	0	28	3	0	1
			Mougeotia sp.	1,934	0	967	1	0	1
			Monoraphidium komarkovae	0	116	58	0	0	0
			Sphaerocystis planktonica	38,673	15,312	26,992	3	3	3
			Staurastrum sp.	11	233	122	0	0	0
			Staurodesmus sp.	125	0	62	24	0	12
			Teilingia excavata	204	0	102	0	0	0
			Teilingia granulata	2,186	3,028	2,607	3	4	3
			Xanthidium sp.	0	957	478	0	2	1
		Chrysophyceae	*Bitrichia chodatii*	967	957	962	2	1	2
			Chrysocapsella planctonica	136,321	163,646	149,984	47	41	44
			Dinobryon bavaricum	50,275	42,108	46,191	99	195	147
			Dinobryon borgei	3,867	2,871	3,369	18	11	15
			Dinobryon divergens	997	1,091	1,044	5	5	5
			Ochromonas sp.	95,715	69,861	82,788	3	2	3
			Synuropsis sp.	0	1,514	757	0	1	1
		Cryptophyceae	*Cryptomonas* sp.	1,246	2,871	2,058	3	4	4
			Cryptomonas sp. 3	3,867	0	1,934	8	0	4
			Rhodomonas sp.	967	0	483	2	0	1

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
20-Jul-13	Ac-7	Cyanobacteria	*Anabaena* sp.	26,435	13,860	20,148	4	2	3
			Aphanocapsa elachista	0	114,839	57,420	0	0	0
			Leptolyngbya sp.	0	77,517	38,758	0	0	0
			Woronichinia naegeliana	0	3,494	1,747	0	0	0
		Dinophyceae	*Gyrodinium helveticum*	125	0	62	3	0	1
			Peridinium sp.	623	233	428	5	1	3
			Peridinium umbonatum	6,768	6,699	6,733	17	20	18
			Peridinium willei	125	0	62	4	0	2
25-Jul-13	Ad-1	Bacillariophyceae	*Achnanthidium* spp.	3,011	0	1,505	0	0	0
			Asterionella formosa	431	240	336	1	0	0
			Cyclotella spp.	1,004	0	502	1	0	1
			Fragilaria spp.	222	160	191	0	0	0
			Navicula sp.	144	147	145	0	0	0
			Tabellaria sp.	1,293	1,387	1,340	3	6	4
		Chlorophyceae	*Ankistrodesmus falcatus*	287	0	144	0	0	0
			Cosmarium sp.	0	147	73	0	4	2
			Crucigenia tetrapedia	0	1,078	539	0	2	1
			Dictyosphaerium sp.	4,015	12,939	8,477	0	0	0
			Euastrum elegans	0	147	73	0	2	1
			Eudorina elegans	0	25,878	12,939	0	5	2
			Monoraphidium komarkovae	6,022	4,313	5,167	0	0	0
			Mougeotia sp.	2,007	14,080	8,044	1	5	3
			Pandorina morum	16,058	293	8,176	2	22	12
			Sphaerocystis planktonica	68,248	14,080	41,164	4	5	5
			Spondylosium planum	9,033	0	4,516	10	0	5
			Staurastrum sp.	13	0	7	0	0	0
			Staurodesmus sp.	2,007	0	1,004	284	0	142
			Staurodesmus triangularis	144	293	219	4	22	13
			Teilingia granulata	2,338	1,013	1,676	3	2	2

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
25-Jul-13	Ad-1	Chrysophyceae	*Bitrichia chodatii*	1,004	0	502	1	0	0
			Chrysocapsella planctonica	125,456	128,312	126,884	32	76	54
			Dinobryon bavaricum	118	253	185	0	1	1
			Dinobryon borgei	1,004	1,078	1,041	4	6	5
			Dinobryon divergens	823	1,013	918	3	4	3
			Mallomonas insignis	3,011	4,313	3,662	4	14	9
			Mallomonas sp.	2,007	2,157	2,082	4	8	6
			Ochromonas sp.	102,372	145,564	123,968	5	14	9
			Synuropsis sp.	0	1,613	807	0	1	0
		Cryptophyceae	*Cryptomonas* sp.	3,011	7,548	5,279	3	17	10
			Cryptomonas sp. 3	0	2,640	1,320	0	26	13
		Cyanobacteria	*Anabaena* sp.	27,996	34,533	31,265	4	4	4
			Leptolyngbya sp.	8,191	0	4,096	0	0	0
		Dinophyceae	*Peridinium* sp.	1,006	4,693	2,850	5	31	18
			Peridinium umbonatum	3,011	6,470	4,740	4	13	8
25-Jul-13	Ae-1	Bacillariophyceae	*Asterionella formosa*	343	329	336	0	0	0
			Fragilaria spp.	14	534	274	0	1	0
			Nitzschia spp.	0	3,158	1,579	0	2	1
			Synedra sp.	877	0	439	1	0	1
			Tabellaria sp.	301	452	377	1	2	1
		Chlorophyceae	*Botryococcus protuberans*	50,003	0	25,002	3	0	1
			Cosmarium sp.	151	0	75	2	0	1
			Dictyosphaerium sp.	0	16,843	8,422	0	1	1
			Mougeotia sp.	82	0	41	2	0	1
			Roya sp.	754	1,053	903	3	1	2
			Scenedesmus sp.	3,509	0	1,754	0	0	0
			Sphaerocystis sp.	17,545	8,422	12,983	3	2	2
			Staurastrum sp.	27	14	21	0	0	0
			Staurodesmus sp.	452	151	301	35	15	25
			Teilingia granulata	1,041	1,274	1,158	2	2	2

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
25-Jul-13	Ae-1	Chrysophyceae	*Chrysocapsella planctonica*	107,901	146,325	127,113	22	35	29
			Dinobryon bavaricum	754	110	432	2	0	1
			Dinobryon borgei	151	1,053	602	1	1	1
			Dinobryon divergens	973	260	617	4	1	2
			Mallomonas insignis	877	0	439	1	0	0
			Ochromonas sp.	119,306	146,325	132,815	9	8	9
			Synuropsis sp.	1,357	0	678	1	0	0
		Cryptophyceae	*Cryptomonas* sp.	877	0	439	1	0	1
			Cryptomonas sp. 3	1,658	754	1,206	7	5	6
		Cyanobacteria	*Anabaena* sp.	59,195	64,169	61,682	10	9	9
		Dinophyceae	*Peridinium* sp.	2,713	7,989	5,351	15	55	35
			Peridinium umbonatum	11,404	2,105	6,755	23	4	14
			Peridinium willei	0	301	151	0	21	11
13-Aug-13	Aa-1	Bacillariophyceae	*Achnanthidium* spp.	0	5,697	2,849	0	1	0
			Asterionella formosa	6,072	7,765	6,918	3	4	3
			Aulacoseira sp.	924	272	598	1	0	0
			Cyclotella spp.	0	2,849	1,424	0	1	1
			Navicula spp.	396	272	334	0	0	0
			Nitzschia spp.	0	136	68	0	0	0
			Pinnularia spp.	12	0	6	1	0	0
			Tabellaria sp.	396	545	470	1	2	2
		Chlorophyceae	*Chlorella ellipsoidea*	0	11,395	5,697	0	3	2
			Cosmarium sp.	0	136	68	0	1	0
			Monoraphidium komarkovae	132	136	134	0	0	0
			Mougeotia sp.	0	12	6	0	1	0
			Roya sp.	1,452	136	794	0	0	0
			Staurastrum sp.	132	0	66	3	0	2
			Teilingia granulata	132	0	66	0	0	0
		Chrysophyceae	*Dinobryon bavaricum*	168	136	152	0	0	0
			Dinobryon divergens	132	136	134	0	0	0
			Dinobryon sp.	7,453	2,849	5,151	0	0	0
			Mallomonas sp.	7,453	2,849	5,151	2	3	2
			Ochromonas sp.	1,084,373	780,538	932,455	78	102	90

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
13-Aug-13	Aa-1	Cryptophyceae	*Plagioselmis nannoplanctica*	0	8,546	4,273	0	1	0
		Cyanobacteria	*Anabaena circinalis*	26,940	37,054	31,997	3	4	4
			Anabaena sp.	18,612	12,942	15,777	2	1	2
			Leptolyngbya sp.	1,980	681	1,331	0	0	0
		Euglenophyceae	*Euglena* sp.	0	2,849	1,424	0	6	3
		Dinophyceae	*Peridinium inconspicuum*	3,726	2,849	3,288	5	8	6
			Peridinium umbonatum	132	272	202	1	1	1
12-Aug-13	Ab-1	Bacillariophyceae	*Asterionella formosa*	1,388	2,762	2,075	1	1	1
			Aulacoseira sp.	0	1,514	757	0	2	1
			Fragilaria spp.	0	480	240	0	0	0
			Tabellaria sp.	915	480	698	5	2	3
		Chlorophyceae	*Chlorella ellipsoidea*	12,249	9,082	10,665	2	2	2
			Chlorotetraedron incus	1,361	1,514	1,437	0	0	0
			Cosmarium sp.	0	120	60	0	1	0
			Crucigenia tetrapedia	0	12,109	6,054	0	1	0
			Dictyosphaerium sp.	0	1,921	961	0	0	0
			Elakatothrix gelatinosa	2,722	0	1,361	15	0	8
			Lagerheimia genevensis	0	1,514	757	0	0	0
			Monoraphidium komarkovae	116	360	238	0	0	0
			Oedogonium sp.	84	0	42	1	0	0
			Oocystis sp.	0	3,027	1,514	0	0	0
			Roya sp.	347	841	594	0	0	0
			Staurastrum sp.	116	0	58	2	0	1
			Staurodesmus triangularis	116	120	118	10	4	7
			Teilingia granulata	263	349	306	0	0	0
		Chrysophyceae	*Bitrichia chodatii*	1,361	0	680	157	0	79
			Dinobryon bavaricum	0	55	27	0	0	0
			Dinobryon borgei	0	3,027	1,514	0	1	1
			Dinobryon divergens	1,431	3,209	2,320	1	4	3
			Dinobryon sp.	0	33,299	16,650	0	1	1
			Mallomonas sp.	1,361	1,514	1,437	1	1	1
			Ochromonas sp.	367,461	355,699	361,580	49	47	48

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
12-Aug-13	Ab-1	Cryptophyceae	*Cryptomonas* sp. 2	116	120	118	0	0	0
			Plagioselmis nannoplanctica	13,610	13,623	13,616	1	1	1
		Cyanobacteria	*Anabaena circinalis*	0	3,166	1,583	0	0	0
			Anabaena sp.	12,959	13,329	13,144	1	2	1
			Aphanocapsa elachista	2,104	6,004	4,054	0	0	0
		Dinophyceae	*Gymnodinium* sp.	0	3,027	1,514	0	2	1
			Peridinium inconspicuum	0	1,514	757	0	1	0
			Peridinium umbonatum	347	240	294	2	1	1
10-Aug-13	Ac-1	Bacillariophyceae	*Asterionella formosa*	2,110	2,069	2,089	1	1	1
			Fragilaria spp.	141	388	264	0	0	0
			Tabellaria sp.	703	259	481	3	1	2
		Chlorophyceae	*Chlorella ellipsoidea*	6,353	1,797	4,075	1	0	1
			Chlorotetraedron incus	2,118	7,189	4,653	0	0	0
			Closteriopsis acicularis	2,118	0	1,059	0	0	0
			Cosmarium sp.	0	1,797	899	0	7	4
			Lagerheimia genevensis	8,471	0	4,236	1	0	0
			Micrasterias fimbriata	0	12	6	0	21	10
			Monoraphidium komarkovae	141	259	200	0	0	0
			Monoraphidium tortile	2,118	7,189	4,653	0	0	0
			Oocystis sp.	6,353	1,797	4,075	2	0	1
			Roya sp.	844	1,293	1,069	0	0	0
			Staurodesmus triangularis	0	129	65	0	21	11
			Teilingia granulata	0	905	453	0	1	0
		Chrysophyceae	*Bitrichia chodatii*	2,118	0	1,059	139	0	69
			Dinobryon bavaricum	141	59	100	0	0	0
			Dinobryon borgei	4,236	1,797	3,016	2	1	1
			Dinobryon divergens	1,304	129	717	1	0	1
			Dinobryon sp.	76,241	79,077	77,659	2	4	3
			Mallomonas sp.	4,236	0	2,118	1	0	1
			Ochromonas sp.	461,679	389,995	425,837	33	29	31
		Cryptophyceae	*Cryptomonas* sp. 2	281	0	141	1	0	0
			Plagioselmis nannoplanctica	25,414	30,553	27,983	2	2	2

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
10-Aug-13	Ac-1	Cyanobacteria	*Anabaena circinalis*	1,662	1,293	1,478	0	0	0
			Anabaena sp.	11,112	4,914	8,013	1	0	1
		Euglenophyceae	*Trachelomonas* sp.	2,118	0	1,059	1	0	0
		Dinophyceae	*Gymnodinium* sp.	2,118	0	1,059	18	0	9
			Peridinium inconspicuum	6,353	1,797	4,075	7	3	5
			Peridinium umbonatum	141	388	264	1	2	1
11-Aug-13	Ac-4	Bacillariophyceae	*Asterionella formosa*	1,471	1,810	1,641	1	1	1
			Aulacoseira sp.	97	3,338	1,717	0	1	0
			Cyclotella spp.	3,536	3,338	3,437	2	1	1
			Fragilaria spp.	134	129	132	0	0	0
			Tabellaria sp.	1,763	259	1,011	8	1	4
		Chlorophyceae	*Chlorella ellipsoidea*	1,768	3,338	2,553	0	0	0
			Chlorotetraedron incus	3,536	0	1,768	0	0	0
			Cosmarium sp.	0	1,669	834	0	3	1
			Dictyosphaerium sp.	28,290	4,138	16,214	1	0	1
			Elakatothrix gelatinosa	0	517	259	0	0	0
			Lagerheimia genevensis	1,768	1,669	1,718	0	0	0
			Monoraphidium arcuatum	0	1,669	834	0	0	0
			Monoraphidium tortile	3,536	5,007	4,271	0	0	0
			Mougeotia sp.	0	24	12	0	0	0
			Oocystis sp.	1,768	0	884	0	0	0
			Roya sp.	1,337	1,035	1,186	0	0	0
			Sphaerellopsis montana	0	1,669	834	0	6	3
			Spondylosium planum	0	564	282	0	0	0
			Staurastrum sp.	0	259	129	0	42	21
			Staurodesmus triangularis	1,768	0	884	71	0	36
			Teilingia granulata	632	0	316	0	0	0
		Chrysophyceae	*Dinobryon bavaricum*	85	47	66	0	0	0
			Dinobryon borgei	1,768	1,669	1,718	1	1	1
			Dinobryon divergens	1,605	1,446	1,525	2	2	2
			Dinobryon sp.	53,044	65,085	59,065	2	3	3
			Ochromonas sp.	387,224	360,469	373,846	47	30	39

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Aug-13	Ac-4	Cryptophyceae	*Cryptomonas* sp. 4	1,768	1,669	1,718	2	2	2
			Plagioselmis nannoplanctica	19,450	15,020	17,235	1	1	1
		Cyanobacteria	*Anabaena circinalis*	1,337	0	669	0	0	0
			Anabaena sp.	16,585	5,043	10,814	2	0	1
			Aphanocapsa elachista	176,815	133,507	155,161	0	0	0
			Leptolyngbya sp.	0	905	453	0	0	0
		Euglenophyceae	*Trachelomonas* sp.	0	3,338	1,669	0	4	2
		Dinophyceae	*Amphidinium* sp.	5,304	0	2,652	3	0	1
			Gymnodinium sp.	5,304	1,669	3,487	62	17	40
			Peridinium inconspicuum	1,768	5,007	3,387	1	2	1
			Peridinium umbonatum	134	388	261	1	2	1
11-Aug-13	Ac-7	Bacillariophyceae	*Asterionella formosa*	1,151	1,512	1,331	1	1	1
			Aulacoseira sp.	3,248	0	1,624	1	0	1
			Cyclotella spp.	3,248	3,501	3,375	1	1	1
			Encyonema spp.	1,624	0	812	1	0	1
			Fragilaria spp.	144	116	130	0	0	0
			Tabellaria sp.	1,543	233	888	7	1	4
		Chlorophyceae	*Chlorella ellipsoidea*	4,872	1,751	3,311	1	0	0
			Chlorotetraedron incus	1,624	0	812	0	0	0
			Cosmarium sp.	0	116	58	0	1	0
			Crucigenia tetrapedia	6,496	0	3,248	1	0	1
			Elakatothrix gelatinosa	0	3,501	1,751	0	22	11
			Lagerheimia genevensis	0	3,501	1,751	0	0	0
			Monoraphidium komarkovae	144	8,754	4,449	0	1	0
			Monoraphidium tortile	1,624	5,252	3,438	0	0	0
			Oocystis sp.	3,248	0	1,624	1	0	0
			Roya sp.	288	233	260	0	0	0
			Spondylosium planum	1,007	698	852	1	0	1
			Staurastrum sp.	288	0	144	28	0	14
			Staurodesmus triangularis	144	0	72	28	0	14
			Teilingia excavata	0	465	233	0	0	0
			Teilingia granulata	0	222	111	0	0	0

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Aug-13	Ac-7	Chrysophyceae	*Chrysocapsa planktonica*	0	14,006	7,003	0	2,853	1,426
			Dinobryon bavaricum	1,624	1,751	1,687	3	2	2
			Dinobryon bavaricum var. vanhoeffenii	8,120	0	4,060	9	0	4
			Dinobryon borgei	3,248	1,751	2,499	1	1	1
			Dinobryon divergens	144	1,607	875	0	2	1
			Dinobryon sp.	35,729	63,026	49,378	1	3	2
			Ochromonas sp.	362,161	390,412	376,287	50	55	52
		Cryptophyceae	*Cryptomonas* sp. 4	0	1,751	875	0	2	1
			Plagioselmis nannoplanctica	25,985	12,255	19,120	1	1	1
		Cyanobacteria	*Anabaena* sp.	4,458	6,744	5,601	0	1	1
		Euglenophyceae	*Trachelomonas* sp.	1,624	1,751	1,687	3	4	4
		Dinophyceae	*Amphidinium* sp.	0	3,501	1,751	0	1	0
			Peridinium inconspicuum	3,248	3,501	3,375	1	1	1
			Peridinium umbonatum	144	116	130	1	1	1
10-Aug-13	Ad-1	Bacillariophyceae	*Asterionella formosa*	1,138	569	853	1	0	0
			Cyclotella spp.	5,257	3,504	4,381	2	1	1
			Fragilaria spp.	142	142	142	0	0	0
			Nitzschia spp.	0	142	71	0	0	0
			Tabellaria sp.	3,272	2,534	2,903	15	13	14
		Chlorophyceae	*Chlorella ellipsoidea*	1,752	3,504	2,628	0	0	0
			Cosmarium sp.	0	142	71	0	1	0
			Crucigenia tetrapedia	0	7,009	3,504	0	2	1
			Monoraphidium komarkovae	284	3,504	1,894	0	0	0
			Monoraphidium tortile	3,504	1,752	2,628	0	0	0
			Mougeotia sp.	91	0	45	1	0	1
			Oocystis sp.	1,752	5,257	3,504	0	1	1
			Roya sp.	284	284	284	0	0	0
			Spondylosium planum	582	0	291	0	0	0

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
10-Aug-13	Ad-1	Chrysophyceae	*Chrysocapsa planktonica*	0	14,018	7,009	0	2	1
			Dinobryon bavaricum	142	5,257	2,699	0	6	3
			Dinobryon borgei	3,504	0	1,752	2	0	1
			Dinobryon divergens	1,267	427	847	1	0	1
			Dinobryon sp.	31,540	49,062	40,301	2	2	2
			Ochromonas sp.	404,761	392,495	398,628	61	49	55
		Cryptophyceae	*Cryptomonas* sp. 2	142	0	71	0	0	0
			Cryptomonas sp. 4	1,752	1,752	1,752	2	1	1
			Plagioselmis nannoplanctica	29,788	15,770	22,779	2	1	2
		Cyanobacteria	*Anabaena circinalis*	0	4,784	2,392	0	1	0
			Anabaena sp.	3,983	12,944	8,463	0	1	1
			Aphanocapsa elachista	3,879	350,442	177,161	0	1	0
			Leptolyngbya sp.	1,138	0	569	0	0	0
		Euglenophyceae	*Trachelomonas* sp.	3,504	0	1,752	12	0	6
		Dinophyceae	*Gymnodinium* sp.	142	1,752	947	1	24	13
			Peridinium inconspicuum	5,257	5,257	5,257	2	4	3
			Peridinium sp.	0	1,752	876	0	9	5
			Peridinium umbonatum	15,770	7,009	11,389	47	37	42
9-Aug-13	Ae-1	Bacillariophyceae	*Achnanthidium* spp.	236,839	0	118,420	36	0	18
			Asterionella formosa	2,924	259	1,591	2	0	1
			Cyclotella spp.	5,205	0	2,603	1	0	1
			Cymbella sp.	5,205	0	2,603	5	0	2
			Diatoma moniliformis	10,411	0	5,205	11	0	5
			Fragilaria spp.	139	0	70	0	0	0
			Gomphonema spp.	91,092	0	45,546	70	0	35
			Nitzschia spp.	0	142	71	0	0	0
			Tabellaria sp.	2,215	1,836	2,026	11	8	9

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
9-Aug-13	Ae-1	Chlorophyceae	*Chlorella ellipsoidea*	2,603	0	1,301	0	0	0
			Chlorotetraedron incus	2,603	2,965	2,784	0	0	0
			Crucigenia tetrapedia	0	2,965	1,483	0	1	0
			Eudorina elegans	0	47,444	23,722	0	814	407
			Kirchneriella lunaris	0	53,375	26,688	0	1	0
			Lagerheimia genevensis	0	2,965	1,483	0	0	0
			Monoraphidium arcuatum	5,205	0	2,603	0	0	0
			Monoraphidium irregulare	2,603	8,896	5,749	0	0	0
			Monoraphidium komarkovae	139	5,931	3,035	0	0	0
			Monoraphidium tortile	2,603	2,965	2,784	0	0	0
			Roya sp.	1,393	853	1,123	0	0	0
			Spondylosium planum	836	556	696	1	0	1
			Staurodesmus triangularis	0	284	142	0	84	42
			Staurastrum sp.	139	0	70	3	0	1
		Chrysophyceae	*Dinobryon bavaricum*	0	2,965	1,483	0	5	2
			Dinobryon borgei	7,808	2,965	5,387	3	2	2
			Dinobryon divergens	139	168	154	0	0	0
			Dinobryon sp.	44,245	80,063	62,154	2	4	3
			Kephyrion sp.	0	5,931	2,965	0	9	4
			Mallomonas insignis	0	2,965	1,483	0	1	1
			Mallomonas sp.	0	5,931	2,965	0	4	2
			Ochromonas sp.	340,944	690,910	515,927	55	107	81
			Synuropsis sp.	0	2,965	1,483	0	2	1
		Cryptophyceae	*Cryptomonas* sp. 4	0	142	71	0	0	0
			Plagioselmis nannoplanctica	26,026	32,618	29,322	2	3	3
		Cyanobacteria	*Anabaena circinalis*	9,494	4,526	7,010	1	1	1
			Anabaena sp.	18,660	12,284	15,472	2	1	1
			Aphanocapsa elachista	208,210	0	104,105	0	0	0
			Leptolyngbya sp.	836	0	418	0	0	0
		Dinophyceae	*Amphidinium* sp.	0	5,931	2,965	0	2	1
			Gymnodinium sp.	0	5,931	2,965	0	44	22
			Peridinium umbonatum	139	284	212	1	1	1

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Aa-1	Bacillariophyceae	*Achnanthidium* spp.	3,531	4,586	4,058	0	0	0
			Amphora sp.	0	135	68	0	2	1
			Asterionella formosa	44,132	8,664	26,398	28	9	18
			Aulacoseira sp.	3,531	0	1,765	2	0	1
			Encyonema spp.	1,765	0	883	1	0	0
			Eunotia sp.	144	0	72	1	0	0
			Navicula spp.	1,765	0	883	4	0	2
			Nitzschia spp.	1,765	12	889	0	1	1
			Tabellaria sp.	510	591	550	3	2	3
		Chlorophyceae	*Chlorella ellipsoidea*	5,296	7,644	6,470	1	1	1
			Cosmarium sp.	144	0	72	1	0	0
			Crucigenia tetrapedia	21,183	0	10,592	7	0	4
			Elakatothrix gelatinosa	3,531	0	1,765	1	0	0
			Euastrum pulchellum	144	135	140	1	0	1
			Microspora sp.	52	62	57	0	0	0
			Monoraphidium komarkovae	5,296	135	2,716	0	0	0
			Monoraphidium tortile	5,296	0	2,648	0	0	0
			Oedogonium sp.	13	0	7	0	0	0
			Oocystis sp.	0	1,529	764	0	0	0
			Spondylosium sp.	0	775	388	0	1	1
			Tetraedron triangulare	144	0	72	0	0	0
		Chrysophyceae	*Dinobryon borgei*	1,765	1,529	1,647	1	1	1
			Dinobryon divergens	21,434	3,421	12,428	26	5	15
			Dinobryon sp.	8,826	7,644	8,235	0	0	0
			Ochromonas sp.	331,869	317,972	324,920	37	35	36
			Synuropsis sp.	0	3,057	1,529	0	1	0
		Cryptophyceae	*Cryptomonas* sp.	431	406	419	2	1	1
			Cryptomonas sp. 2	3,531	135	1,833	8	1	5
			Cryptomonas sp. 4	1,765	4,586	3,176	1	3	2
			Plagioselmis nannoplanctica	82,967	74,907	78,937	5	5	5

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Aa-1	Cyanobacteria	*Anabaena circinalis*	1,438	1,477	1,458	1	0	1
			Anabaena sp.	876	1,489	1,183	0	1	1
			Leptolyngbya sp.	2,406	1,600	2,003	0	0	0
			Phormidium sp.	562	7,644	4,103	0	2	1
			Pseudanabaena catenata	0	320	160	0	0	0
		Dinophyceae	*Gymnodinium* sp.	0	7,644	3,822	0	26	13
			Peridinium inconspicuum	1,765	0	883	1	0	1
			Peridinium sp.	5,178	5,415	5,296	39	33	36
			Peridinium umbonatum	15,887	10,701	13,294	58	52	55
			Peridinium willei	144	135	140	11	11	11
11-Sep-13	Ab-1	Bacillariophyceae	*Achnanthidium* spp.	4,349	7,082	5,716	0	1	0
			Amphora sp.	131	0	65	1	0	0
			Asterionella formosa	56,539	70,819	63,679	37	42	39
			Aulacoseira sp.	119	0	60	0	0	0
			Cyclotella spp.	4,349	0	2,175	1	0	1
			Encyonema spp.	0	2,361	1,180	0	1	1
			Fragilaria spp.	131	0	65	0	0	0
			Navicula spp.	2,175	138	1,156	1	0	1
			Nitzschia spp.	2,175	13	1,094	0	0	0
			Synedra sp.	0	25	13	0	0	0
			Tabellaria sp.	131	1,869	1,000	0	7	3
			Unknown *pennales* sp.	2,175	0	1,087	1	0	0

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Ab-1	Chlorophyceae	*Botryococcus protuberans*	0	2,760	1,380	0	0	0
			Chlorella ellipsoidea	6,524	0	3,262	1	0	0
			Chlorella sp.	0	2,361	1,180	0	0	0
			Cosmarium sp.	0	138	69	0	1	0
			Hyalotheca dissiliens	0	213	107	0	3	1
			Microspora sp.	24	75	50	0	0	0
			Monoraphidium komarkovae	0	4,721	2,361	0	0	0
			Monoraphidium tortile	4,349	2,361	3,355	0	0	0
			Mougeotia sp.	0	13	6	0	0	0
			Oocystis sp.	2,175	0	1,087	0	0	0
			Roya sp.	4,349	0	2,175	1	0	0
			Sphaerocystis planktonica	1,048	0	524	0	0	0
			Spondylosium sp.	298	552	425	0	1	0
			Staurastrum sp.	131	0	65	14	0	7
		Chrysophyceae	*Dinobryon bavaricum*	36	25,994	13,015	0	36	18
			Dinobryon divergens	31,319	0	15,659	45	0	22
			Dinobryon sp.	23,920	16,525	20,222	1	1	1
			Mallomonas insignis	4,349	0	2,175	3	0	1
			Ochromonas sp.	471,885	535,866	503,876	58	8	33
			Pseudokephyrion spp.	0	2,361	1,180	0	0	0
			Synuropsis sp.	10,873	2,361	6,617	3	1	2
		Cryptophyceae	*Cryptomonas* sp.	0	414	207	0	1	1
			Cryptomonas sp. 2	2,175	138	1,156	3	0	2
			Cryptomonas sp. 3	131	0	65	1	0	0
			Cryptomonas sp. 4	4,349	0	2,175	3	0	1
			Plagioselmis nannoplanctica	23,920	40,131	32,026	2	3	3
			Rhodomonas sp.	0	2,361	1,180	0	3	2
		Cyanobacteria	*Anabaena circinalis*	0	2,509	1,254	0	1	0
			Anabaena sp.	2,071	2,295	2,183	0	1	1
			Anabaena sp. 2	12	0	6	0	0	0
			Calothrix sp.	0	2,835	1,417	0	0	0
			Leptolyngbya sp.	1,750	3,913	2,832	0	0	0
			Phormidium sp.	1,000	3,412	2,206	1	1	1

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Ab-1	Euglenophyceae	*Euglena* sp.	0	276	138	0	5	2
			Trachelomonas sp.	0	138	69	0	1	0
		Dinophyceae	*Gymnodinium* sp.	6,524	690	3,607	16	4	10
			Peridinium sp.	15,714	0	7,857	116	0	58
			Peridinium umbonatum	17,397	2,760	10,078	84	10	47
11-Sep-13	Ac-1	Bacillariophyceae	*Achnanthidium* spp.	10,094	4,979	7,537	1	0	0
			Asterionella formosa	65,612	79,668	72,640	36	43	39
			Cyclotella spp.	1,073	2,490	1,781	2	1	1
			Fragilaria spp.	536	137	337	0	0	0
			Nitzschia spp.	134	4,979	2,557	0	1	1
			Synedra sp.	0	12	6	0	0	0
			Tabellaria sp.	9,148	13,649	11,398	32	39	35
		Chlorophyceae	*Botryococcus protuberans*	0	10,526	5,263	0	1	0
			Chlorella ellipsoidea	0	2,490	1,245	0	0	0
			Microspora sp.	0	12	6	0	0	0
			Monoraphidium komarkovae	2,524	137	1,330	0	0	0
			Monoraphidium tortile	2,524	137	1,330	0	0	0
			Mougeotia sp.	244	0	122	1	0	0
			Roya sp.	2,524	273	1,398	0	0	0
			Spondylosium planum	98	9,959	5,028	0	6	3
			Staurodesmus sp.	134	273	204	36	3	19
			Staurodesmus triangularis	0	137	68	0	11	5
			Tetraedron muticum	0	2,490	1,245	0	0	0
			Unknown Chlorophyte sp. (filament)	73	0	37	0	0	0
		Chrysophyceae	*Bitrichia chodatii*	0	2,490	1,245	0	2	1
			Dinobryon borgei	0	2,490	1,245	0	1	0
			Dinobryon divergens	40,276	14,909	27,593	48	13	31
			Dinobryon sp.	22,712	24,896	23,804	1	1	1
			Mallomonas insignis	7,571	7,469	7,520	4	2	3
			Ochromonas sp.	587,980	540,251	564,115	65	74	70
			Synuropsis sp.	2,524	4,979	3,751	1	2	1

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Ac-1	Cryptophyceae	*Cryptomonas* sp. 2	2,524	4,979	3,751	8	4	6
			Cryptomonas sp. 4	0	2,490	1,245	0	2	1
			Plagioselmis nannoplanctica	22,712	37,345	30,028	1	3	2
		Cyanobacteria	*Anabaena circinalis*	0	2,423	1,212	0	1	1
			Anabaena sp.	12,618	2,374	7,496	2	1	1
			Anabaena sp. 2	5,339	1,529	3,434	2	1	1
			Anabaena sp. 3	35,329	0	17,665	4	0	2
			Chroococcus sp.	20,188	0	10,094	3	0	1
			Leptolyngbya sp.	32,806	29,876	31,341	1	1	1
			Phormidium sp.	0	1,702	851	0	0	0
			Nostoc sp.	488	0	244	2	0	1
		Euglenophyceae	*Phacus* sp.	0	137	68	0	0	0
		Dinophyceae	*Gymnodinium* sp.	2,524	0	1,262	29	0	14
			Peridinium inconspicuum	0	4,979	2,490	0	8	4
			Peridinium sp.	1,609	18,645	10,127	10	114	62
			Peridinium umbonatum	17,665	7,469	12,567	94	40	67
11-Sep-13	Ac-4	Bacillariophyceae	*Achnanthidium* spp.	1,754	1,815	1,784	0	0	0
			Asterionella formosa	50,868	76,226	63,547	37	59	48
			Cyclotella spp.	3,508	3,630	3,569	1	1	1
			Encyonema spp.	1,754	0	877	0	0	0
			Eunotia sp.	25	0	12	0	0	0
			Nitzschia sp.	12	132	72	0	3	1
			Nitzschia spp.	1,754	3,630	2,692	2	1	1
			Pinnularia sp.	12	0	6	1	0	1
			Pleurosigma sp.	12	0	6	0	0	0
			Tabellaria sp.	18,545	2,906	10,726	39	12	26

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Ac-4	Chlorophyceae	*Botryococcus braunii*	0	6,654	3,327	0	0	0
			Botryococcus protuberans	4,238	2,604	3,421	0	0	0
			Chlorella ellipsoidea	5,262	3,630	4,446	1	0	1
			Crucigenia tetrapedia	7,016	9,074	8,045	2	3	2
			Crucigeniella rectangularis	1,094	0	547	1	0	0
			Dictyosphaerium sp.	0	2,604	1,302	0	0	0
			Elakatothrix gelatinosa	0	3,630	1,815	0	1	0
			Euastrum pulchellum	0	145	72	0	1	0
			Euastrum verrucosum	0	13	7	0	1	1
			Gonatozygon kinahani	12	0	6	0	0	0
			Microspora pachyderma	0	658	329	0	0	0
			Microspora sp.	0	13	7	0	0	0
			Monoraphidium komarkovae	5,262	3,630	4,446	0	0	0
			Monoraphidium tortile	5,262	3,630	4,446	0	0	0
			Oedogonium sp.	174	263	218	1	0	0
			Roya sp.	1,754	7,260	4,507	0	1	1
			Sphaerocystis planktonica	1,094	0	547	0	0	0
			Spondylosium sp.	0	145	72	0	0	0
			Staurastrum sp.	0	434	217	0	2	1
			Staurodesmus triangularis	0	145	72	0	14	7
		Chrysophyceae	*Dinobryon bavaricum*	0	79	39	0	0	0
			Dinobryon borgei	1,754	1,815	1,784	1	0	0
			Dinobryon divergens	29,321	24,427	26,874	33	48	41
			Dinobryon sp.	43,852	25,409	34,630	3	1	2
			Mallomonas sp.	0	434	217	0	1	0
			Mallomonas insignis	137	0	68	1	0	1
			Ochromonas sp.	357,828	348,460	353,144	32	27	30
			Synuropsis sp.	1,754	5,445	3,599	0	2	1

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Ac-4	Cryptophyceae	*Cryptomonas* sp.	273	0	137	1	0	1
			Cryptomonas sp. 2	3,508	9,074	6,291	9	18	14
			Cryptomonas sp. 3	0	145	72	0	1	0
			Cryptomonas sp. 4	1,754	0	877	1	0	1
			Plagioselmis nannoplanctica	22,803	32,668	27,735	1	2	2
			Rhodomonas sp.	0	1,815	907	0	1	1
		Cyanobacteria	*Anabaena circinalis*	0	2,630	1,315	0	1	0
			Anabaena sp.	3,591	2,617	3,104	0	0	0
			Anabaena sp. 2	298	1,315	807	0	1	0
			Aphanocapsa elachista	122,784	0	61,392	0	0	0
			Leptolyngbya sp.	596	2,735	1,666	0	0	0
			Phormidium sp.	385	0	193	0	0	0
		Dinophyceae	*Gymnodinium* sp.	1,754	0	877	8	0	4
			Gyrodinium helveticum	137	434	285	5	13	9
			Peridinium inconspicuum	0	1,815	907	0	5	3
			Peridinium sp.	8,749	9,547	9,148	74	66	70
			Peridinium umbonatum	10,524	19,964	15,244	52	109	80
11-Sep-13	Ac-7	Bacillariophyceae	*Achnanthidium* spp.	2,756	2,048	2,402	0	0	0
			Asterionella formosa	41,346	73,736	57,541	32	55	44
			Aulacoseira sp.	174	0	87	0	0	0
			Cyclotella spp.	137	4,096	2,117	2	1	1
			Diatoma moniliformis	0	4,096	2,048	0	1	1
			Eunotia sp.	137	134	135	4	2	3
			Fragilaria spp.	137	537	337	0	0	0
			Navicula sp.	0	24	12	0	1	0
			Navicula spp.	0	6,145	3,072	0	2	1
			Nitzschia spp.	2,756	268	1,512	0	0	0
			Pleurosigma sp.	12	0	6	0	0	0
			Synedra sp.	0	12	6	0	0	0
			Tabellaria sp.	2,647	671	1,659	13	1	7

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Ac-7	Chlorophyceae	*Botryococcus protuberans*	4,648	6,980	5,814	0	1	0
			Chlorella ellipsoidea	2,756	0	1,378	0	0	0
			Cosmarium sp.	1,378	0	689	9	0	4
			Crucigenia tetrapedia	0	8,193	4,096	0	2	1
			Elakatothrix gelatinosa	0	8,193	4,096	0	1	1
			Microspora sp.	12	537	275	0	4	2
			Monoraphidium komarkovae	2,756	134	1,445	0	0	0
			Monoraphidium tortile	2,756	4,096	3,426	0	0	0
			Oedogonium sp.	249	24	136	1	0	0
			Pediastrum tetras	0	16,386	8,193	0	3	2
			Roya sp.	2,756	2,048	2,402	0	0	0
			Sphaerocystis planktonica	0	7,248	3,624	0	2	1
			Spondylosium sp.	99	0	50	0	0	0
			Staurodesmus triangularis	0	134	67	0	23	12
		Chrysophyceae	*Bitrichia chodatii*	1,378	0	689	0	0	0
			Dinobryon bavaricum	256	0	128	3	0	1
			Dinobryon divergens	3,852	21,970	12,911	5	38	21
			Dinobryon sp.	11,026	10,241	10,633	1	1	1
			Mallomonas sp.	273	4,096	2,185	4	2	3
			Ochromonas sp.	267,369	440,368	353,868	21	47	34
			Synuropsis sp.	5,513	10,241	7,877	2	4	3
		Cryptophyceae	*Cryptomonas* sp. 2	5,513	4,096	4,805	9	2	6
			Cryptomonas sp. 3	273	134	204	3	1	2
			Cryptomonas sp. 4	1,378	0	689	1	0	0
			Plagioselmis nannoplanctica	55,128	24,579	39,853	4	1	3
		Cyanobacteria	*Anabaena circinalis*	0	1,171	586	0	0	0
			Anabaena sp.	4,051	2,257	3,154	2	0	1
			Aphanocapsa elachista	0	245,787	122,893	0	0	0
			Leptolyngbya sp.	23,429	22,530	22,980	1	1	1
			Phormidium sp.	0	1,013	506	0	0	0
			Unknown Cyanophyte sp.	621	0	311	0	0	0

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Ac-7	Euglenophyceae	*Trachelomonas* sp.	137	2,048	1,092	1	2	2
		Dinophyceae	*Ceratium hirundinella*	12	0	6	1	0	0
			Gymnodinium sp.	4,135	6,145	5,140	15	23	19
			Peridinium sp.	3,007	3,893	3,450	22	27	24
			Peridinium umbonatum	5,513	18,434	11,973	19	69	44
			Peridinium willei	0	134	67	0	9	4
7-Sep-13	Ad-1	Bacillariophyceae	*Achnanthidium* spp.	1,818	2,244	2,031	0	0	0
			Asterionella formosa	9,946	62,826	36,386	12	39	25
			Cyclotella spp.	0	4,488	2,244	0	2	1
			Cymbella sp.	145	147	146	0	0	0
			Fragilaria sp.	26	0	13	0	0	0
			Gomphoneis sp.	145	0	72	0	0	0
			Navicula sp.	145	0	72	1	0	0
			Nitzschia sp.	0	147	74	0	0	0
			Nitzschia spp.	0	4,488	2,244	0	1	1
			Synedra sp.	290	13	152	0	0	0
			Tabellaria sp.	2,595	10,120	6,357	14	37	26

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
7-Sep-13	Ad-1	Chlorophyceae	*Botryococcus braunii*	4,347	0	2,174	0	0	0
			Chlamydomonas sp.	0	147	74	0	1	1
			Chlorella ellipsoidea	5,454	4,488	4,971	0	0	0
			Cosmarium sp.	580	147	363	2	0	1
			Crucigenia tetrapedia	14,544	0	7,272	3	0	2
			Dictyosphaerium ehrenbergianum	0	13,528	6,764	0	3	1
			Elakatothrix gelatinosa	1,818	0	909	0	0	0
			Euastrum elegans	145	0	72	1	0	1
			Microspora sp.	26	174	100	0	0	0
			Monoraphidium komarkovae	1,818	147	983	0	0	0
			Monoraphidium tortile	3,636	13,463	8,549	0	0	0
			Mougeotia sp.	0	134	67	0	3	2
			Oedogonium sp.	0	40,388	20,194	0	36	18
			Oocystis sp.	580	4,488	2,534	0	1	0
			Roya sp.	1,818	0	909	0	0	0
			Spondylosium sp.	250	227	239	0	0	0
			Staurastrum sp.	580	147	363	17	3	10
			Staurodesmus sp.	0	294	147	0	2	1
		Chrysophyceae	*Dinobryon bavaricum*	53	2,244	1,148	0	4	2
			Dinobryon borgei	1,818	2,244	2,031	1	1	1
			Dinobryon divergens	58,388	50,321	54,355	116	103	110
			Dinobryon sp.	16,362	22,438	19,400	1	1	1
			Mallomonas insignis	0	588	294	0	1	0
			Ochromonas sp.	407,243	484,658	445,950	43	57	50
			Synuropsis sp.	1,818	6,731	4,275	1	2	1
		Cryptophyceae	*Chroomonas* sp.	2,029	588	1,308	2	1	1
			Cryptomonas sp.	2,753	3,235	2,994	6	7	6
			Cryptomonas sp. 2	3,636	4,488	4,062	6	17	11
			Cryptomonas sp. 4	1,818	6,731	4,275	1	6	4
			Plagioselmis nannoplanctica	52,723	40,388	46,556	4	3	3
			Rhodomonas sp.	290	294	292	0	0	0

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
7-Sep-13	Ad-1	Cyanobacteria	*Anabaena circinalis*	2,635	0	1,317	0	0	0
			Anabaena sp.	2,582	4,077	3,329	0	1	0
			Anabaena sp. 2	0	374	187	0	0	0
			Leptolyngbya sp.	12,726	6,731	9,729	0	0	0
			Phormidium sp.	1,673	0	836	0	0	0
			Pseudanabaena catenata	0	401	201	0	0	0
		Euglenophyceae	*Euglena* sp.	869	294	582	9	3	6
			Phacus sp.	435	735	585	3	2	2
		Dinophyceae	*Gymnodinium* sp.	3,333	2,647	2,990	34	24	29
			Peridinium inconspicuum	0	2,244	1,122	0	3	1
			Peridinium sp.	8,984	7,465	8,225	44	32	38
			Peridinium umbonatum	0	6,731	3,366	0	34	17
5-Sep-13	Ae-1	Bacillariophyceae	*Achnanthidium* spp.	7,656	0	3,828	1	0	0
			Asterionella formosa	56,141	70,596	63,369	31	34	33
			Aulacoseira sp.	298	289	294	1	1	1
			Cyclotella sp.	149	2,206	1,178	0	1	1
			Cyclotella spp.	7,656	0	3,828	2	0	1
			Cymbella sp.	298	0	149	0	0	0
			Eunotia sp.	0	13	7	0	0	0
			Fragilaria sp.	149	0	75	0	0	0
			Gomphoneis sp.	149	0	75	0	0	0
			Navicula sp.	149	289	219	0	0	0
			Navicula spp.	2,552	0	1,276	1	0	1
			Nitzschia spp.	2,552	2,206	2,379	0	1	1
			Tabellaria sp.	4,122	2,011	3,066	9	9	9

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
5-Sep-13	Ae-1	Chlorophyceae	*Ankistrodesmus falcatus*	0	578	289	0	1	1
			Botryococcus braunii	0	1,879	940	0	2	1
			Chlorella ellipsoidea	10,207	0	5,104	1	0	1
			Cosmarium sp.	447	145	296	1	1	1
			Crucigenia tetrapedia	20,415	4,412	12,414	4	2	3
			Crucigeniella rectangularis	2,386	0	1,193	1	0	1
			Dictyosphaerium sp.	0	2,602	1,301	0	1	0
			Elakatothrix gelatinosa	0	145	72	0	0	0
			Gonatozygon kinahani	27	0	14	0	0	0
			Gonatozygon monotaenium	0	13	7	0	0	0
			Monoraphidium komarkovae	2,552	4,412	3,482	0	0	0
			Monoraphidium tortile	5,104	0	2,552	0	0	0
			Mougeotia sp.	27	197	112	1	1	1
			Roya sp.	81	6,618	3,350	0	1	1
			Spondylosium spp.	14	0	7	0	0	0
			Staurastrum sp.	149	0	75	0	0	0
			Staurodesmus sp.	149	145	147	2	16	9
		Chrysophyceae	*Bitrichia chodatii*	2,552	0	1,276	0	0	0
			Dinobryon bavaricum	0	105	53	0	0	0
			Dinobryon divergens	25,660	34,306	29,983	38	48	43
			Dinobryon sp.	30,622	28,680	29,651	2	3	2
			Mallomonas insignis	597	434	515	0	0	0
			Ochromonas sp.	556,307	458,877	507,592	71	59	65
			Synuropsis sp.	0	2,206	1,103	0	1	0
		Cryptophyceae	*Chroomonas* sp.	149	1,301	725	0	2	1
			Cryptomonas sp.	1,790	0	895	4	0	2
			Cryptomonas sp. 2	7,656	6,618	7,137	23	13	18
			Cryptomonas sp. 4	2,552	2,206	2,379	4	1	3
			Plagioselmis nannoplanctica	45,934	61,772	53,853	3	4	4

Table B-3 Phytoplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
5-Sep-13	Ae-1	Cyanobacteria	*Anabaena circinalis*	14	1,840	927	0	0	0
			Anabaena sp.	3,431	8,622	6,026	0	2	1
			Anabaena sp. 2	678	775	727	0	0	0
			Chroococcus sp.	0	8,825	4,412	0	0	0
			Leptolyngbya sp.	5,790	4,587	5,188	0	0	0
			Phormidium sp.	990	1,183	1,086	0	0	0
			Pseudanabaena catenata	0	158	79	0	0	0
		Euglenophyceae	*Euglena* sp.	0	434	217	0	1	1
			Lepocinclis fusiformis	149	0	75	1	0	0
			Phacus sp.	149	289	219	1	3	2
			Trachelomonas sp.	0	145	72	0	2	1
		Dinophyceae	*Gymnodinium* sp.	2,536	1,301	1,918	24	12	18
			Peridinium inconspicuum	5,104	2,206	3,655	15	4	10
			Peridinium sp.	5,498	2,747	4,123	22	11	16
			Peridinium umbonatum	7,656	6,618	7,137	30	28	29
		Xanthophyceae	*Ophiocytium cochleare*	14	0	7	0	0	0

Notes: Samples were analyzed by EcoAnalysts, Inc. Values are rounded to the nearest whole number. Numbers next to genus names (e.g., *Cryptomonas* sp. 2) are unique species identifiers.

cells/L = number of cells per litre; mg/m^3 = milligrams per cubic metre; Late Spring = July; Summer = August; Fall = September; sp. = species; spp. = multiple species.

Table B-4 Phytoplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
22-Jul-13	Af-1	Bacillariophyceae	*Asterionella formosa*	204	388	296	0.29	0.51	0.40
			Cyclotella spp.	0	2,838	1,419	0	3.50	1.75
			Fragilaria spp.	72	13	42	0.07	0.02	0.05
			Tabellaria sp.	96	504	300	0.57	2.38	1.48
		Chlorophyceae	*Ankistrodesmus falcatus*	1,538	711	1,125	0.08	0.03	0.05
			Botryococcus protuberans	0	4,409	2,205	0	0.28	0.14
			Chlorotetraedron incus	0	34,061	17,030	0	2.55	1.28
			Cosmarium sp.	132	0	66	2.12	0	1.06
			Crucigenia tetrapedia	36,909	39,737	38,323	81.09	134.11	107.60
			Dictyosphaerium sp.	36,909	22,707	29,808	1.78	0.89	1.33
			Gonatozygon monotaenium	12	13	12	0.48	1.43	0.96
			Gonium pectorale	0	2,276	1,138	0	0.97	0.48
			Monoraphidium arcuatum	0	45,414	22,707	0	1.33	0.67
			Monoraphidium irregulare	21,530	8,515	15,023	0.36	0.14	0.25
			Monoraphidium komarkovae	2,774	2,134	2,454	0.21	0.15	0.18
			Monoraphidium tortile	132	142	137	0.00	0.02	0.01
			Roya sp.	1,538	14,192	7,865	1.03	7.52	4.28
			Sphaerocystis sp.	0	48,252	24,126	0	3.16	1.58
			Staurodesmus sp.	396	142	269	51.29	13.08	32.18
			Teilingia granulata	228	879	554	0.43	1.73	1.08
			Tetraedron triangulare	24,606	0	12,303	4.82	0	2.41
			Xanthidium sp.	1,538	0	769	0.52	0	0.26
		Chrysophyceae	*Dinobryon bavaricum*	492	194	343	1.89	0.59	1.24
			Dinobryon borgei	0	142	71	0	1.30	0.65
			Dinobryon divergens	3,903	3,634	3,769	17.11	17.10	17.10
			Mallomonas insignis	0	2,838	1,419	0	2.19	1.09
			Mallomonas sp.	0	5,677	2,838	0	16.74	8.37
			Ochromonas sp.	166,090	323,575	244,833	4.98	8.08	6.53
			Synuropsis sp.	3,567	13,228	8,398	1.89	6.98	4.43

Table B-4 Phytoplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
22-Jul-13	Af-1	Cryptophyceae	*Cryptomonas* sp.	1,585	427	1,006	4.19	1.18	2.68
			Cryptomonas sp. 3	132	427	279	1.57	3.27	2.42
			Rhodomonas sp.	3,076	0	1,538	4.63	0	2.31
		Cyanobacteria	*Anabaena circinalis*	6,582	29,651	18,116	0.87	5.60	3.23
			Anabaena sp.	274,720	347,522	311,121	34.98	37.83	36.40
			Leptolyngbya sp.	19,992	0	9,996	0.05	0	0.02
			Woronichinia naegeliana	0	5,690	2,845	0	0.08	0.04
		Dinophyceae	*Peridinium* sp.	10,702	8,534	9,618	57.82	40.10	48.96
			Peridinium umbonatum	7,689	2,838	5,264	19.58	12.34	15.96
			Peridinium willei	264	284	274	22.04	18.43	20.23
26-Jul-13	Af-7	Bacillariophyceae	*Achnanthidium* spp.	0	1,668	834	0	0.43	0.22
			Asterionella formosa	69	6,673	3,371	0.06	5.62	2.84
			Cyclotella spp.	151	1,668	910	1.33	1.77	1.55
			Navicula sp.	0	1,668	834	0	0.98	0.49
			Nitzschia spp.	1,404	1,668	1,536	0.45	0.67	0.56
			Surirella sp.	14	0	7	6.66	0	3.33
			Tabellaria sp.	69	1,720	894	0.43	2.77	1.60
		Chlorophyceae	*Ankistrodesmus falcatus*	2,807	1,668	2,238	0.13	0.14	0.13
			Botryococcus braunii	4,673	0	2,336	0.15	0	0.07
			Chlorotetraedron incus	4,211	10,010	7,110	0.32	1.13	0.72
			Cosmarium sp.	0	143	72	0	1.47	0.73
			Crucigenia tetrapedia	28,072	33,367	30,720	6.06	11.44	8.75
			Dictyosphaerium ehrenbergianum	84,216	40,041	62,128	2.54	1.99	2.27
			Gonatozygon monotaenium	0	65	33	0	2.90	1.45
			Microspora pachyderma	1,411	0	706	0.88	0	0.44
			Monoraphidium arcuatum	16,843	1,668	9,256	0.87	0.09	0.48
			Monoraphidium contortum	1,357	0	678	0.05	0	0.03
			Monoraphidium irregulare	15,440	23,357	19,398	0.26	0.73	0.49
			Monoraphidium komarkovae	14,036	143	7,090	1.06	0.01	0.53
			Monoraphidium tortile	0	11,679	5,839	0	0.30	0.15
			Mougeotia sp.	82	0	41	0.94	0	0.47
			Oocystis sp.	301	0	151	1.28	0	0.64

Table B-4 Phytoplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
26-Jul-13	Af-7	Chlorophyceae	*Pediastrum tetras*	1,206	0	603	0.09	0	0.04
			Roya sp.	2,807	10,010	6,409	1.98	9.25	5.61
			Sphaerocystis sp.	0	20,020	10,010	0	8.99	4.49
			Staurastrum sp.	0	13	7	0	0.06	0.03
			Staurodesmus triangularis	0	430	215	0	30.84	15.42
			Teilingia granulata	1,288	6,673	3,981	2.76	10.22	6.49
		Chrysophyceae	*Dinobryon bavaricum*	5,614	352	2,983	18.57	1.00	9.79
			Dinobryon divergens	617	625	621	3.15	2.64	2.90
			Mallomonas sp.	0	1,668	834	0	7.07	3.53
			Ochromonas sp.	189,485	173,510	181,498	31.22	30.07	30.65
			Synuropsis sp.	131,938	4,013	67,976	60.40	1.29	30.84
		Cryptophyceae	*Cryptomonas* sp.	1,959	10,010	5,985	5.75	18.11	11.93
			Cryptomonas sp. 3	4,211	3,727	3,969	34.15	38.69	36.42
		Cyanobacteria	*Anabaena circinalis*	26,322	98,650	62,486	4.22	19.35	11.78
			Anabaena sp.	263,471	563,907	413,689	42.22	51.56	46.89
			Aphanocapsa elachista	56,144	0	28,072	0.06	0	0.03
			Chroococcus dispersus	6,331	0	3,165	0.05	0	0.03
			Leptolyngbya sp.	4,220	1,798	3,009	0.05	0.02	0.03
			Woronichinia naegeliana	0	2,867	1,433	0	0.04	0.02
		Euglenophyceae	*Euglena* sp.	0	1,668	834	0	3.02	1.51
			Phacus sp.	0	143	72	0	0.33	0.16
			Trachelomonas sp.	0	287	143	0	0.90	0.45
		Dinophyceae	*Peridinium* sp.	9,044	4,300	6,672	54.97	31.94	43.46
			Peridinium umbonatum	8,422	0	4,211	19.07	0	9.53
			Peridinium willei	0	860	430	0	44.99	22.49
		Xanthophyceae	*Isthmochloron lobulatum*	1,404	0	702	2.53	0	1.27
			Tetraedriella jovetti	0	1,668	834	0	0.24	0.12
8-Aug-13	Af-1	Bacillariophyceae	*Asterionella formosa*	1,069	1,477	1,273	0.62	0.75	0.69
			Cyclotella spp.	6,174	11,007	8,590	2.42	4.18	3.30
			Fragilaria spp.	137	0	68	0.05	0	0.03
			Tabellaria sp.	547	492	520	2.44	1.94	2.19

Table B-4 Phytoplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
8-Aug-13	Af-1	Chlorophyceae	*Chlorella ellipsoidea*	6,174	3,669	4,922	0.54	0.41	0.48
			Chlorotetraedron incus	6,174	7,338	6,756	0.21	0.25	0.23
			Crucigenia tetrapedia	117,312	29,351	73,331	25.34	7.69	16.52
			Elakatothrix gelatinosa	12,349	0	6,174	22.81	0	11.41
			Eudorina elegans	49,394	0	24,697	698.30	0	349.15
			Monoraphidium arcuatum	12,349	0	6,174	0.30	0	0.15
			Monoraphidium contortum	0	7,338	3,669	0	0.16	0.08
			Monoraphidium irregulare	9,261	3,669	6,465	0.34	0.13	0.23
			Monoraphidium komarkovae	273	3,669	1,971	0.02	0.14	0.08
			Monoraphidium tortile	3,087	135	1,611	0.09	0.00	0.04
			Oocystis sp.	0	7,338	3,669	0	1.52	0.76
			Pandorina morum	0	58,702	29,351	0	8.85	4.43
			Roya sp.	273	135	204	0.04	0.02	0.03
			Spondylosium planum	882	505	693	0.64	0.32	0.48
			Staurastrum sp.	0	13	7	0	0.06	0.03
			Staurodesmus triangularis	0	271	135	0	16.25	8.13
		Chrysophyceae	*Dinobryon bavaricum*	0	37	18	0	0.09	0.05
			Dinobryon divergens	0	382	191	0	0.37	0.19
			Dinobryon sp.	126,573	55,034	90,803	6.27	3.59	4.93
			Mallomonas insignis	3,087	3,669	3,378	1.41	1.51	1.46
			Mallomonas sp.	0	3,669	1,834	0	2.07	1.03
			Ochromonas sp.	623,604	895,212	759,408	81.13	115.25	98.19
		Cryptophyceae	*Cryptomonas* sp. 2	0	135	68	0	0.36	0.18
			Cryptomonas sp. 4	137	3,669	1,903	0.35	3.61	1.98
			Plagioselmis nannoplanctica	40,133	62,371	51,252	1.75	5.84	3.79
		Cyanobacteria	*Anabaena circinalis*	5,219	0	2,610	0.59	0	0.30
			Anabaena sp.	34,112	38,719	36,415	3.57	2.77	3.17
		Euglenophyceae	*Trachelomonas* sp.	0	7,338	3,669	0	10.71	5.36
		Dinophyceae	*Gymnodinium* sp.	3,087	14,676	8,881	27.00	153.68	90.34
			Peridinium inconspicuum	9,261	7,338	8,300	7.18	3.89	5.53
			Peridinium umbonatum	137	542	339	0.53	2.99	1.76
		Xanthophyceae	*Ophiocytium cochleare*	0	3,669	1,834	0	4.96	2.48

Table B-4 Phytoplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
8-Aug-13	Af-7	Bacillariophyceae	*Asterionella formosa*	1,240	1,278	1,259	0.64	0.71	0.68
			Cyclotella spp.	0	10,780	5,390	0	6.10	3.05
			Tabellaria sp.	195	434	314	0.79	1.83	1.31
		Chlorophyceae	*Chlorella ellipsoidea*	7,249	10,780	9,015	0.57	1.22	0.89
			Chlorotetraedron incus	21,748	7,187	14,467	0.73	0.47	0.60
			Crucigenia tetrapedia	72,494	43,119	57,807	15.66	9.31	12.49
			Elakatothrix gelatinosa	0	265	133	0	0.05	0.03
			Gonatozygon monotaenium	12	10,780	5,396	0.14	0.21	0.18
			Micrasterias fimbriata	3,625	7,187	5,406	5,702	0.10	2,851
			Monoraphidium arcuatum	134	10,780	5,457	0.00	0.21	0.11
			Monoraphidium contortum	7,249	7,187	7,218	0.11	0.10	0.11
			Monoraphidium irregulare	14,499	133	7,316	0.42	0.00	0.21
			Monoraphidium komarkovae	669	133	401	0.02	0.01	0.02
			Oedogonium sp.	0	3,593	1,797	0	21.78	10.89
			Oocystis sp.	7,249	0	3,625	1.84	0	0.92
			Pediastrum tetras	0	28,746	14,373	0	1.72	0.86
			Roya sp.	936	530	733	0.16	0.08	0.12
			Scenedesmus quadricauda	0	14,373	7,187	0	1.31	0.66
			Spondylosium planum	584	1,350	967	0.51	1.01	0.76
			Staurodesmus triangularis	134	0	67	11.14	0	5.57
			Teilingia excavata	10,874	0	5,437	10.25	0	5.12
			Teilingia granulata	340	0	170	0.19	0	0.10
		Chrysophyceae	*Dinobryon bavaricum*	0	60	30	0	0.12	0.06
			Dinobryon divergens	109	133	121	0.11	0.14	0.12
			Dinobryon sp.	79,743	64,679	72,211	4.38	4.21	4.30
			Mallomonas sp.	7,249	0	3,625	4.29	0	2.14
			Ochromonas sp.	739,439	830,048	784,743	23.24	149.21	86.23
		Cryptophyceae	*Cryptomonas* sp. 4	134	0	67	0.29	0	0.14
			Plagioselmis nannoplanctica	25,373	39,526	32,449	2.37	4.36	3.37
			Rhodomonas sp.	0	3,593	1,797	0	7.01	3.50

Table B-4 Phytoplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
8-Aug-13	Af-7	Cyanobacteria	*Anabaena circinalis*	10,700	21,094	15,897	1.21	2.52	1.86
			Anabaena sp.	102,926	92,451	97,688	7.35	7.89	7.62
			Anabaena sp. 3	0	1,157	579	0	0.10	0.05
			Aphanocapsa elachista	0	2,411	1,205	0	0.00	0.00
			Chroococcus sp.	2,140	0	1,070	0.07	0	0.04
			Leptolyngbya sp.	1,204	0	602	0.04	0	0.02
		Euglenophyceae	*Trachelomonas* sp.	3,625	7,187	5,406	3.83	11.66	7.74
		Dinophyceae	*Gymnodinium* sp.	14,499	14,373	14,436	139.93	98.35	119.14
			Peridinium umbonatum	18,123	14,373	16,248	73.07	48.40	60.74
7-Sep-13	AF-1	Bacillariophyceae	*Achnanthidium* spp.	3,746	7,776	5,761	0.21	0.58	0.40
			Asterionella formosa	6,092	12,590	9,341	10.82	10.09	10.46
			Cyclotella spp.	3,746	0	1,873	0.81	0	0.40
			Encyonema spp.	3,746	0	1,873	1.02	0	0.51
			Navicula spp.	3,746	0	1,873	2.05	0	1.02
			Nitzschia spp.	3,746	145	1,945	1.55	1.32	1.44
			Tabellaria sp.	133	631	382	0.25	2.94	1.60
		Chlorophyceae	*Botryococcus protuberans*	3,211	2,748	2,980	0.09	0.08	0.08
			Chlorella ellipsoidea	3,746	0	1,873	0.33	0	0.16
			Chlorotetraedron incus	0	3,888	1,944	0	0.25	0.13
			Cosmarium sp.	0	434	217	0	6.24	3.12
			Crucigenia fenestrata	0	15,552	7,776	0	1.94	0.97
			Euastrum pulchellum	146	0	73	0.70	0	0.35
			Microspora sp.	0	526	263	0	1.07	0.54
			Monoraphidium komarkovae	0	145	72	0	0.01	0.01
			Monoraphidium minutum	0	3,888	1,944	0	0.09	0.05
			Monoraphidium tortile	0	3,888	1,944	0	0.06	0.03
			Mougeotia sp.	40	0	20	0.27	0	0.14
			Oedogonium sp.	0	145	72	0	1.63	0.81
			Pediastrum tetras	0	31,104	15,552	0	3.36	1.68
			Roya sp.	0	3,888	1,944	0	0.60	0.30

Table B-4 Phytoplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
7-Sep-13	AF-1	Chlorophyceae	*Sphaerocystis planktonica*	2,336	0	1,168	0.82	0	0.41
			Spondylosium planum	159	0	80	0.16	0	0.08
			Staurodesmus triangularis	584	1,157	870	50.75	117.08	83.91
		Chrysophyceae	*Dinobryon bavaricum*	44,955	79,292	62,124	79.58	97.56	88.57
			Dinobryon bavaricum var. vanhoeffenii	90,505	0	45,253	135.13	0	67.57
			Dinobryon borgei	3,746	0	1,873	1.07	0	0.53
			Dinobryon divergens	55,471	70,822	63,147	75.22	54.92	65.07
			Dinobryon sp.	48,702	23,328	36,015	1.45	1.01	1.23
			Mallomonas insignis	7,493	289	3,891	2.61	0.78	1.70
			Ochromonas sp.	884,123	835,921	860,022	116.77	114.84	115.80
		Cryptophyceae	*Cryptomonas* sp. 2	14,985	11,664	13,325	10.49	27.53	19.01
			Cryptomonas sp. 3	146	1,012	579	1.22	7.90	4.56
			Cryptomonas sp. 4	3,746	3,888	3,817	3.34	2.89	3.11
			Plagioselmis nannoplanctica	56,194	120,528	88,361	3.78	8.45	6.11
		Cyanobacteria	*Anabaena circinalis*	0	657	329	0	0.05	0.03
			Anabaena sp.	4,180	5,482	4,831	1.31	0.35	0.83
			Anabaena sp. 2	5,109	3,260	4,185	0.21	0.33	0.27
			Anabaena sp. 3	52,448	0	26,224	4.57	0	2.28
			Leptolyngbya sp.	451	23,328	11,890	0.01	0.89	0.45
			Merismopedia sp.	0	62,208	31,104	0	0.36	0.18
			Phormidium sp.	863	0	431	0.07	0	0.04
			Pseudanabaena catenata	0	171	85	0	0.01	0.01
			Woronichinia naegeliana	0	8,677	4,338	0	0.06	0.03
		Euglenophyceae	*Euglena* sp.	3,746	0	1,873	12.85	0	6.42
		Dinophyceae	*Gymnodinium* sp.	7,493	11,664	9,578	36.09	48.07	42.08
			Peridinium inconspicuum	0	3,888	1,944	0	4.98	2.49
			Peridinium sp.	4,671	8,677	6,674	29.41	64.36	46.89
			Peridinium umbonatum	14,985	19,440	17,213	54.66	99.75	77.20
			Peridinium willei	292	0	146	16.91	0	8.45
		Xanthophyceae	*Tetraedriella jovetti*	0	7,776	3,888	0	1.95	0.98

Table B-4 Phytoplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
7-Sep-13	AF-7	Bacillariophyceae	*Asterionella formosa*	8,398	6,603	7,501	5.20	6.73	5.96
			Cyclotella spp.	0	4,015	2,008	0	1.89	0.95
			Fragilaria spp.	147	0	73	0.06	0	0.03
			Navicula spp.	4,600	13	2,307	2.73	0.30	1.52
			Nitzschia sp.	0	13	6	0	0.15	0.07
			Tabellaria sp.	0	116	58	0	0.71	0.36
		Chlorophyceae	*Botryococcus protuberans*	3,813	9,815	6,814	0.16	0.59	0.38
			Chlorella ellipsoidea	13,801	4,015	8,908	1.56	0.45	1.01
			Chlorotetraedron incus	0	4,015	2,008	0	0.19	0.10
			Cosmarium sp.	0	427	213	0	2.51	1.25
			Elakatothrix gelatinosa	0	16,062	8,031	0	9.93	4.97
			Gonatozygon kinahani	0	13	6	0	0.28	0.14
			Microspora sp.	40	414	227	0.28	0.77	0.52
			Monoraphidium komarkovae	0	4,015	2,008	0	0.21	0.10
			Monoraphidium tortile	4,600	12,046	8,323	0.07	0.34	0.20
			Oocystis sp.	147	0	73	0.72	0	0.36
			Pediastrum tetras	0	32,124	16,062	0	3.47	1.73
			Quadrigula closterioides	1,760	0	880	0.54	0	0.27
			Scenedesmus denticulatus	18,402	0	9,201	1.93	0	0.96
			Sphaerocystis planktonica	2,347	0	1,173	1.43	0	0.72
			Spondylosium sp.	107	543	325	0.29	0.33	0.31
			Staurastrum sp.	293	0	147	3.16	0	1.58
			Staurodesmus triangularis	880	711	796	40.01	24.84	32.43
		Chrysophyceae	*Dinobryon bavaricum*	97,296	54,487	75,892	157.43	40.63	99.03
			Dinobryon borgei	9,201	4,015	6,608	3.12	1.06	2.09
			Dinobryon divergens	54,162	80,224	67,193	120.69	107.11	113.90
			Dinobryon sp.	170,217	80,310	125,263	16.30	5.84	11.07
			Mallomonas insignis	4,600	4,015	4,308	2.07	1.70	1.88
			Mallomonas sp.	147	0	73	0.74	0	0.37
			Ochromonas sp.	966,095	839,236	902,665	125.68	81.42	103.55
			Synuropsis sp.	0	1,707	853	0	1.09	0.54

Table B-4 Phytoplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
7-Sep-13	AF-7	Cryptophyceae	*Cryptomonas* sp.	587	1,707	1,147	2.58	12.95	7.77
			Cryptomonas sp. 2	9,201	12,046	10,624	14.65	17.66	16.16
			Cryptomonas sp. 4	13,801	12,046	12,924	10.07	9.45	9.76
			Plagioselmis nannoplanctica	82,808	144,557	113,683	5.40	8.55	6.97
		Cyanobacteria	*Anabaena circinalis*	4,160	802	2,481	0.59	0.52	0.55
			Anabaena sp.	3,813	4,306	4,060	0.27	0.66	0.46
			Anabaena sp. 2	2,347	4,254	3,300	0.31	0.35	0.33
			Anabaena sp. 3	69,007	0	34,503	4.52	0	2.26
			Leptolyngbya sp.	50,605	2,832	26,718	1.59	0.03	0.81
			Nostoc sp.	533	0	267	0.08	0	0.04
			Phormidium sp.	1,667	1,384	1,525	0.12	0.12	0.12
			Pseudanabaena catenata	13	0	7	0.00	0	0.00
		Dinophyceae	*Gymnodinium* sp.	23,002	0	11,501	120.44	0	60.22
			Peridinium sp.	7,648	7,823	7,736	60.64	95.68	78.16
			Peridinium umbonatum	9,201	12,046	10,624	30.98	41.97	36.48
			Peridinium willei	0	284	142	0	21.56	10.78

Notes: Samples were analyzed by EcoAnalysts, Inc. Values are rounded to the nearest whole number. Numbers next to genus names (e.g., *Cryptomonas* sp. 2) are unique species identifiers.

cells/L = number of cells per litre; mg/m^3 = milligrams per cubic metre; Late Spring = July; Summer = August; Fall = September; sp. = species; spp. = multiple species.

Table B-5 Phytoplankton Abundance and Biomass in Lake Af1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
26-Jul-13	Af-10	Bacillariophyceae	*Cyclotella* spp.	10,010	0.00	5,005	34.59	0.00	17.30
			Eunotia spp.	0	3,485	1,742	0	4.43	2.22
			Navicula sp.	13	13,940	6,976	0.19	6.83	3.51
			Nitzschia spp.	143	3,485	1,814	0.66	1.38	1.02
			Tabellaria sp.	430	122	276	0.53	0.14	0.34
		Chlorophyceae	*Ankistrodesmus falcatus*	1,147	6,586	3,867	0.07	0.43	0.25
			Botryococcus braunii	4,157	0	2,078	0.11	0	0.05
			Botryococcus protuberans	0	2,395	1,198	0	0.14	0.07
			Chlorotetraedron incus	33,367	38,334	35,850	2.25	3.48	2.87
			Closterium dianae	0	14	7	0	0.53	0.26
			Closterium sp.	0	150	75	0	0.19	0.09
			Cosmarium sp.	3,337	150	1,743	23.11	1.22	12.16
			Crucigenia tetrapedia	173,510	125,456	149,483	47.65	52.93	50.29
			Dictyosphaerium ehrenbergianum	106,775	125,456	116,115	4.67	6.05	5.36
			Dictyosphaerium sp.	2,293	1,796	2,045	0.09	0.33	0.21
			Gonium pectorale	2,293	3,593	2,943	0.65	0.96	0.80
			Kirchneriella obesa	26,694	13,940	20,317	0.43	0.13	0.28
			Monoraphidium arcuatum	75,677	175,638	125,657	1.52	3.80	2.66
			Monoraphidium irregulare	63,064	55,985	59,524	1.03	1.41	1.22
			Monoraphidium komarkovae	94,596	408,358	251,477	4.07	28.52	16.30
			Monoraphidium tortile	0	27,879	13,940	0	0.93	0.47
			Pediastrum boryanum	0	7,185	3,593	0	6.44	3.22
			Pediastrum tetras	3,440	27,879	15,659	0.52	1.67	1.10
			Quadrigula closterioides	573	0	287	0.13	0	0.06
			Scenedesmus quadricauda	573	13,940	7,256	0.13	1.77	0.95
			Scenedesmus sp.	93,428	160,304	126,866	7.92	22.03	14.98
			Selenastrum gracile	10,010	0	5,005	0.12	0	0.06
			Sphaerocystis planktonica	1,147	6,586	3,867	0.54	1.96	1.25
			Spondylosium planum	0	45,303	22,652	0	64.28	32.14
			Staurastrum sp.	143	0	72	0.15	0	0.08
			Staurodesmus spp.	6,673	0	3,337	270.19	0	135.10
			Staurodesmus triangularis	2,007	2,545	2,276	75.34	220.90	148.12

Table B-5 Phytoplankton Abundance and Biomass in Lake Af1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
26-Jul-13	Af-10	Chlorophyceae	*Teilingia granulata*	104	735	420	0.20	0.90	0.55
			Tetraedron regulare	10,010	10,455	10,232	1.96	3.39	2.67
			Tetrastrum triangulare	13,347	27,879	20,613	0.45	1.33	0.89
		Chrysophyceae	*Chrysocapsella planctonica*	3,297	0	1,648	0.50	0	0.25
			Mallomonas insignis	3,337	10,455	6,896	15.72	32.02	23.87
			Mallomonas sp.	3,337	20,909	12,123	10.29	66.44	38.37
			Ochromonas sp.	270,275	174,244	222,259	51.04	34.27	42.66
			Pseudokephyrion sp.	0	3,485	1,742	0	0.16	0.08
			Synuropsis sp.	36,704	31,364	34,034	10.36	8.85	9.61
		Cryptophyceae	*Cryptomonas* sp.	2,293	449	1,371	4.69	1.08	2.88
			Cryptomonas sp. 3	2,580	748	1,664	25.19	7.16	16.17
		Cyanobacteria	*Anabaena circinalis*	265,156	130,951	198,053	56.69	24.74	40.72
			Anabaena sp.	2,648,694	2,418,505	2,533,600	389.19	315.39	352.29
			Anabaena spp.	2,389,097	0	1,194,548	220.71	0	110.36
			Aphanocapsa elachista	200,204	0	100,102	0.35	0	0.18
			Aphanocapsa incerta	53,031	0	26,516	0.56	0	0.28
			Chroococcus sp.	10,010	83,637	46,824	0.22	2.80	1.51
			Woronichinia naegeliana	31,532	31,435	31,484	0.24	0.31	0.28
			Woronichinia sp.	0	585,460	292,730	0	4.29	2.15
		Euglenophyceae	*Euglena* sp.	143	150	147	1.07	2.25	1.66
			Trachelomonas sp.	143	0	72	0.91	0	0.46
		Dinophyceae	*Amphidinium* sp.	287	0	143	0.61	0	0.30
			Gymnodinium sp.	10,010	20,909	15,460	28.18	121.87	75.03
			Peridinium sp.	6,757	3,144	4,950	43.40	20.58	31.99
		Xanthophyceae	*Ophiocytium bicuspidatum*	3,337	3,485	3,411	10.19	2.98	6.58
			Tetraedriella jovetti	13,347	13,940	13,643	1.92	2.36	2.14

Table B-5 Phytoplankton Abundance and Biomass in Lake Af1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
17-Aug-13	Af-10	Bacillariophyceae	*Achnanthidium* spp.	6,041	0	3,021	0.47	0	0.23
			Asterionella formosa	6,041	0	3,021	3.72	0	1.86
			Cyclotella spp.	24,165	0	12,082	6.15	0	3.07
			Fragilaria spp.	13,451	11,173	12,312	5.64	3.57	4.61
			Navicula spp.	1,070	1,114	1,092	0.76	0.67	0.71
			Nitzschia spp.	1,070	1,253	1,162	0.23	0.29	0.26
			Tabellaria sp.	365	747	556	1.31	1.93	1.62
		Chlorophyceae	*Ankistrodesmus falcatus*	18,123	52,833	35,478	43.84	2.24	23.04
			Chlamydomonas sp.	48,329	67,929	58,129	16.10	12.20	14.15
			Chlorella ellipsoidea	6,041	30,190	18,116	0.47	3.41	1.94
			Chlorotetraedron incus	30,206	60,381	45,293	1.01	2.02	1.52
			Closterium kuetzingii	0	7,548	3,774	0	319.86	159.93
			Cosmarium sp.	0	139	70	0	0.93	0.46
			Crucigenia fenestrata	24,165	90,571	57,368	24.16	24.87	24.52
			Crucigenia tetrapedia	96,659	256,619	176,639	33.15	70.47	51.81
			Crucigeniella rectangularis	48,329	0	24,165	603.50	0	301.75
			Elakatothrix gelatinosa	6,041	0	3,021	16.74	0	8.37
			Gonium pectorale	6,420	2,228	4,324	1.12	0.29	0.71
			Lagerheimia genevensis	0	7,548	3,774	0	0.23	0.11
			Monoraphidium arcuatum	38,841	30,635	34,738	0.68	0.49	0.58
			Monoraphidium contortum	48,329	67,929	58,129	0.86	1.01	0.93
			Monoraphidium irregulare	20,270	27,134	23,702	0.60	0.84	0.72
			Monoraphidium komarkovae	58,849	26,040	42,445	2.49	0.95	1.72
			Monoraphidium tortile	12,082	0	6,041	0.43	0	0.21
			Oocystis sp.	12,082	7,548	9,815	3.33	2.85	3.09
			Pediastrum tetras	48,329	7,548	27,938	3.62	0.63	2.13
			Roya sp.	267	139	203	0.04	0.02	0.03
			Scenedesmus denticulatus	60,412	75,476	67,944	9.62	7.27	8.45
			Scenedesmus quadricauda	72,494	60,381	66,437	9.22	10.67	9.95
			Scenedesmus sp.	30,206	30,190	30,198	2.06	1.25	1.65
			Spondylosium planum	535	0	267	0.40	0	0.20
			Staurodesmus triangularis	134	557	345	18.58	35.04	26.81

Table B-5 Phytoplankton Abundance and Biomass in Lake Af1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
17-Aug-13	Af-10	Chlorophyceae	*Tetraedron caudatum*	0	15,095	7,548	0	1.69	0.85
			Teilingia excavata	535	0	267	0.22	0	0.11
			Teilingia granulata	413	0	207	0.24	0	0.12
			Tetraedron muticum	12,082	105,667	58,874	0.58	5.07	2.83
			Tetraedron triangulare	0	7,548	3,774	0	2.13	1.06
		Chrysophyceae	*Dinobryon borgei*	18,123	7,548	12,836	8.82	3.41	6.12
			Dinobryon sp.	296,017	339,643	317,830	15.79	19.56	17.68
			Mallomonas sp.	6,041	7,548	6,794	3.38	4.13	3.75
			Ochromonas sp.	501,417	618,905	560,161	68.89	79.58	74.23
		Cryptophyceae	*Cryptomonas* sp.	12,082	0	6,041	7.43	0	3.72
			Cryptomonas sp. 2	535	418	476	0.94	0.97	0.96
			Cryptomonas sp. 4	12,082	7,548	9,815	12.90	5.35	9.13
			Plagioselmis nannoplanctica	18,123	7,548	12,836	1.02	0.68	0.85
			Rhodomonas sp.	6,041	0	3,021	14.24	0	7.12
		Cyanobacteria	*Anabaena circinalis*	3,040	5,950	4,495	0.34	0.67	0.51
			Anabaena sp.	1,733,814	1,713,309	1,723,562	210.93	161.22	186.07
			Anabaena sp. 3	5,958	2,912	4,435	0.58	0.29	0.44
			Aphanocapsa elachista	20,062	13,925	16,994	0.06	0.04	0.05
			Aphanocapsa grevillei	1,329,056	0	664,528	27.35	0	13.68
			Chroococcus sp.	0	120,762	60,381	0	11.10	5.55
			Leptolyngbya sp.	69,927	60,658	65,292	2.03	1.76	1.90
			Merismopedia sp.	193,317	0	96,659	1.55	0	0.77
			Woronichinia naegeliana	9,362	8,355	8,859	0.39	0.35	0.37
		Euglenophyceae	*Euglena* sp.	134	0	67	0.87	0	0.44
			Trachelomonas sp.	12,082	139	6,111	23.94	0.70	12.32
		Dinophyceae	*Gymnodinium* sp.	24,165	0	12,082	265.15	0	132.57
			Peridinium umbonatum	267	37,738	19,003	1.12	112.97	57.05
12-Sep-13	Af-10	Bacillariophyceae	*Achnanthidium* spp.	5,124	0	2,562	0.63	0	0.31
			Asterionella formosa	2,562	0	1,281	1.25	0	0.63
			Aulacoseira sp.	7,686	5,737	6,711	5.11	2.19	3.65
			Cyclotella spp.	12,809	17,212	15,011	5.03	4.38	4.71
			Encyonema spp.	2,562	137	1,350	0.65	0.13	0.39

Table B-5 Phytoplankton Abundance and Biomass in Lake Af1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
12-Sep-13	Af-10	Bacillariophyceae	*Eunotia* sp.	0	12	6	0	0.13	0.06
			Fragilaria spp.	4,079	1,646	2,863	1.42	0.55	0.98
			Navicula spp.	422	137	280	1.18	0.28	0.73
			Navicymbula spp.	0	2,869	1,434	0	2.67	1.33
			Nitzschia spp.	563	412	487	0.12	0.22	0.17
			Staurosira construens	0	2,869	1,434	0	1.26	0.63
			Tabellaria sp.	0	125	62	0	0.46	0.23
			Unknown *pennales* sp.	0	2,869	1,434	0	0.95	0.47
		Chlorophyceae	*Ankistrodesmus falcatus*	3,095	2,332	2,713	5.51	1.99	3.75
			Bulbochaete spp.	51	0	26	1.45	0	0.72
			Chlorella ellipsoidea	7,686	5,737	6,711	0.79	0.65	0.72
			Coelastrum microporum	0	22,949	11,475	0	6.15	3.08
			Cosmarium sp.	141	274	208	0.75	2.33	1.54
			Crucigenia fenestrata	10,247	0	5,124	1.28	0	0.64
			Desmodesmus denticulatus	0	45,898	22,949	0	10.81	5.41
			Desmodesmus subspicatus	10,247	0	5,124	1.42	0	0.71
			Dictyosphaerium sp.	4,501	91,797	48,149	0.34	5.06	2.70
			Elakatothrix gelatinosa	0	274	137	0	0.03	0.01
			Gonium pectorale	2,251	4,390	3,320	0.30	0.50	0.40
			Kirchneriella lunaris	0	34,424	17,212	0	1.01	0.50
			Monoraphidium arcuatum	1,688	1,097	1,393	0.03	0.02	0.03
			Monoraphidium irregulare	1,547	274	911	0.04	0.01	0.03
			Monoraphidium komarkovae	19,805	37,423	28,614	0.84	1.74	1.29
			Monoraphidium minutum	2,562	0	1,281	0.09	0	0.05
			Monoraphidium tortile	141	412	276	0.00	0.01	0.01
			Mougeotia sp.	102	0	51	1.08	0	0.54
			Oocystis sp.	2,562	17,212	9,887	0.58	3.00	1.79
			Quadrigula closterioides	1,688	549	1,118	0.16	0.09	0.12
			Roya sp.	141	5,737	2,939	0.06	0.73	0.39
			Scenedesmus quadricauda	0	68,848	34,424	0	9.49	4.74
			Spondylosium planum	422	0	211	0.22	0	0.11
			Staurodesmus triangularis	141	549	345	9.43	45.94	27.69

Table B-5 Phytoplankton Abundance and Biomass in Lake Af1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
12-Sep-13	Af-10	Chlorophyceae	*Teilingia excavata*	294	0	147	0.14	0	0.07
			Teilingia granulata	384	823	603	0.22	0.45	0.34
			Tetraedron muticum	0	2,869	1,434	0	0.31	0.15
		Chrysophyceae	*Dinobryon bavaricum*	0	20,081	10,040	0	35.55	17.77
			Dinobryon borgei	0	2,869	1,434	0	1.27	0.63
			Dinobryon sp.	7,686	28,687	18,186	0.53	1.80	1.17
			Mallomonas insignis	0	137	69	0	0.05	0.03
			Ochromonas sp.	522,617	536,438	529,527	61.80	75.51	68.65
		Cryptophyceae	*Cryptomonas* sp. 2	563	274	419	1.30	0.70	1.00
			Cryptomonas sp. 4	422	549	485	0.50	0.55	0.52
			Plagioselmis nannoplanctica	7,686	5,737	6,711	0.59	0.38	0.49
		Cyanobacteria	*Anabaena circinalis*	69,170	0	34,585	7.82	0	3.91
			Anabaena sp.	557,017	376,649	466,833	54.79	42.95	48.87
			Anabaena sp. 3	110,159	0	55,080	12.46	0	6.23
			Aphanocapsa elachista	7,033	143,433	75,233	0.02	0.25	0.14
			Chroococcus dispersus	3,376	0	1,688	0.03	0	0.01
			Leptolyngbya sp.	52,369	39,509	45,939	1.65	1.15	1.40
			Stigonema spp.	0	3,754	1,877	0	2.87	1.43
			Woronichinia naegeliana	14,066	9,603	11,834	0.27	0.18	0.22
		Euglenophyceae	*Euglena* sp.	141	0	70	0.95	0	0.47
			Trachelomonas sp.	0	2,869	1,434	0	3.09	1.54
		Dinophyceae	*Gymnodinium* sp.	7,686	11,475	9,580	27.38	27.69	27.53
			Peridinium inconspicuum	141	274	208	0.45	0.95	0.70
			Peridinium umbonatum	563	549	556	2.78	2.40	2.59
			Peridinium willei	0	137	69	0	3.57	1.79
		Xanthophyceae	*Ophiocytium parvulum*	2,562	0	1,281	2.27	0	1.13
			Tetraedriella jovetti	0	2,869	1,434	0	0.81	0.41

Notes: Samples were analyzed by EcoAnalysts, Inc. Numbers next to genus names (e.g., *Cryptomonas* sp. 2) are unique species identifiers.
cells/L = number of cells per litre; mg/m^3 = milligrams per cubic metre; Late Spring = July; Summer = August; Fall = September; sp. = species; spp. = multiple species.

Table B-6 Phytoplankton Abundance and Biomass in Lake E1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
17-Aug-13	E-L1-1	Bacillariophyceae	*Asterionella formosa*	0	128	64	0	0.07	0.03
			Aulacoseira sp.	0	326	163	0	0.20	0.10
			Cyclotella spp.	2,778	6,039	4,409	1.32	2.37	1.85
			Fragilaria spp.	0	128	64	0	0.05	0.02
			Gomphonema spp.	2,778	0	1,389	0.68	0	0.34
			Navicula spp.	0	128	64	0	0.05	0.02
			Nitzschia spp.	128	128	128	0.07	0.07	0.07
			Tabellaria sp.	128	128	128	1.18	0.80	0.99
		Chlorophyceae	*Chlamydomonas* sp.	13,890	6,039	9,965	5.30	1.08	3.19
			Chlorella ellipsoidea	0	6,039	3,020	0	0.62	0.31
			Chlorotetraedron incus	11,112	3,020	7,066	0.73	0.20	0.46
			Crucigenia fenestrata	11,112	0	5,556	2.40	0	1.20
			Crucigenia tetrapedia	0	60,393	30,197	0	20.71	10.36
			Eudorina elegans	373	0	186	0.14	0	0.07
			Gonatozygon monotaenium	12	12	12	0.62	0.49	0.56
			Monoraphidium arcuatum	2,778	256	1,517	0.05	0.00	0.03
			Monoraphidium contortum	2,778	0	1,389	0.02	0	0.01
			Monoraphidium irregulare	2,778	3,020	2,899	0.05	0.08	0.07
			Monoraphidium komarkovae	256	769	513	0.01	0.03	0.02
			Monoraphidium tortile	128	384	256	0	0.01	0.01
			Mougeotia sp.	12	0	6	0.63	0	0.31
			Oedogonium sp.	93	0	47	0.15	0	0.07
			Oocystis sp.	0	3,020	1,510	0	0.56	0.28
			Pediastrum tetras	22,225	0	11,112	5.40	0	2.70
			Roya sp.	128	6,039	3,084	0.02	0.73	0.37
			Scenedesmus bicaudatus	0	6,039	3,020	0	0.33	0.16
			Scenedesmus denticulatus	11,112	12,079	11,595	1.07	1.06	1.07
			Scenedesmus quadricauda	0	12,079	6,039	0	2.39	1.20
			Spondylosium planum	93	0	47	0.07	0	0.03
			Teilingia granulata	0	116	58	0	0.06	0.03
			Tetraedron caudatum	0	6,039	3,020	0	0.77	0.38

Table B-6 Phytoplankton Abundance and Biomass in Lake E1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
17-Aug-13	E-L1-1	Chlorophyceae	*Tetraedron muticum*	2,778	0	1,389	0.17	0	0.08
			Tetraedron triangulare	2,778	0	1,389	1.00	0	0.50
		Chrysophyceae	*Dinobryon* sp.	263,918	208,356	236,137	12.53	11.65	12.09
			Ochromonas sp.	391,709	522,400	457,055	56.42	74.51	65.46
		Cryptophyceae	*Cryptomonas* sp. 2	641	641	641	1.23	1.40	1.31
			Cryptomonas sp. 4	128	0	64	0.25	0	0.12
			Plagioselmis nannoplanctica	80,564	48,314	64,439	5.68	2.31	4.00
			Rhodomonas sp.	11,112	0	5,556	13.09	0	6.55
		Cyanobacteria	*Anabaena* sp.	42,807	33,588	38,198	4.21	2.66	3.44
			Aphanocapsa elachista	6,407	6,407	6,407	0.02	0.02	0.02
			Leptolyngbya sp.	524	51,334	25,929	0.02	1.95	0.98
			Oscillatoria sp.	932	0	466	0.35	0	0.18
		Euglenophyceae	*Euglena* sp.	0	3,020	1,510	0	8.79	4.40
			Trachelomonas sp.	5,556	3,020	4,288	6.73	2.53	4.63
		Dinophyceae	*Gymnodinium* sp.	8,334	12,079	10,206	57.44	127.48	92.46
			Peridinium inconspicuum	0	3,020	1,510	0	2.23	1.11
			Peridinium umbonatum	128	15,098	7,613	0.74	30.92	15.83
12-Sep-13	E-L1-1	Bacillariophyceae	*Achnanthidium* spp.	1,721	0	861	0.11	0	0.06
			Aulacoseira sp.	0	4,480	2,240	0	1.42	0.71
			Cyclotella spp.	10,328	4,480	7,404	3.24	1.43	2.34
			Encyonema spp.	0	130	65	0	0.05	0.03
			Eunotia sp.	250	0	125	0.24	0	0.12
			Navicula spp.	1,721	1,493	1,607	0.54	1.07	0.80
			Nitzschia spp.	1,721	1,493	1,607	0.31	0.17	0.24
			Pinnularia spp.	0	130	65	0	1.00	0.50
		Chlorophyceae	*Bulbochaete* spp.	91	0	45	0.62	0	0.31
			Chlorella ellipsoidea	5,164	5,973	5,569	0.45	0.52	0.49
			Crucigenia tetrapedia	13,771	0	6,885	4.72	0	2.36
			Desmodesmus denticulatus	6,885	0	3,443	1.62	0	0.81
			Dictyosphaerium sp.	0	71,678	35,839	0	4.21	2.10
			Hyalotheca dissiliens	0	141	71	0	1.32	0.66
			Monoraphidium arcuatum	1,721	0	861	0.04	0	0.02

Table B-6 Phytoplankton Abundance and Biomass in Lake E1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
12-Sep-13	E-L1-1	Chlorophyceae	*Monoraphidium komarkovae*	3,443	4,480	3,961	0.15	0.24	0.20
			Monoraphidium minutum	1,721	2,987	2,354	0.03	0.08	0.06
			Monoraphidium tortile	3,443	1,493	2,468	0.08	0.02	0.05
			Mougeotia sp.	386	448	417	4.36	7.63	6.00
			Oedogonium sp.	443	353	398	1.53	1.09	1.31
			Oocystis sp.	10,328	2,987	6,657	3.77	0.86	2.31
			Ulothrix sp.	0	200	100	0	0.05	0.03
		Chrysophyceae	*Chrysocapsella planctonica*	0	5,973	2,987	0	1.30	0.65
			Dinobryon bavaricum	6,885	1,493	4,189	10.50	2.92	6.71
			Dinobryon sp.	12,049	1,493	6,771	0.87	0.08	0.47
			Ochromonas sp.	397,631	365,855	381,743	47.44	42.23	44.83
			Pseudokephyrion spp.	0	4,480	2,240	0	0.53	0.26
		Cryptophyceae	*Cryptomonas* sp. 2	12,049	1,493	6,771	10.14	4.27	7.20
			Cryptomonas sp. 4	5,164	8,960	7,062	5.96	8.68	7.32
			Plagioselmis nannoplanctica	15,492	2,987	9,239	1.08	0.17	0.63
		Cyanobacteria	*Anabaena* sp.	2,045	177	1,111	0.22	0.02	0.12
			Aphanocapsa elachista	344,269	12,960	178,614	1.05	0.02	0.54
			Aphanocapsa incerta	206,561	0	103,281	0.36	0	0.18
			Calothrix sp.	568	0	284	0.64	0	0.32
			Leptolyngbya sp.	29,263	25,386	27,324	0.92	0.80	0.86
			Merismopedia sp.	0	40,319	20,159	0	0.32	0.16
			Oscillatoria sp.	0	2,592	1,296	0	0.61	0.31
			Woronichinia naegeliana	172,134	0	86,067	7.21	0	3.61
		Dinophyceae	*Gymnodinium* sp.	3,443	4,480	3,961	14.19	14.37	14.28
			Peridinium umbonatum	125	7,466	3,796	0.45	19.90	10.17
		Xanthophyceae	*Tetraedriella jovetti*	3,443	2,987	3,215	1.35	0.95	1.15

Notes: Samples were analyzed by EcoAnalysts, Inc. Numbers next to genus names (e.g., *Cryptomonas* sp. 2) are unique species identifiers.
cells/m^3 = number of cells per cubic metre; mg/m^3 = milligrams per cubic metre; Late Spring = July; Summer = August; Fall = September; sp. = species; spp. = multiple species.

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
28-Jul-13	PL-1	Bacillariophyceae	*Asterionella formosa*	65	2,952	1,508	0.05	1.80	0.93
			Cyclotella spp.	0	18,040	9,020	0	22.32	11.16
			Fragilaria spp.	0	148	74	0	0.03	0.01
			Navicula sp.	1,419	0	710	0.39	0	0.20
			Nitzschia spp.	142	148	145	0.06	0.10	0.08
		Chlorophyceae	*Ankistrodesmus falcatus*	0	2,577	1,289	0	5.85	2.92
			Botryococcus braunii	3,556	0	1,778	0.16	0	0.08
			Chlorella ellipsoidea	7,096	12,886	9,991	0.20	0.97	0.59
			Chlorotetraedron incus	2,838	0	1,419	0.27	0	0.14
			Crucigenia tetrapedia	17,030	30,925	23,978	4.68	53.44	29.06
			Crucigeniella rectangularis	0	5,154	2,577	0	6.86	3.43
			Dictyosphaerium sp.	34,061	0	17,030	1.70	0	0.85
			Elakatothrix gelatinosa	2,838	15,463	9,151	0.23	2.13	1.18
			Monoraphidium arcuatum	1,419	0	710	0.05	0	0.03
			Monoraphidium irregulare	1,419	0	710	0.02	0	0.01
			Monoraphidium komarkovae	1,707	738	1,222	0.04	0.02	0.03
			Monoraphidium minutum	1,419	0	710	0	0	0
			Monoraphidium tortile	19,869	15,463	17,666	1.89	0.62	1.25
			Oocystis sp.	7,096	0	3,548	6.74	0	3.37
			Pediastrum tetras	22,707	0	11,354	2.86	0	1.43
			Scenedesmus sp.	0	10,308	5,154	0	1.08	0.54
			Sphaerocystis sp.	0	20,617	10,308	0	14.37	7.18
			Staurastrum sp.	284	148	216	0.81	0.43	0.62
			Staurodesmus sp.	1,419	0	710	99.91	0	49.96
			Staurodesmus triangularis	0	148	74	0	13.07	6.54
			Teilingia granulata	2,838	0	1,419	4.35	0	2.17
			Tetrastrum triangulare	0	30,925	15,463	0	2.02	1.01
		Chrysophyceae	*Bitrichia chodatii*	1,419	2,577	1,998	0.37	0.32	0.35
			Chrysocapsella planctonica	2,418	0	1,209	0.36	0	0.18
			Mallomonas insignis	0	2,577	1,289	0	1.45	0.73
			Mallomonas sp.	5,677	20,617	13,147	20.62	53.44	37.03

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
28-Jul-13	PL-1	Chrysophyceae	*Ochromonas* sp.	124,889	448,419	286,654	34.02	65.96	49.99
			Synuropsis sp.	31,222	0	15,611	10.81	0	5.41
		Cryptophyceae	*Cryptomonas* sp.	17,030	2,577	9,804	27.13	3.50	15.31
			Plagioselmis nannoplanctica	163,207	149,473	156,340	20.20	14.65	17.43
		Cyanobacteria	*Anabaena circinalis*	42,103	285,456	163,780	7.61	74.19	40.90
			Anabaena sp.	7,448	6,857	7,152	0.68	0.63	0.65
			Anabaena spp.	0	105,662	52,831	0	18.98	9.49
			Aphanothece clathrata	0	77,314	38,657	0	0.65	0.32
			Chroococcus sp.	5,677	20,617	13,147	0.08	0.17	0.12
			Gloeothece sp.	0	48,965	24,483	0	1.38	0.69
			Leptolyngbya sp.	15,504	577	8,041	0.24	0.01	0.12
			Merismopedia sp.	34,061	77,314	55,687	0.53	2.09	1.31
			Woronichinia naegeliana	5,690	2,577	4,133	91.61	0.02	45.81
		Dinophyceae	*Amphidinium* sp.	12,773	2,577	7,675	11.33	3.65	7.49
			Peridinium sp.	142	0	71	0.90	0.00	0.45
			Peridinium umbonatum	0	7,731	3,866	0	4.57	2.29
28-Jul-13	PL-2	Bacillariophyceae	*Achnanthidium* spp.	2,838	0	1,419	0.26	0	0.13
			Asterionella formosa	26	4,929	2,477	0.02	2.84	1.43
			Cyclotella spp.	11,354	0	5,677	3.85	0	1.93
			Fragilaria spp.	0	282	141	0	0.11	0.06
			Navicula sp.	142	0	71	0.10	0	0.05
			Nitzschia spp.	284	0	142	0.12	0	0.06
			Tabellaria sp.	711	1,694	1,202	1.08	4.59	2.83
		Chlorophyceae	*Ankistrodesmus falcatus*	5,677	1,643	3,660	0.96	7.75	4.35
			Botryococcus braunii	10,810	0	5,405	0.35	0	0.17
			Chlorella ellipsoidea	22,707	19,716	21,211	3.57	0.84	2.20
			Chlorotetraedron incus	8,515	0	4,258	0.56	0	0.28
			Cosmarium sp.	142	0	71	2.19	0	1.09
			Crucigenia tetrapedia	0	19,716	9,858	0	14.37	7.19
			Crucigeniella rectangularis	0	4,517	2,258	0	3.90	1.95
			Elakatothrix gelatinosa	0	6,572	3,286	0	7.97	3.98
			Gonatozygon monotaenium	0	38	19	0	1.44	0.72

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
28-Jul-13	PL-2	Chlorophyceae	*Micrasterias mahabuleshwarensis*	0	13	6	0	30.19	15.10
			Monoraphidium contortum	0	141	71	0	0	0
			Monoraphidium komarkovae	569	0	284	0.02	0	0.01
			Monoraphidium minutum	5,677	1,643	3,660	0.06	0.01	0.03
			Monoraphidium tortile	427	14,787	7,607	0.01	0.39	0.20
			Mougeotia sp.	0	13	6	0	0.55	0.28
			Quadrigula closterioides	2,276	1,129	1,703	0.87	0.43	0.65
			Staurastrum sp.	142	141	142	0.77	0.09	0.43
			Staurodesmus triangularis	284	0	142	16.49	0	8.25
			Teilingia granulata	17,030	167	8,599	7.95	0.21	4.08
			Tetraedron caudatum	0	1,643	821	0	0.28	0.14
			Tetrastrum triangulare	11,354	0	5,677	0.74	0	0.37
		Chrysophyceae	*Mallomonas* sp.	0	3,286	1,643	0	4.94	2.47
			Ochromonas sp.	425,757	256,306	341,031	58.35	30.94	44.65
		Cryptophyceae	*Cryptomonas* sp.	8,515	141	4,328	6.69	0.45	3.57
			Plagioselmis nannoplanctica	252,616	121,581	187,098	26.16	12.72	19.44
		Cyanobacteria	*Anabaena circinalis*	182,069	50,105	116,087	29.17	8.39	18.78
			Anabaena sp.	5,341	7,712	6,526	0.38	0.65	0.51
			Anabaena spp.	0	202,088	101,044	0	34.05	17.02
			Aphanocapsa delicatissima	0	8,469	4,234	0	0.01	0
			Aphanothece clathrata	0	345,028	172,514	0	0.27	0.14
			Chroococcus sp.	147,596	26,288	86,942	0.62	0.37	0.49
			Leptolyngbya sp.	65,283	70,648	67,966	0.62	0.44	0.53
			Microcystis flos-aquae	0	65,720	32,860	0	4.30	2.15
			Pseudanabaena sp.	36,899	0	18,449	1.04	0	0.52
		Euglenophyceae	*Phacus* sp.	0	141	71	0	0.45	0.22
			Trachelomonas sp.	142	0	71	1.16	0	0.58
		Dinophyceae	*Amphidinium* sp.	8,515	1,643	5,079	10.27	2.18	6.23
			Peridinium sp.	0	141	71	0	0.77	0.38
29-Jul-13	PL-3	Bacillariophyceae	*Achnanthidium* spp.	0	1,688	844	0	0.20	0.10
			Asterionella formosa	78	6,753	3,415	0.06	4.01	2.03
			Cyclotella spp.	34,439	142	17,291	44.91	0.65	22.78

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
29-Jul-13	PL-3	Bacillariophyceae	*Eunotia* sp.	142	0	71	1.44	0	0.72
			Fragilaria spp.	284	0	142	0.10	0	0.05
			Navicula sp.	0	142	71	0	0.38	0.19
			Nitzschia spp.	1,325	142	733	0.39	0.26	0.32
			Tabellaria sp.	0	2,987	1,494	0	13.04	6.52
		Chlorophyceae	*Ankistrodesmus falcatus*	569	569	569	0.02	0.03	0.02
			Botryococcus protuberans	5,832	0	2,916	0.26	0	0.13
			Chlamydomonas sp.	11,921	0	5,961	1.35	0	0.67
			Chlorella ellipsoidea	11,921	1,688	6,805	0.69	0.88	0.79
			Chlorogonium sp.	7,947	10,130	9,039	3.00	82.87	42.93
			Cosmarium sp.	284	284	284	9.25	6.62	7.94
			Crucigenia tetrapedia	21,193	20,259	20,726	21.19	20.26	20.73
			Crucigeniella rectangularis	0	9,957	4,978	0	4.80	2.40
			Elakatothrix gelatinosa	1,325	10,130	5,727	0.44	1.93	1.19
			Gonatozygon monotaenium	91	103	97	3.88	5.66	4.77
			Monoraphidium contortum	1,325	0	662	0.02	0	0.01
			Monoraphidium komarkovae	142	569	356	0	0.06	0.03
			Monoraphidium tortile	7,947	142	4,045	0.51	0.45	0.48
			Oocystis sp.	5,298	284	2,791	1.63	0.12	0.87
			Quadrigula closterioides	1,138	5,121	3,129	0.41	2.12	1.27
			Roya sp.	0	142	71	0	0.18	0.09
			Scenedesmus sp.	0	6,753	3,377	0	0.19	0.10
			Sphaerocystis planktonica	0	5,121	2,560	0	1.16	0.58
			Sphaerocystis sp.	0	40,519	20,259	0	8.95	4.48
			Staurastrum sp.	142	0	71	0.35	0	0.18
			Teilingia granulata	569	0	284	0.97	0	0.48
			Tetrastrum triangulare	0	6,753	3,377	0	0.76	0.38
		Chrysophyceae	*Bitrichia chodatii*	1,325	0	662	27.26	0	13.63
			Dinobryon divergens	0	478	239	0	2.96	1.48
			Mallomonas insignis	0	142	142	0	0.63	0.63
			Mallomonas sp.	9,272	15,194	12,233	10.49	18.33	14.41
			Ochromonas sp.	188,090	222,852	205,471	56.69	58.44	57.56

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
29-Jul-13	PL-3	Cryptophyceae	*Cryptomonas* sp.	142	1,688	915	0.34	3.29	1.81
			Plagioselmis nannoplanctica	76,825	143,503	110,164	8.43	15.29	11.86
			Rhodomonas sp.	1,325	0	662	3.20	0	1.60
		Cyanobacteria	*Anabaena circinalis*	24,996	16,487	20,741	5.34	3.68	4.51
			Anabaena sp.	5,522	478	3,000	0.53	0.04	0.29
			Aphanothece clathrata	26,492	42,672	34,582	0.09	0.27	0.18
			Chroococcus sp.	0	27,012	13,506	0	0.38	0.19
			Gloeothece linearis	0	6,753	3,377	0	0.25	0.13
			Leptolyngbya sp.	63,580	1,629	32,604	0.40	0.03	0.21
			Woronichinia sp.	52,983	8,534	30,759	0.33	0.05	0.19
		Dinophyceae	*Amphidinium* sp.	7,947	1,688	4,818	6.55	1.39	3.97
			Ceratium hirundinella	13	0	6	1.35	0	0.67
			Peridinium sp.	1,325	0	662	5.39	0	2.70
29-Jul-13	PL-4	Bacillariophyceae	*Asterionella formosa*	21,832	0	10,916	7.73	0	3.86
			Cyclotella spp.	20,272	7,066	13,669	36.81	6.53	21.67
			Fragilaria spp.	143	114	129	0.04	0.05	0.04
			Navicula sp.	143	0	72	0.08	0	0.04
			Nitzschia spp.	13	0	7	1.12	0	0.56
			Tabellaria sp.	1,720	0	860	4.26	0	2.13
		Chlorophyceae	*Ankistrodesmus falcatus*	4,678	0	2,339	0.21	0	0.10
			Botryococcus braunii	24,950	0	12,475	0.47	0	0.24
			Botryococcus protuberans	5,160	114	2,637	0.30	0.01	0.15
			Chlamydomonas sp.	6,238	17,664	11,951	0.21	0.59	0.40
			Chlorella ellipsoidea	0	17,664	8,832	0	0.50	0.25
			Chlorogonium sp.	20,272	10,599	15,435	4.08	0.90	2.49
			Chlorotetraedron incus	0	1,766	883	0	0.06	0.03
			Cosmarium sp.	0	114	57	0	3.87	1.93
			Crucigenia tetrapedia	31,188	0	15,594	15.97	0	7.98
			Crucigeniella rectangularis	6,880	4,553	5,716	5.02	2.82	3.92
			Elakatothrix gelatinosa	18,713	911	9,812	6.35	0.05	3.20
			Euastrum pulchellum	143	0	72	0.41	0	0.20
			Gonatozygon monotaenium	143	21	82	6.38	0.15	3.27

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
29-Jul-13	PL-4	Chlorophyceae	*Monoraphidium arcuatum*	143	0	72	0	0	0
			Monoraphidium komarkovae	9,356	15,898	12,627	0.31	0.40	0.36
			Monoraphidium minutum	0	1,766	883	0	0.01	0
			Monoraphidium tortile	143	5,299	2,721	0.01	0.20	0.11
			Oocystis sp.	31,188	21,197	26,193	5.29	5.59	5.44
			Quadrigula closterioides	14,906	2,276	8,591	3.87	0.43	2.15
			Roya sp.	0	114	57	0	0.05	0.03
			Scenedesmus sp.	0	455	228	0	0.02	0.01
			Sphaerocystis planktonica	2,293	911	1,602	0.91	0.20	0.55
			Sphaerocystis sp.	31,188	0	15,594	8.36	0	4.18
			Staurastrum sp.	0	114	57	0	0.49	0.25
			Teilingia granulata	0	186	93	0	0.26	0.13
			Tetrastrum triangulare	0	7,066	3,533	0	3.70	1.85
			Xanthidium antilopaeum	0	10	5	0	5.60	2.80
		Chrysophyceae	*Bitrichia chodatii*	7,797	0	3,899	1.30	0	0.65
			Chrysocapsella planctonica	6,238	0	3,119	1.12	0	0.56
			Dinobryon divergens	1,290	228	759	5.75	0.70	3.23
			Mallomonas insignis	1,559	1,766	1,663	1.25	2.24	1.75
			Mallomonas sp.	6,238	0	3,119	29.26	0	14.63
			Ochromonas sp.	143,465	233,169	188,317	30.78	42.39	36.58
		Cryptophyceae	*Cryptomonas* sp.	9,356	10,599	9,977	10.08	6.75	8.41
			Plagioselmis nannoplanctica	135,668	141,314	138,491	17.59	12.83	15.21
		Cyanobacteria	*Anabaena circinalis*	30,412	23,404	26,908	6.50	5.23	5.86
			Anabaena sp.	964	228	596	0.09	0.01	0.05
			Aphanocapsa elachista	374,256	105,986	240,121	0.66	0.44	0.55
			Aphanothece clathrata	0	1,242	621	0	0.01	0
			Gloeothece linearis	18,713	0	9,356	0.31	0	0.15
			Leptolyngbya sp.	300	0	150	0	0	0
			Merismopedia sp.	74,851	113,052	93,951	0.25	1.77	1.01
			Woronichinia naegeliana	62,376	0	31,188	0.39	0	0.20
		Euglenophyceae	*Trachelomonas* sp.	0	1,766	883	0	8.88	4.44

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
29-Jul-13	PL-4	Dinophyceae	*Amphidinium* sp.	4,678	3,533	4,106	2.94	1.30	2.12
			Ceratium hirundinella	0	10	5	0	1.71	0.86
		Xanthophyceae	*Tetraedriella jovetti*	0	1,766	883	0	1.06	0.53
14-Aug-13	PL-1	Bacillariophyceae	*Asterionella formosa*	1,234	579	907	0.72	0.32	0.52
			Cyclotella spp.	3,390	0	1,695	0.86	0	0.43
			Fragilaria spp.	238	354	296	0.07	0.11	0.09
			Nitzschia spp.	119	0	59	0.01	0	0.01
			Tabellaria sp.	259	193	226	0.75	0.59	0.67
		Chlorophyceae	*Chlamydomonas* sp.	20,339	9,592	14,965	9.13	1.72	5.43
			Chlorella ellipsoidea	10,169	3,197	6,683	1.27	0.46	0.86
			Chlorotetraedron incus	0	3,197	1,599	0	0.57	0.29
			Crucigenia tetrapedia	40,678	0	20,339	20.83	0	10.41
			Dictyosphaerium sp.	108,474	0	54,237	4.06	0	2.03
			Monoraphidium arcuatum	3,390	118	1,754	0.08	0	0.04
			Monoraphidium irregulare	0	118	59	0	0	0
			Monoraphidium komarkovae	356	944	650	0.01	0.04	0.03
			Roya sp.	119	118	118	0.02	0.02	0.02
			Scenedesmus denticulatus	0	12,789	6,395	0	1.76	0.88
			Scenedesmus sp.	0	12,789	6,395	0	0.38	0.19
			Staurodesmus triangularis	119	0	59	7.38	0	3.69
			Tetraedron muticum	3,390	0	1,695	0.25	0	0.13
		Chrysophyceae	*Dinobryon bavaricum*	6,780	0	3,390	8.85	0	4.42
			Dinobryon borgei	16,949	12,789	14,869	7.87	6.22	7.05
			Dinobryon divergens	6,780	3,197	4,988	5.85	2.69	4.27
			Dinobryon sp.	81,355	115,103	98,229	5.19	7.10	6.14
			Mallomonas insignis	6,780	0	3,390	1.94	0	0.97
			Ochromonas sp.	393,218	364,494	378,856	64.00	57.25	60.62
		Cryptophyceae	*Cryptomonas* sp. 2 ?	119	236	177	0.19	0.46	0.32
			Cryptomonas sp. 4 ?	0	6,395	3,197	0	5.02	2.51
			Plagioselmis nannoplanctica	298,303	297,350	297,827	31.25	24.54	27.89
			Rhodomonas sp.	0	9,592	4,796	0	37.82	18.91

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
14-Aug-13	PL-1	Cyanobacteria	*Anabaena circinalis*	0	5,899	2,949	0	0.76	0.38
			Anabaena sp.	2,679	5,684	4,182	0.22	0.51	0.36
			Aphanocapsa elachista	1,830,496	831,302	1,330,899	3.23	1.47	2.35
			Leptolyngbya sp.	151	1,823	987	0	0.06	0.03
			Merismopedia sp.	230,507	166,260	198,384	2.13	0.37	1.25
		Euglenophyceae	*Trachelomonas* sp.	16,949	9,592	13,270	85.20	10.99	48.09
		Dinophyceae	*Amphidinium* sp.	3,390	0	1,695	1.46	0	0.73
			Gymnodinium sp.	16,949	9,592	13,270	168.69	36.10	102.39
			Peridinium inconspicuum	6,780	3,197	4,988	3.69	1.81	2.75
			Peridinium umbonatum	27,118	118	13,618	52.32	0.68	26.50
14-Aug-13	PL-2	Bacillariophyceae	*Achnanthidium* spp.	0	7,144	3,572	0	0.59	0.30
			Asterionella formosa	90	145	118	0.05	0.08	0.06
			Cyclotella spp.	0	2,381	1,191	0	0.61	0.30
			Fragilaria spp.	110	123	117	0.03	0.05	0.04
			Gomphonema spp.	0	2,381	1,191	0	2.12	1.06
			Nitzschia spp.	2,599	246	1,422	1.59	0.10	0.85
			Tabellaria sp.	211	123	167	0.61	0.74	0.68
		Chlorophyceae	*Chlamydomonas* sp.	0	2,381	1,191	0	0.64	0.32
			Chlorella ellipsoidea	5,198	4,762	4,980	0.53	0.62	0.58
			Chlorotetraedron incus	2,599	4,762	3,681	0.09	0.68	0.39
			Cosmarium sp.	2,599	123	1,361	28.77	0.78	14.78
			Crucigenia tetrapedia	0	19,049	9,525	0	9.75	4.88
			Dictyosphaerium sp.	0	1,968	984	0	0.27	0.13
			Gonatozygon monotaenium	10	0	5	0.09	0	0.05
			Monoraphidium arcuatum	7,796	123	3,960	0.17	0	0.09
			Monoraphidium contortum	0	7,144	3,572	0	0.09	0.04
			Monoraphidium irregulare	5,198	4,762	4,980	0.12	0.13	0.12
			Monoraphidium komarkovae	221	369	295	0.01	0.01	0.01
			Monoraphidium tortile	2,599	4,762	3,681	0.05	0.18	0.11
			Oedogonium sp.	110	0	55	0.68	0	0.34
			Oocystis sp.	36,383	16,668	26,525	10.62	3.58	7.10
			Pediastrum tetras	0	19,049	9,525	0	7.54	3.77

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
14-Aug-13	PL-2	Chlorophyceae	*Quadrigula closterioides*	10,395	0	5,198	1.13	0	0.57
			Roya sp.	110	492	301	0.02	0.08	0.05
			Scenedesmus denticulatus	36,383	0	18,191	3.66	0	1.83
			Spondylosium planum	0	101	50	0	0.08	0.04
			Staurodesmus sp.	5,198	0	2,599	0.56	0	0.28
			Staurodesmus triangularis	0	123	62	0	18.11	9.06
			Teilingia granulata	2,599	0	1,299	1.43	0	0.71
			Zygnema sp.	0	246	123	0	4.56	2.28
		Chrysophyceae	*Bitrichia chodatii*	0	4,762	2,381	0	89.61	44.81
			Dinobryon borgei	2,599	2,381	2,490	0.98	1.11	1.04
			Dinobryon sp.	64,969	33,336	49,153	3.29	2.36	2.82
			Ochromonas sp.	543,139	490,521	516,830	74.44	67.50	70.97
		Cryptophyceae	*Cryptomonas* sp. 2 ?	7,796	0	3,898	4.50	0	2.25
			Plagioselmis nannoplanctica	18,191	14,287	16,239	1.56	1.41	1.48
		Cyanobacteria	*Anabaena* sp.	3,709	1,118	2,414	0.32	0.09	0.20
			Aphanocapsa elachista	805,613	24,602	415,107	1.42	0.04	0.73
			Aphanocapsa grevillei	129,938	0	64,969	2.45	0	1.22
			Leptolyngbya sp.	120	1,364	742	0	0.04	0.02
			Merismopedia sp.	228,690	623,866	426,278	0.63	1.51	1.07
			Oscillatoria sp.	0	119,058	59,529	0	45.82	22.91
		Dinophyceae	*Amphidinium* sp.	0	7,144	3,572	0	3.38	1.69
			Gymnodinium sp.	10,395	7,144	8,769	92.35	55.77	74.06
			Peridinium inconspicuum	0	2,381	1,191	0	1.16	0.58
			Peridinium umbonatum	10,395	14,287	12,341	20.37	39.22	29.80
15-Aug-13	PL-3	Bacillariophyceae	*Achnanthidium* spp.	4,193	5,439	4,816	0.48	0.76	0.62
			Asterionella formosa	236	186	211	0.12	0.09	0.11
			Cyclotella spp.	0	3,626	1,813	0	2.05	1.03
			Eunotia sp.	124	0	62	1.06	0	0.53
			Fragilaria spp.	124	114	119	0.04	0.03	0.04
			Navicula spp.	0	114	57	0	0.04	0.02
			Nitzschia spp.	0	114	57	0	0.02	0.01

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Aug-13	PL-3	Bacillariophyceae	*Stauroneis* spp.	2,097	0	1,048	4.37	0	2.19
			Tabellaria sp.	45	414	229	0.28	2.28	1.28
		Chlorophyceae	*Chlamydomonas* sp.	8,387	1,813	5,100	1.51	0.49	1.00
			Chlorella ellipsoidea	2,097	3,626	2,861	0.24	0.41	0.32
			Chlorotetraedron incus	2,097	1,813	1,955	0.07	0.40	0.24
			Cosmarium sp.	2,097	0	1,048	3.23	0	1.61
			Crucigenia fenestrata	2,097	0	1,048	0.72	0	0.36
			Crucigenia tetrapedia	20,966	14,504	17,735	7.19	4.97	6.08
			Elakatothrix gelatinosa	248	0	124	0.05	0	0.02
			Eudorina elegans	0	58,017	29,008	0	2,768.14	1,384.07
			Gonatozygon monotaenium	11	0	6	0.92	0	0.46
			Monoraphidium arcuatum	124	341	232	0	0.01	0
			Monoraphidium komarkovae	124	682	403	0.01	0.02	0.01
			Monoraphidium tortile	0	1,813	907	0	0.06	0.03
			Oocystis sp.	8,387	14,504	11,445	1.38	3.73	2.56
			Pediastrum tetras	8,387	0	4,193	4.06	0	2.03
			Roya sp.	495	341	418	0.10	0.06	0.08
			Scenedesmus denticulatus	4,193	7,252	5,723	0.66	0.76	0.71
			Scenedesmus quadricauda	0	7,252	3,626	0	0.96	0.48
			Scenedesmus sp.	0	3,626	1,813	0	0.15	0.08
			Tetraedron caudatum	0	1,813	907	0	0.16	0.08
		Chrysophyceae	*Bitrichia chodatii*	2,097	0	1,048	32.70	0	16.35
			Dinobryon borgei	2,097	0	1,048	1.05	0	0.53
			Dinobryon divergens	0	52	26	0	0.05	0.03
			Dinobryon sp.	81,769	56,204	68,986	5.14	3.41	4.27
			Mallomonas sp.	2,097	1,813	1,955	1.14	0.54	0.84
			Ochromonas sp.	335,464	293,709	314,586	50.68	44.96	47.82
		Cryptophyceae	*Cryptomonas* sp. 2 ?	4,193	7,252	5,723	2.23	6.72	4.47
			Cryptomonas sp. 4 ?	0	9,065	4,533	0	5.44	2.72
			Plagioselmis nannoplanctica	60,803	74,334	67,568	4.62	5.28	4.95
			Rhodomonas sp.	4,193	3,626	3,910	9.65	5.33	7.49

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Aug-13	PL-3	Cyanobacteria	*Anabaena circinalis*	0	21,756	10,878	0	2.46	1.23
			Anabaena sp.	2,251	1,551	1,901	0.20	0.12	0.16
			Aphanocapsa elachista	18,568	28,432	23,500	0.06	0.07	0.06
			Aphanocapsa grevillei	209,665	0	104,832	2.96	0	1.48
			Leptolyngbya sp.	1,463	155	809	0.04	0	0.02
			Merismopedia sp.	289,337	159,546	224,442	0.79	0.44	0.62
			Oscillatoria sp.	563	0	281	0.22	0	0.11
			Woronichinia naegeliana	314,497	11,373	162,935	7.53	0.48	4.00
		Euglenophyceae	*Trachelomonas* sp.	0	3,626	1,813	0	5.44	2.72
		Dinophyceae	*Gymnodinium* sp.	16,773	7,252	12,013	191.19	34.93	113.06
			Peridinium umbonatum	0	1,813	907	0	2.30	1.15
15-Aug-13	PL-5	Bacillariophyceae	*Achnanthidium* spp.	2,463	4,780	3,621	0.21	0.61	0.41
			Asterionella formosa	0	273	137	0	0.15	0.08
			Cyclotella spp.	4,926	7,170	6,048	1.25	2.73	1.99
			Fragilaria spp.	0	273	137	0	0.09	0.04
			Navicula spp.	132	0	66	0.05	0	0.02
			Nitzschia spp.	264	0	132	0.14	0	0.07
			Tabellaria sp.	48	75	61	0.23	0.21	0.22
		Chlorophyceae	*Chlamydomonas* sp.	4,926	4,780	4,853	1.32	1.82	1.57
			Chlorella ellipsoidea	7,388	0	3,694	0.72	0	0.36
			Chlorotetraedron incus	2,463	2,390	2,426	0.16	0.43	0.30
			Crucigenia tetrapedia	0	19,120	9,560	0	6.56	3.28
			Elakatothrix gelatinosa	264	0	132	0.09	0	0.05
			Monoraphidium arcuatum	0	137	68	0	0	0
			Monoraphidium contortum	7,388	4,780	6,084	0.07	0.02	0.04
			Monoraphidium irregulare	0	2,390	1,195	0	0.06	0.03
			Monoraphidium komarkovae	264	137	200	0.01	0	0.01
			Monoraphidium tortile	7,388	2,390	4,889	0.10	0.04	0.07
			Oocystis sp.	22,165	28,681	25,423	3.86	4.71	4.29
			Roya sp.	395	410	403	0.11	0.10	0.10
			Teilingia granulata	2,463	162	1,312	1.16	0.09	0.63
			Tetraedron triangulare	0	9,560	4,780	0	0.48	0.24

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Aug-13	PL-5	Chrysophyceae	*Dinobryon borgei*	4,926	7,170	6,048	2.92	4.01	3.47
			Dinobryon divergens	144	137	140	0.15	0.16	0.16
			Dinobryon sp.	96,050	90,822	93,436	4.78	4.57	4.67
			Kephyrion sp.	0	2,390	1,195	0	2.06	1.03
			Ochromonas sp.	396,515	391,968	394,242	59.09	53.90	56.50
		Cryptophyceae	*Cryptomonas* sp. 2 ?	4,926	7,170	6,048	6.16	5.23	5.70
			Plagioselmis nannoplanctica	12,314	7,170	9,742	1.13	0.66	0.90
			Rhodomonas sp.	2,463	14,340	8,402	3.74	28.21	15.98
		Cyanobacteria	*Anabaena circinalis*	27,091	40,631	33,861	3.55	5.32	4.43
			Anabaena sp.	419	3,728	2,074	0.03	0.44	0.24
			Aphanocapsa elachista	6,589	13,670	10,129	0.02	0.02	0.02
			Aphanocapsa grevillei	0	143,403	71,701	0	2.24	1.12
			Chroococcus dispersus	118,216	200,764	159,490	0.50	1.12	0.81
			Leptolyngbya sp.	29,554	1,243	15,398	1.12	0.04	0.58
			Merismopedia sp.	635,410	525,811	580,610	3.25	2.58	2.92
		Euglenophyceae	*Euglena* sp.	132	2,390	1,261	2.00	3.19	2.59
			Trachelomonas sp.	4,926	9,560	7,243	9.22	39.40	24.31
		Dinophyceae	*Gymnodinium* sp.	14,777	11,950	13,364	87.01	24.05	55.53
			Peridinium inconspicuum	0	2,390	1,195	0	1.55	0.77
			Peridinium umbonatum	2,463	2,390	2,426	4.83	5.58	5.20
15-Sep-13	PL-2	Bacillariophyceae	*Achnanthidium* spp.	6,532	3,346	4,939	0.38	0.36	0.37
			Asterionella formosa	79	181	130	0.05	0.09	0.07
			Aulacoseira sp.	578	0	289	0.41	0	0.20
			Cyclotella spp.	6,532	13,385	9,958	2.57	3.36	2.96
			Eunotia sp.	3,266	0	1,633	1.15	0	0.58
			Navicula spp.	0	142	71	0	0.30	0.15
		Chlorophyceae	*Ankistrodesmus falcatus*	0	711	356	0	0.03	0.02
			Chlorella ellipsoidea	9,798	13,385	11,591	1.00	1.04	1.02
			Crucigenia tetrapedia	0	13,385	6,692	0	2.89	1.45
			Elakatothrix gelatinosa	2,603	52	1,327	0.49	1.46	0.98
			Monoraphidium arcuatum	145	569	357	0	0.01	0.01
			Monoraphidium irregulare	3,266	3,346	3,306	0.11	0.08	0.10

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Sep-13	PL-2	Chlorophyceae	*Monoraphidium komarkovae*	2,603	1,565	2,084	0.12	0.07	0.09
			Monoraphidium minutum	13,064	6,692	9,878	0.55	0.31	0.43
			Monoraphidium tortile	289	3,346	1,818	0.01	0.08	0.04
			Oedogonium sp.	26	78	52	0.84	0.62	0.73
			Oocystis sp.	16,330	16,731	16,530	2.72	2.19	2.45
			Roya sp.	145	0	72	0.06	0	0.03
			Spondylosium planum	158	0	79	0.12	0	0.06
		Chrysophyceae	*Dinobryon bavaricum*	0	3,346	1,673	0	6.44	3.22
			Dinobryon divergens	22,861	3,346	13,104	30.50	3.41	16.95
			Dinobryon sp.	3,266	10,039	6,652	0.20	0.39	0.29
			Mallomonas insignis	0	6,692	3,346	0	1.96	0.98
			Ochromonas sp.	643,387	672,593	657,990	80.66	88.49	84.57
		Cryptophyceae	*Cryptomonas* sp. 2 ?	9,798	6,692	8,245	26.55	18.54	22.55
			Cryptomonas sp. 4 ?	145	142	143	0.15	0.12	0.14
			Plagioselmis nannoplanctica	218,817	207,467	213,142	14.65	14.77	14.71
		Cyanobacteria	*Anabaena circinalis*	186,158	0	93,079	26.77	0	13.38
			Anabaena sp.	526	517	522	0.08	0.06	0.07
			Aphanocapsa elachista	93,998	78,233	86,115	0.26	0.22	0.24
			Leptolyngbya sp.	16,330	43,501	29,915	0.51	1.11	0.81
			Merismopedia sp.	6,941	4,552	5,747	0.06	0.03	0.04
			Oscillatoria sp.	0	1,293	647	0	0.58	0.29
		Euglenophyceae	*Trachelomonas* sp.	6,532	0	3,266	3.88	0	1.94
		Dinophyceae	*Gymnodinium* sp.	3,266	6,692	4,979	17.44	15.15	16.30
			Peridinium inconspicuum	145	427	286	0.46	1.60	1.03
15-Sep-13	PL-3	Bacillariophyceae	*Achnanthidium* spp.	0	15,146	7,573	0	2.07	1.03
			Asterionella formosa	342	188	265	0.20	0.11	0.16
			Cyclotella spp.	22,268	22,719	22,494	10.58	6.50	8.54
			Eunotia sp.	13	0	7	0.16	0	0.08
			Fragilaria spp.	145	295	220	0.05	0.15	0.10
			Gomphonema spp.	289	0	145	0.23	0	0.12
			Navicula spp.	578	148	363	0.58	0.10	0.34

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Sep-13	PL-3	Bacillariophyceae	*Nitzschia* spp.	1,012	27	520	0.18	0.17	0.18
			Tabellaria sp.	302	0	151	1.82	0	0.91
		Chlorophyceae	*Chlorella ellipsoidea*	14,845	18,933	16,889	1.85	2.48	2.17
			Cosmarium sp.	289	0	145	5.06	0	2.53
			Crucigenia tetrapedia	0	15,146	7,573	0	7.75	3.88
			Desmodesmus denticulatus	14,845	0	7,423	2.72	0	1.36
			Elakatothrix gelatinosa	1,735	1,180	1,458	0.31	0.21	0.26
			Gonatozygon monotaenium	13	0	7	0.74	0	0.37
			Monoraphidium arcuatum	289	0	145	0.01	0	0
			Monoraphidium komarkovae	2,603	1,623	2,113	0.10	0.08	0.09
			Monoraphidium tortile	145	15,146	7,645	0	0.82	0.41
			Mougeotia sp.	0	107	54	0	2.36	1.18
			Oedogonium sp.	394	107	251	1.15	0.46	0.80
			Oocystis sp.	40,824	34,079	37,452	8.85	5.94	7.39
			Quadrigula closterioides	578	590	584	0.09	0.09	0.09
			Roya sp.	289	295	292	0.05	0.04	0.05
			Spondylosium planum	316	0	158	0.23	0	0.11
			Staurodesmus triangularis	0	295	148	0	19.78	9.89
			Teilingia granulata	0	885	443	0	0.62	0.31
		Chrysophyceae	*Bitrichia chodatii*	3,711	7,573	5,642	3.36	3.97	3.66
			Dinobryon bavaricum	22,268	7,573	14,920	47.42	13.41	30.41
			Dinobryon borgei	7,423	0	3,711	2.12	0	1.06
			Dinobryon divergens	158	3,787	1,972	0.14	4.02	2.08
			Dinobryon sp.	29,690	3,787	16,738	2.53	0.27	1.40
			Ochromonas sp.	723,699	783,819	753,759	88.50	92.59	90.54
			Pseudokephyrion spp.	11,134	0	5,567	1.46	0	0.73
		Cryptophyceae	*Cryptomonas* sp. 2 ?	289	590	440	0.61	1.35	0.98
			Cryptomonas sp. 4 ?	434	885	660	0.43	0.93	0.68
			Plagioselmis nannoplanctica	155,874	185,542	170,708	10.70	12.71	11.70
		Cyanobacteria	*Anabaena* sp.	263	2,012	1,137	0.03	0.22	0.12
			Aphanocapsa elachista	43,384	59,018	51,201	0.11	0.16	0.14
			Chroococcus dispersus	4,049	90,878	47,463	0.03	1.28	0.66

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Sep-13	PL-3	Cyanobacteria	*Leptolyngbya* sp.	1,183	939	1,061	0.04	0.03	0.03
			Merismopedia sp.	0	11,804	5,902	0	0.09	0.05
			Oscillatoria sp.	920	0	460	0.61	0	0.31
		Euglenophyceae	*Euglena* sp.	145	0	72	1.04	0	0.52
			Trachelomonas sp.	3,711	0	1,856	2.05	0	1.02
		Dinophyceae	*Gymnodinium* sp.	3,711	3,787	3,749	17.88	20.00	18.94
			Peridinium aciculiferum	289	148	218	2.01	1.16	1.59
			Peridinium inconspicuum	434	443	438	1.47	1.65	1.56
			Peridinium umbonatum	7,423	0	3,711	26.44	0	13.22
15-Sep-13	PL-4	Bacillariophyceae	*Achnanthidium* spp.	15,819	3,355	9,587	0.91	0.26	0.59
			Asterionella formosa	318	95	206	0.18	0.06	0.12
			Aulacoseira sp.	0	446	223	0	0.26	0.13
			Cyclotella spp.	31,637	16,776	24,207	13.70	4.27	8.98
			Eunotia sp.	26	149	88	0.21	0.09	0.15
			Fragilaria spp.	874	594	734	0.42	0.15	0.29
			Gomphonema spp.	146	0	73	0.12	0	0.06
			Navicula spp.	0	149	74	0	0.09	0.04
			Nitzschia spp.	437	743	590	0.24	0.25	0.24
			Tabellaria sp.	79	351	215	0.45	1.44	0.95
		Chlorophyceae	*Ankistrodesmus falcatus*	0	1,337	669	0	2.73	1.36
			Chlorella ellipsoidea	9,491	6,710	8,101	0.83	0.69	0.76
			Coelastrum microporum	0	53,683	26,841	0	9.64	4.82
			Cosmarium sp.	0	3,355	1,678	0	3.79	1.90
			Crucigenia tetrapedia	37,965	0	18,982	13.02	0	6.51
			Desmodesmus denticulatus	0	20,131	10,065	0	3.52	1.76
			Dictyosphaerium sp.	101,239	0	50,620	4.88	0	2.44
			Elakatothrix gelatinosa	3,788	1,783	2,785	0.88	0.41	0.64
			Kirchneriella lunaris	9,491	0	4,746	0.23	0	0.12
			Monoraphidium arcuatum	146	3,355	1,750	0.01	0.07	0.04
			Monoraphidium komarkovae	3,205	2,080	2,643	0.17	0.12	0.15
			Monoraphidium minutum	9,491	16,776	13,133	0.21	0.53	0.37
			Monoraphidium tortile	291	891	591	0.01	0.02	0.01

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Sep-13	PL-4	Chlorophyceae	*Oocystis* sp.	31,637	46,972	39,305	4.06	14.55	9.30
			Quadrigula closterioides	1,166	594	880	0.12	0.04	0.08
			Roya sp.	0	149	74	0	0.03	0.01
			Spondylosium planum	119	122	120	0.08	0.09	0.09
			Teilingia granulata	3,164	3,355	3,259	1.92	1.76	1.84
		Chrysophyceae	*Bitrichia chodatii*	9,491	0	4,746	3.62	0	1.81
			Chrysocapsella planctonica	0	40,262	20,131	0	9.30	4.65
			Dinobryon bavaricum	3,164	30,196	16,680	5.84	59.65	32.75
			Dinobryon divergens	199	392	295	0.22	0.42	0.32
			Dinobryon sp.	25,310	23,486	24,398	1.77	1.95	1.86
			Mallomonas insignis	6,327	149	3,238	2.10	0.06	1.08
			Ochromonas sp.	547,324	627,415	587,369	67.86	75.15	71.50
			Pseudokephyrion spp.	0	6,710	3,355	0	0.88	0.44
		Cryptophyceae	*Cryptomonas* sp. 2 ?	291	149	220	0.66	0.32	0.49
			Cryptomonas sp. 4 ?	583	446	514	0.59	0.40	0.50
			Plagioselmis nannoplanctica	167,677	154,337	161,007	11.13	10.56	10.85
			Rhodomonas sp.	3,164	0	1,582	5.57	0	2.79
		Cyanobacteria	*Anabaena* sp.	1,324	675	1,000	0.13	0.08	0.11
			Aphanocapsa elachista	87,414	29,713	58,563	0.26	0.05	0.16
			Aphanocapsa incerta	316,372	0	158,186	0.56	0	0.28
			Chroococcus dispersus	5,828	4,754	5,291	0.02	0.02	0.02
			Chroococcus sp.	0	13,421	6,710	0	0.11	0.05
			Leptolyngbya sp.	464	311	387	0.01	0.01	0.01
			Merismopedia sp.	101,239	0	50,620	0.81	0	0.40
			Woronichinia naegeliana	0	14,856	7,428	0	0.28	0.14
		Dinophyceae	*Amphidinium* sp.	3,164	0	1,582	3.71	0	1.85
			Gymnodinium sp.	12,655	10,065	11,360	47.62	60.90	54.26
			Peridinium aciculiferum	0	1,189	594	0	7.79	3.90
			Peridinium inconspicuum	0	149	74	0	0.45	0.22
			Peridinium umbonatum	6,327	6,710	6,519	31.81	23.91	27.86
		Xanthophyceae	*Tetraedriella jovetti*	3,164	0	1,582	1.24	0	0.62

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Sep-13	PL-5	Bacillariophyceae	*Achnanthidium* spp.	21,246	0	10,623	2.40	0	1.20
			Asterionella formosa	151	332	241	0.09	0.17	0.13
			Cyclotella spp.	35,410	32,489	33,949	18.51	10.21	14.36
			Eunotia sp.	0	13	6	0	0.11	0.05
			Fragilaria spp.	0	3,610	1,805	0	1.09	0.54
			Navicula spp.	0	141	70	0	0.05	0.03
			Nitzschia spp.	13	141	77	0.25	0.05	0.15
			Tabellaria sp.	75	0	38	0.41	0	0.21
		Chlorophyceae	*Chlorella ellipsoidea*	7,082	0	3,541	0.72	0	0.36
			Cosmarium sp.	0	3,610	1,805	0	4.47	2.24
			Crucigenia tetrapedia	28,328	0	14,164	6.12	0	3.06
			Dictyosphaerium sp.	2,208	0	1,104	0.12	0	0.06
			Elakatothrix gelatinosa	1,104	844	974	0.21	0.18	0.20
			Euastrum elegans	3,541	0	1,770	7.81	0	3.90
			Monoraphidium arcuatum	138	141	139	0	0	0
			Monoraphidium komarkovae	3,449	2,813	3,131	0.15	0.13	0.14
			Monoraphidium minutum	10,623	14,440	12,531	0.32	0.54	0.43
			Monoraphidium tortile	138	14,440	7,289	0	0.37	0.19
			Mougeotia sp.	3,541	0	1,770	9.18	0	4.59
			Oedogonium sp.	38	90	64	0.12	0.32	0.22
			Oocystis sp.	24,787	43,319	34,053	4.80	6.44	5.62
			Quadrigula closterioides	2,208	0	1,104	0.14	0	0.07
			Roya sp.	552	703	628	0.13	0.15	0.14
			Spondylosium planum	401	422	412	0.27	0.32	0.29
			Staurodesmus triangularis	0	141	70	0	10.91	5.46
			Teilingia excavata	7,082	358	3,720	2.37	0.21	1.29
		Chrysophyceae	*Bitrichia chodatii*	3,541	0	1,770	1.35	0	0.68
			Chrysocapsella planctonica	28,328	0	14,164	4.54	0	2.27
			Dinobryon bavaricum	49,574	32,489	41,031	81.40	45.28	63.34
			Dinobryon divergens	138	102	120	0.11	0.09	0.10
			Dinobryon sp.	31,869	36,099	33,984	3.00	2.54	2.77
			Mallomonas insignis	138	3,610	1,874	0.06	0.80	0.43

Table B-7 Phytoplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (cells/L)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Sep-13	PL-5	Chrysophyceae	*Ochromonas* sp.	555,932	660,608	608,270	66.19	77.56	71.88
			Pseudokephyrion spp.	3,541	3,610	3,575	0.44	0.47	0.46
		Cryptophyceae	*Cryptomonas* sp. 2 ?	31,869	281	16,075	50.46	0.66	25.56
			Cryptomonas sp. 4 ?	17,705	281	8,993	13.89	0.29	7.09
			Plagioselmis nannoplanctica	219,540	198,543	209,042	15.64	14.33	14.98
			Rhodomonas sp.	3,541	0	1,770	5.47	0	2.74
		Cyanobacteria	*Anabaena* sp.	1,631	1,598	1,615	0.18	0.15	0.16
			Aphanocapsa elachista	75,887	35,165	55,526	0.23	0.06	0.15
			Aphanocapsa incerta	0	541,482	270,741	0	0.96	0.48
			Aphanothece clathrata	495,735	0	247,868	1.05	0	0.52
			Leptolyngbya sp.	401	345	373	0.01	0.01	0.01
			Merismopedia sp.	0	57,758	28,879	0	0.46	0.23
			Oscillatoria sp.	1,104	1,279	1,191	0.35	0.43	0.39
		Dinophyceae	*Peridinium aciculiferum*	17,705	0	8,852	219.63	0	109.82
			Peridinium inconspicuum	414	281	348	1.42	0.94	1.18
			Peridinium umbonatum	3,541	563	2,052	10.47	2.65	6.56
			Peridinium willei	138	0	69	6.14	0	3.07

Notes: Samples were analyzed by EcoAnalysts, Inc. Abundance values are rounded to the nearest whole number.Numbers next to genus names (e.g., *Cryptomonas* sp. 2) are unique species identifiers; (?) indicates uncertainty in taxonomic identification.

cells/L = number of cells per litre; mg/m3 = milligrams per cubic metre; Late Spring = July; Summer = August; Fall = September; sp. = single species; spp. = multiple species.

Table B-8 Summary of Phytoplankton Community Data for Lakes in the Jay Project Area, 2013

Basin	Waterbody	Station	Sampling Period	Total Abundance (cells/L)	Total Biomass (mg/m^3)	Taxonomic Richness (# of taxa)	Relative Abundance (%)								Relative Biomass (%)							
							Bacillariophyceae	Chlorophyceae	Chrysophyceae	Cryptophyceae	Cyanobacteria	Euglenophyceae	Dinophyceae	Xanthophyceae	Bacillariophyceae	Chlorophyceae	Chrysophyceae	Cryptophyceae	Cyanobacteria	Euglenophyceae	Dinophyceae	Xanthophyceae
Lac du Sauvage	Lac du Sauvage	Aa-1	Late Spring	396,936	220	31	5	7	56	1	28	0	3	0	13	16	34	10	2	0	24	0
			Summer	1,020,835	121	23	1	1	92	0	5	0	0	0	6	4	77	0	5	3	6	0
			Fall	526,718	217	31	7	5	66	16	2	0	4	0	13	3	24	6	1	0	53	0
		Ab-1	Late Spring	352,382	282	27	9	6	69	3	10	0	3	0	11	44	31	6	0	0	7	0
			Summer	447,222	162	28	1	5	86	3	4	0	1	0	3	12	81	1	1	0	2	0
			Fall	724,536	263	40	11	2	78	5	1	0	3	0	17	4	30	3	1	1	44	0
		Ac-1	Late Spring	363,584	134	25	10	7	72	2	10	0	0	0	20	9	54	15	1	0	0	0
			Summer	582,854	156	24	0	4	88	5	2	0	1	0	2	18	68	2	1	0	10	0
			Fall	876,678	379	32	11	2	72	4	8	0	3	0	20	8	28	2	2	0	39	0
		Ac-4	Late Spring	621,709	219	26	4	4	67	0	24	0	1	0	9	6	77	0	3	0	5	0
			Summer	672,976	164	31	1	5	65	3	25	0	1	0	4	39	27	2	1	1	27	0
			Fall	672,455	354	39	12	6	63	5	10	0	4	0	22	4	21	5	0	0	47	0
		Ac-7	Late Spring	454,643	287	31	0	8	63	1	26	0	2	0	2	11	75	3	1	0	9	0
			Summer	504,602	1,548	28	2	4	88	4	1	0	1	0	0	3	96	0	0	0	0	0
			Fall	712,630	251	41	10	5	54	6	21	0	3	0	23	10	25	4	1	1	37	0
		Ad-1	Late Spring	398,648	322	30	1	21	65	2	9	0	2	0	2	55	27	7	1	0	8	0
			Summer	707,847	157	24	1	2	64	3	27	0	3	0	10	2	40	2	1	4	40	0
			Fall	725,883	378	43	7	8	73	8	2	0	2	0	14	10	44	7	0	2	23	0
		Ae-1	Late Spring	391,942	156	23	1	13	67	0	16	0	3	0	2	22	27	4	6	0	38	0
			Summer	1,008,336	650	33	18	7	59	3	13	0	1	0	11	70	15	0	0	0	4	0
			Fall	782,124	282	46	10	4	73	8	2	0	2	0	16	6	39	10	1	1	26	0
	Duchess Lake	Af-1	Late Spring	799,701	331	29	0	22	33	0	43	0	2	0	1	47	12	2	12	0	26	0
			Summer	1,151,179	619	26	1	15	74	5	3	0	2	0	1	63	17	1	1	1	16	0
			Fall	1,364,980	671	37	2	3	79	8	6	0	3	0	2	14	51	5	1	1	26	0
		Af-7	Late Spring	967,023	324	40	1	17	26	1	53	0	1	0	3	15	24	15	18	1	23	0
			Summer	1,193,123	3,193	31	1	12	72	3	10	0	3	0	0	91	3	0	0	0	6	0
			Fall	1,501,246	619	35	1	4	79	9	5	0	2	0	1	8	54	7	1	0	30	0
	Lake Af1	Af-10	Late Spring	5,767,686	1,219	43	0	17	5	0	77	0	0	0	2	36	9	2	42	0	9	1
			Summer	4,514,544	1,197	44	1	19	20	1	59	0	1	0	1	54	8	2	17	1	16	0
			Fall	1,516,269	260	51	2	14	37	1	46	0	1	0	5	22	34	1	24	1	13	1
	Lake E1	E-L1-1	Late Spring	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			Summer	971,318	239	37	1	11	71	7	7	1	2	0	1	10	32	5	2	4	46	0
			Fall	933,153	121	35	1	7	43	2	45	0	1	0	4	14	44	12	5	0	20	1

Table B-8 Summary of Phytoplankton Community Data for Lakes in the Jay Project Area, 2013

Basin	Waterbody	Station	Sampling Period	Total Abundance (cells/L)	Total Biomass (mg/m^3)	Taxonomic Richness (# of taxa)	Relative Abundance (%)								Relative Biomass (%)							
							Bacillariophyceae	Chlorophyceae	Chrysophyceae	Cryptophyceae	Cyanobacteria	Euglenophyceae	Dinophyceae	Xanthophyceae	Bacillariophyceae	Chlorophyceae	Chrysophyceae	Cryptophyceae	Cyanobacteria	Euglenophyceae	Dinophyceae	Xanthophyceae
Lac de Gras	Paul Lake	PL-1	Late Spring	1,013,505	361	38	1	13	32	16	36	0	1	0	3	31	26	9	28	0	3	0
			Summer	2,512,095	344	29	0	5	20	12	61	1	1	0	1	7	24	14	1	14	39	0
			Fall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		PL-2	Late Spring	1,235,889	176	39	1	6	28	15	49	0	0	0	4	29	27	13	23	0	4	0
			Summer	1,695,820	306	38	0	6	34	1	57	0	2	0	1	16	39	1	9	0	35	0
			Fall	1,200,015	189	28	1	5	57	18	18	0	0	0	2	4	56	20	8	1	9	0
		PL-3	Late Spring	596,621	239	43	4	16	37	19	23	0	1	0	14	38	37	6	2	0	3	0
			Summer	1,110,659	1,620	39	1	8	35	7	48	0	1	0	0	86	4	1	0	0	7	0
			Fall	199,339	224	40	3	7	67	14	9	0	1	0	5	14	58	6	1	1	16	0
		PL-4	Late Spring	941,904	167	46	3	17	21	16	43	0	0	0	17	25	34	14	5	3	2	0
			Summer	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			Fall	1,355,672	263	44	3	14	49	12	21	0	1	0	4	12	44	6	0	0	34	0
		PL-5	Late Spring	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			Summer	1,493,227	201	32	1	4	33	2	58	1	1	0	1	5	33	11	5	13	31	0
			Fall	1,693,260	360	39	3	5	42	14	36	0	1	0	5	8	39	14	1	0	34	0

Note: Samples were analyzed by EcoAnalysts, Inc.

cells/L = number of cells per litre; mg/m^3 = milligrams per cubic metre; # = number; % = percent; — = not sampled; Late Spring = July; Summer = August; Fall = September.

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
24-Jul-13	Aa-1	Cladocera	*Bosmina longirostris*	2,428	3,640	3,034	1,879	2,452	2,166
			Daphnia sp.	63	44	53	251	175	213
			Holopedium gibberum	720	592	656	580	472	526
		Copepod nauplii	Copepoda - nauplii	329	1,096	713	934	3,114	2,024
		Calanoida	Calanoida - copepodites	63	175	119	219	612	415
			Epischura nevadensis	0	22	11	0	436	218
		Cyclopoida	Cyclopoida - copepodites	313	0	157	531	0	265
			Cyclopoida	0	22	11	0	94	47
		Rotifera	*Asplanchna priodonta*	110	219	164	77	153	115
			Collotheca mutabilis	439	767	603	39	68	53
			Conochilus unicornis	1,425	2,412	1,919	272	269	270
			Filinia terminalis	548	110	329	415	83	249
			Gastropus stylifer	767	987	877	263	338	301
			Kellicottia longispina	15,569	22,915	19,242	160	235	198
			Keratella cochlearis	7,675	9,429	8,552	61	72	66
			Ploesoma sp.	987	1,864	1,425	41	78	60
			Polyarthra major	439	658	548	332	498	415
			Synchaeta stylata	110	0	55	5	0	2
23-Jul-13	Ab-1	Cladocera	*Bosmina longirostris*	741	1,430	1,085	546	1,139	843
			Daphnia longiremis	0	131	66	0	159	79
			Daphnia sp.	81	0	40	323	0	161
			Holopedium gibberum	191	358	274	145	611	378
		Copepod nauplii	Copepoda - nauplii	381	477	429	1,083	1,354	1,218
		Calanoida	Calanoida - copepodites	73	262	168	256	915	585
			Epischura nevadensis	7	0	4	146	0	73
		Cyclopoida	Cyclopoida - copepodites	249	536	393	591	832	712
			Diacyclops thomasi	191	358	274	934	2,165	1,549
		Rotifera	*Asplanchna priodonta*	1,144	2,979	2,062	801	2,435	1,618
			Collotheca mutabilis	572	358	465	51	32	41
			Conochilus unicornis	2,097	2,145	2,121	265	601	433
			Filinia terminalis	191	238	215	144	180	162
			Gastropus stylifer	286	715	501	98	245	172

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
23-Jul-13	Ab-1	Rotifera	*Kellicottia longispina*	16,589	40,281	28,435	170	414	292
			Keratella cochlearis	2,574	6,435	4,505	20	56	38
			Ploesoma sp.	0	119	60	0	5	3
			Polyarthra major	286	953	620	217	722	469
20-Jul-13	Ac-1	Cladocera	*Bosmina longirostris*	514	521	517	332	358	345
			Chydorus sphaericus	10	0	5	29	0	15
			Daphnia longiremis	67	82	74	81	99	90
			Holopedium gibberum	314	539	427	537	1,033	785
		Copepod nauplii	Copepoda - nauplii	457	183	320	1,297	519	908
		Calanoida	Calanoida - copepodites	476	347	412	1,033	632	832
		Cyclopoida	Cyclopoida - copepodites	219	274	247	344	430	387
			Diacyclops thomasi	371	329	350	1,938	1,612	1,775
		Rotifera	*Asplanchna priodonta*	799	1,827	1,313	560	1,279	919
			Collotheca mutabilis	0	91	46	0	8	4
			Conochilus unicornis	6,967	6,487	6,727	2,796	904	1,850
			Filinia terminalis	228	91	160	173	69	121
			Gastropus stylifer	114	365	240	39	125	82
			Kellicottia longispina	20,558	18,913	19,735	211	194	203
			Keratella cochlearis	4,112	7,035	5,573	36	60	48
			Ploesoma sp.	228	0	114	10	0	5
			Polyarthra major	457	914	685	346	692	519
			Synchaeta stylata	0	91	46	0	4	2
21-Jul-13	Ac-4	Cladocera	*Bosmina longirostris*	688	678	683	564	610	587
			Chydorus sphaericus	10	10	10	30	30	30
			Daphnia longiremis	130	90	110	157	109	133
			Holopedium gibberum	369	339	354	605	619	612
		Copepod nauplii	Copepoda - nauplii	299	399	349	849	1,132	991
		Calanoida	Calanoida - copepodites	339	339	339	1,183	1,183	1,183
		Cyclopoida	Cyclopoida - copepodites	269	339	304	423	532	477
			Diacyclops thomasi	429	538	483	2,812	3,238	3,025
		Rotifera	*Asplanchna priodonta*	1,794	2,193	1,993	1,256	1,535	1,395
			Collotheca mutabilis	100	199	150	9	18	13

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
21-Jul-13	Ac-4	Rotifera	*Conochilus unicornis*	3,688	2,791	3,239	514	498	506
			Filinia terminalis	100	0	50	75	0	38
			Gastropus stylifer	498	598	548	171	205	188
			Kellicottia longispina	38,573	21,729	30,151	396	223	310
			Keratella cochlearis	8,771	4,585	6,678	75	37	56
			Polyarthra major	0	299	150	0	226	113
20-Jul-13	Ac-7	Cladocera	*Bosmina longirostris*	902	581	742	775	432	604
			Chydorus sphaericus	0	7	3	0	20	10
			Daphnia longiremis	148	78	113	180	95	137
			Holopedium gibberum	320	104	212	407	179	293
		Copepod nauplii	Copepoda - nauplii	457	457	457	1,297	1,297	1,297
		Calanoida	Calanoida - copepodites	240	183	211	837	638	737
		Cyclopoida	Cyclopoida - copepodites	194	209	201	305	353	329
			Diacyclops thomasi	388	294	341	2,264	1,957	2,110
		Rotifera	*Asplanchna priodonta*	3,289	1,645	2,467	2,302	1,240	1,771
			Collotheca mutabilis	183	183	183	16	16	16
			Conochilus unicornis	9,319	6,670	7,995	1,212	1,134	1,173
			Filinia terminalis	183	640	411	138	484	311
			Gastropus stylifer	365	91	228	125	31	78
			Kellicottia longispina	29,055	20,466	24,760	299	210	254
			Keratella cochlearis	5,117	1,279	3,198	41	13	27
			Ploesoma sp.	0	91	46	0	4	2
			Polyarthra major	274	548	411	207	415	311
25-Jul-13	Ad-1	Cladocera	*Bosmina longirostris*	2,376	2,079	2,227	1,370	1,358	1,364
			Daphnia longiremis	548	594	571	663	719	691
			Holopedium gibberum	2,467	3,385	2,926	1,616	1,876	1,746
		Copepod nauplii	Copepoda - nauplii	548	831	690	1,557	2,361	1,959
		Calanoida	Calanoida - copepodites	4,386	5,286	4,836	13,457	15,662	14,559
			Epischura sp.	0	59	30	0	1,180	590
		Cyclopoida	Cyclopoida - copepodites	183	356	270	287	559	423
			Diacyclops thomasi	320	831	576	1,567	4,074	2,820

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
25-Jul-13	Ad-1	Rotifera	*Asplanchna priodonta*	4,477	2,969	3,723	3,134	2,079	2,606
			Collotheca mutabilis	274	238	256	24	21	23
			Conochilus unicornis	14,436	12,590	13,513	2,958	2,427	2,693
			Filinia terminalis	183	356	270	138	270	204
			Gastropus stylifer	822	1,069	946	282	367	324
			Kellicottia longispina	61,399	47,392	54,395	631	487	559
			Keratella cochlearis	6,853	12,947	9,900	57	104	81
			Ploesoma sp.	365	238	302	15	10	13
			Polyarthra major	274	594	434	207	450	329
			Synchaeta stylata	91	119	105	4	5	4
25-Jul-13	Ae-1	Cladocera	*Bosmina longirostris*	806	648	727	543	374	458
			Daphnia longiremis	116	140	128	141	169	155
			Holopedium gibberum	257	439	348	283	455	369
		Copepod nauplii	Copepoda - nauplii	100	100	100	283	283	283
		Calanoida	Calanoida - copepodites	390	419	405	1,031	1,298	1,164
			Epischura sp.	25	80	52	495	1,585	1,040
		Cyclopoida	Cyclopoida - copepodites	91	60	76	143	94	119
			Diacyclops thomasi	66	150	108	326	733	529
		Rotifera	*Asplanchna priodonta*	2,492	2,891	2,691	1,744	3,970	2,857
			Collotheca pelagica	797	698	748	5	4	4
			Conochilus unicornis	4,286	5,980	5,133	852	1,359	1,106
			Filinia terminalis	100	100	100	75	75	75
			Gastropus stylifer	698	199	449	239	68	154
			Kellicottia longispina	27,809	28,307	28,058	286	291	288
			Keratella cochlearis	3,090	2,492	2,791	25	25	25
			Ploesoma sp.	399	299	349	17	13	15
			Polyarthra major	100	0	50	75	0	38
			Synchaeta stylata	199	399	299	8	17	13
13-Aug-13	Aa-1	Cladocera	*Bosmina longirostris*	19,406	18,255	18,831	11,918	11,566	11,742
			Daphnia longiremis	1,233	1,398	1,316	1,492	1,380	1,436
			Holopedium gibberum	3,783	2,385	3,084	6,685	3,061	4,873
		Copepod nauplii	Copepoda - nauplii	6,332	6,414	6,373	17,982	18,216	18,099

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
13-Aug-13	Aa-1	Calanoida	Calanoida - copepodites	164	0	82	574	0	287
			Leptodiaptomus minutus	164	164	164	1,559	1,559	1,559
		Cyclopoida	Cyclopoida - copepodites	1,316	905	1,110	1,192	1,420	1,306
		Rotifera	*Collotheca* sp.	82	329	206	1	2	2
			Conochilus unicornis	2,796	2,302	2,549	599	645	622
			Filinia terminalis	82	0	41	62	0	31
			Gastropus stylifer	1,480	1,645	1,562	508	564	536
			Kellicottia longispina	34,619	37,990	36,305	356	390	373
			Keratella cochlearis	5,098	7,236	6,167	27	44	35
			Lecane mira	82	0	41	45	0	22
			Ploesoma hudsoni	905	1,480	1,192	37	61	49
			Polyarthra major	1,316	2,467	1,891	996	142	569
			Synchaeta stylata	1,480	2,138	1,809	62	90	76
			Trichotria tetractis	0	164	82	0	139	70
12-Aug-13	Ab-1	Cladocera	*Bosmina longirostris*	4,755	6,435	5,595	4,087	3,994	4,040
			Daphnia longiremis	1,859	1,430	1,645	2,226	1,923	2,075
			Holopedium gibberum	4,076	3,218	3,647	7,292	4,520	5,906
		Copepod nauplii	Copepoda - nauplii	429	834	632	1,218	2,369	1,794
		Calanoida	Calanoida - copepodites	72	0	36	250	0	125
			Leptodiaptomus minutus	358	238	298	3,389	2,260	2,824
		Cyclopoida	Cyclopoida - copepodites	72	179	125	112	281	196
			Diacyclops thomasi	572	834	703	2,803	4,088	3,445
		Rotifera	*Ascomorpha ovalis*	286	0	143	3	0	2
			Asplanchna priodonta	0	119	60	0	83	42
			Collotheca sp.	1,287	1,788	1,537	10	14	12
			Conochilus unicornis	2,002	2,860	2,431	373	482	428
			Gastropus stylifer	1,573	1,668	1,621	540	572	556
			Kellicottia longispina	34,179	28,483	31,331	351	293	322
			Keratella cochlearis	4,290	6,435	5,363	28	43	35
			Ploesoma hudsoni	286	238	262	12	10	11
			Polyarthra major	286	0	143	217	0	108

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
10-Aug-13	Ac-1	Cladocera	*Bosmina longirostris*	8,509	8,366	8,438	4,354	5,411	4,882
			Daphnia longiremis	3,146	2,288	2,717	4,151	2,552	3,351
			Holopedium gibberum	5,649	6,292	5,971	9,541	9,562	9,552
		Copepod nauplii	Copepoda - nauplii	858	858	858	2,437	2,437	2,437
		Calanoida	Calanoida - copepodites	72	143	107	250	499	374
			Epischura nevadensis	0	72	36	0	1,421	711
			Leptodiaptomus minutus	358	429	393	3,389	4,067	3,728
		Cyclopoida	Cyclopoida - copepodites	215	0	107	337	0	168
			Diacyclops thomasi	930	501	715	4,555	2,453	3,504
		Rotifera	*Asplanchna priodonta*	429	572	501	300	400	350
			Collotheca pelagica	1,716	2,431	2,074	10	14	12
			Conochilus unicornis	9,296	8,295	8,795	1,580	1,479	1,530
			Gastropus stylifer	715	1,144	930	245	392	319
			Kellicottia longispina	63,067	48,051	55,559	648	494	571
			Keratella cochlearis	7,436	9,868	8,652	49	71	60
			Ploesoma hudsoni	572	1,430	1,001	23	59	41
			Ploesoma truncatum	143	572	358	6	23	14
			Polyarthra major	0	143	72	0	108	54
			Synchaeta stylata	0	143	72	0	6	3
11-Aug-13	Ac-4	Cladocera	*Bosmina longirostris*	4,548	6,111	5,329	2,566	3,375	2,971
			Daphnia longiremis	2,492	2,747	2,620	3,516	4,050	3,783
			Holopedium gibberum	3,800	3,812	3,806	6,313	5,944	6,129
		Copepod nauplii	Copepoda - nauplii	1,495	1,121	1,308	4,246	3,185	3,715
		Calanoida	Calanoida - copepodites	187	0	93	652	0	326
			Epischura nevadensis	62	0	31	1,238	0	619
			Leptodiaptomus minutus	561	336	449	5,315	3,189	4,252
		Cyclopoida	Cyclopoida - copepodites	62	224	143	98	352	225
			Diacyclops thomasi	561	336	449	2,747	1,648	2,198
		Rotifera	*Asplanchna priodonta*	249	112	181	174	78	126
			Collotheca pelagica	997	2,355	1,676	6	13	10
			Conochilus unicornis	6,977	5,831	6,404	1,366	1,384	1,375
			Gastropus stylifer	1,620	1,906	1,763	556	654	605

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Aug-13	Ac-4	Rotifera	*Kellicottia longispina*	34,263	39,022	36,642	352	401	377
			Keratella cochlearis	6,728	10,540	8,634	45	76	60
			Ploesoma hudsoni	125	224	174	5	9	7
			Ploesoma truncatum	249	0	125	10	0	5
			Polyarthra major	374	561	467	283	424	354
			Synchaeta stylata	249	336	293	10	14	12
11-Aug-13	Ac-7	Cladocera	*Bosmina longirostris*	15,969	14,063	15,016	14,511	10,883	12,697
			Daphnia longiremis	5,482	2,264	3,873	10,669	4,252	7,461
			Holopedium gibberum	8,223	3,873	6,048	12,281	6,817	9,549
		Copepod nauplii	Copepoda - nauplii	1,549	953	1,251	4,400	2,708	3,554
		Calanoida	Calanoida - copepodites	119	119	119	416	416	416
			Leptodiaptomus minutus	238	238	238	2,260	2,260	2,260
		Cyclopoida	Cyclopoida - copepodites	119	179	149	187	281	234
			Diacyclops thomasi	834	596	715	4,088	2,920	3,504
		Rotifera	*Asplanchna priodonta*	119	477	298	83	334	209
			Collotheca pelagica	2,622	1,668	2,145	15	10	12
			Conochilus unicornis	9,057	8,700	8,878	2,576	2,035	2,306
			Filinia terminalis	0	238	119	0	180	90
			Gastropus stylifer	1,907	715	1,311	654	245	450
			Kellicottia longispina	55,058	33,369	44,214	566	343	454
			Keratella cochlearis	7,270	8,461	7,865	51	56	54
			Ploesoma hudsoni	358	477	417	15	20	17
			Polyarthra major	119	119	119	90	90	90
10-Aug-13	Ad-1	Cladocera	*Bosmina longirostris*	11,739	13,348	12,543	8,316	8,633	8,474
			Daphnia longiremis	3,694	3,814	3,754	5,711	4,440	5,076
			Holopedium gibberum	4,350	4,052	4,201	7,347	6,104	6,726
		Copepod nauplii	Copepoda - nauplii	1,788	1,430	1,609	5,077	4,061	4,569
		Calanoida	*Leptodiaptomus minutus*	0	298	149	0	2,824	1,412
		Cyclopoida	Cyclopoida - copepodites	417	536	477	655	842	748
			Diacyclops thomasi	179	238	209	876	1,168	1,022
		Rotifera	*Asplanchna priodonta*	1,192	715	953	834	501	667
			Collotheca pelagica	2,503	2,622	2,562	14	15	15

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
10-Aug-13	Ad-1	Rotifera	*Conochilus unicornis*	8,342	8,104	8,223	1,869	1,711	1,790
			Filinia terminalis	238	0	119	180	0	90
			Gastropus stylifer	1,073	2,145	1,609	368	736	552
			Kellicottia longispina	44,690	51,007	47,848	459	524	492
			Keratella cochlearis	9,415	7,508	8,461	60	54	57
			Ploesoma hudsoni	953	1,073	1,013	39	44	42
			Ploesoma truncatum	1,192	1,788	1,490	48	72	60
			Polyarthra major	119	0	60	90	0	45
			Synchaeta stylata	0	119	60	0	5	3
9-Aug-13	Ae-1	Cladocera	*Bosmina longirostris*	17,521	19,419	18,470	9,165	12,559	10,862
			Daphnia longiremis	2,214	4,048	3,131	3,137	5,561	4,349
			Holopedium gibberum	1,708	2,151	1,929	2,243	3,425	2,834
		Copepod nauplii	Copepoda - nauplii	1,392	1,012	1,202	3,952	2,874	3,413
		Calanoida	Calanoida - copepodites	0	190	95	0	662	331
			Leptodiaptomus minutus	316	316	316	2,998	2,998	2,998
		Cyclopoida	Cyclopoida - copepodites	190	253	221	298	397	348
			Diacyclops thomasi	253	316	285	1,240	1,550	1,395
		Rotifera	*Ascomorpha ovalis*	127	127	127	2	2	2
			Asplanchna priodonta	253	380	316	177	266	221
			Collotheca pelagica	3,163	2,024	2,593	18	12	15
			Conochilus unicornis	17,458	13,536	15,497	4,511	3,259	3,885
			Gastropus stylifer	1,012	1,265	1,139	347	434	391
			Kellicottia longispina	23,657	24,922	24,290	243	256	250
			Keratella cochlearis	10,500	8,097	9,298	74	57	65
			Ploesoma hudsoni	253	380	316	10	16	13
			Ploesoma truncatum	1,265	886	1,075	51	35	43
			Polyarthra major	506	127	316	383	96	239
			Synchaeta stylata	0	127	63	0	5	3
11-Sep-13	Aa-1	Cladocera	*Bosmina longirostris*	4,447	3,837	4,142	4,625	3,852	4,239
			Chydoridae	0	61	30	0	35	17
			Daphnia longiremis	5,177	4,447	4,812	5,528	6,612	6,070
			Holopedium gibberum	305	152	228	521	260	391

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Aa-1	Copepod nauplii	Copepoda - nauplii	914	731	822	2,595	2,076	2,335
		Calanoida	Calanoida - copepodites	0	91	46	0	319	159
		Cyclopoida	Cyclopoida - copepodites	1,279	1,035	1,157	1,166	897	1,032
			Diacyclops thomasi	30	30	30	149	149	149
		Rotifera	*Collotheca* sp.	305	183	244	2	1	2
			Conochilus unicornis	10,172	9,807	9,989	1,675	2,040	1,857
			Filinia terminalis	122	365	244	92	277	184
			Gastropus stylifer	365	305	335	125	104	115
			Kellicottia longispina	7,858	7,188	7,523	81	74	77
			Keratella cochlearis	4,386	4,264	4,325	28	27	27
			Lecane mira	122	0	61	66	0	33
			Lecane sp.	61	0	30	33	0	17
			Polyarthra major	2,436	2,497	2,467	1,844	1,891	1,867
			Synchaeta stylata	0	61	30	0	3	1
11-Sep-13	Ab-1	Cladocera	*Bosmina longirostris*	587	901	744	549	1,159	854
			Chydoridae	26	0	13	15	0	7
			Daphnia longiremis	861	1,344	1,103	1,162	1,710	1,436
			Holopedium gibberum	39	13	26	67	22	45
		Copepod nauplii	Copepoda - nauplii	2,075	2,075	2,075	5,894	5,894	5,894
		Calanoida	Calanoida - copepodites	0	13	7	0	46	23
			Epischura nevadensis	0	13	7	0	259	130
		Cyclopoida	Cyclopoida - copepodites	718	1,005	861	618	1,035	827
			Diacyclops thomasi	300	313	307	1,471	1,535	1,503
		Rotifera	*Ascomorpha ovalis*	78	39	59	1	0	1
			Asplanchna priodonta	39	78	59	27	55	41
			Collotheca sp.	431	666	548	3	5	4
			Conochilus unicornis	1,214	2,428	1,821	200	593	396
			Filinia terminalis	78	78	78	59	59	59
			Gastropus stylifer	196	352	274	67	121	94
			Kellicottia longispina	6,187	6,931	6,559	64	71	67
			Keratella cochlearis	1,175	901	1,038	7	6	6
			Lecane mira	0	39	20	0	21	11

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Ab-1	Rotifera	*Monostyla* sp.	0	39	20	0	33	17
			Ploesoma truncatum	0	39	20	0	2	1
			Polyarthra major	548	548	548	415	415	415
			Synchaeta stylata	744	744	744	31	31	31
11-Sep-13	Ac-1	Cladocera	*Alona* sp.	0	15	8	0	9	5
			Bosmina longirostris	141	693	417	127	696	412
			Chydoridae	3	15	9	2	9	5
			Chydorus sphaericus	1	0	1	4	0	2
			Daphnia longiremis	285	1,251	768	415	1,002	709
			Holopedium gibberum	10	60	35	16	103	60
		Copepod nauplii	Copepoda - nauplii	1,477	2,171	1,824	4,196	6,165	5,181
		Calanoida	Diaptomidae	0	15	8	0	33	17
			Epischura nevadensis	4	0	2	82	0	41
		Cyclopoida	Cyclopoida - copepodites	365	1,236	800	332	855	594
			Diacyclops thomasi	66	196	131	322	960	641
		Rotifera	*Ascomorpha ovalis*	0	121	60	0	1	1
			Asplanchna priodonta	90	181	136	63	127	95
			Collotheca sp.	302	965	633	2	7	5
			Conochilus unicornis	2,744	1,990	2,367	459	282	371
			Filinia terminalis	0	60	30	0	46	23
			Gastropus stylifer	90	362	226	31	124	78
			Kellicottia longispina	3,859	10,010	6,935	40	103	71
			Keratella cochlearis	633	1,327	980	5	9	7
			Lecane mira	30	121	75	16	65	41
			Monostyla sp.	60	0	30	51	0	26
			Ploesoma truncatum	0	60	30	0	2	1
			Polyarthra major	332	844	588	251	639	445
			Synchaeta stylata	181	1,447	814	8	61	34
			Trichotria tetractis	0	60	30	0	51	26

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Ac-4	Cladocera	*Acroperus harpae*	0	13	7	0	43	22
			Bosmina longirostris	673	654	663	777	835	806
			Daphnia longiremis	1,395	1,321	1,358	2,527	2,582	2,554
			Holopedium gibberum	12	39	26	21	67	44
		Copepod nauplii	Copepoda - nauplii	3,289	2,093	2,691	9,341	5,944	7,643
		Calanoida	*Epischura nevadensis*	12	13	13	248	260	254
		Cyclopoida	Cyclopoida - copepodites	723	733	728	696	510	603
			Diacyclops thomasi	349	196	273	1,709	962	1,335
		Rotifera	*Ascomorpha ovalis*	150	52	101	2	1	2
			Asplanchna priodonta	249	105	177	174	73	124
			Collotheca sp.	299	890	594	2	7	5
			Conochilus unicornis	1,744	1,570	1,657	227	317	272
			Filinia terminalis	299	105	202	226	79	153
			Gastropus stylifer	249	157	203	85	54	70
			Kellicottia longispina	8,522	7,640	8,081	88	79	83
			Keratella cochlearis	1,445	942	1,194	10	6	8
			Lecane mira	50	0	25	27	0	14
			Ploesoma truncatum	100	209	154	4	8	6
			Polyarthra major	797	471	634	604	357	480
			Synchaeta stylata	399	628	513	17	26	22
			Trichotria tetractis	0	52	26	0	44	22
11-Sep-13	Ac-7	Cladocera	*Alona* sp.	12	0	6	8	0	4
			Bosmina longirostris	797	797	797	905	1,009	957
			Chydoridae	12	12	12	7	7	7
			Chydorus sphaericus	12	0	6	38	0	19
			Daphnia longiremis	897	1,171	1,034	1,625	1,905	1,765
			Holopedium gibberum	37	75	56	64	128	96
		Copepod nauplii	Copepoda - nauplii	1,993	3,190	2,591	5,661	9,058	7,360
		Calanoida	*Epischura nevadensis*	25	0	12	495	0	248
		Cyclopoida	Cyclopoida - copepodites	461	623	542	478	516	497
			Cyclops strenuus	12	12	12	93	93	93
			Diacyclops thomasi	162	174	168	794	855	824

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
11-Sep-13	Ac-7	Rotifera	*Ascomorpha ovalis*	100	199	150	1	2	2
			Asplanchna priodonta	50	50	50	35	35	35
			Collotheca pelagica	598	449	523	3	3	3
			Conochilus unicornis	2,342	2,990	2,666	310	500	405
			Filinia terminalis	100	299	199	75	226	151
			Gastropus stylifer	498	399	449	171	137	154
			Kellicottia longispina	4,834	8,123	6,479	50	83	67
			Keratella cochlearis	1,844	2,193	2,018	18	22	20
			Lecane mira	0	50	25	0	27	14
			Monostyla sp.	50	399	224	42	338	190
			Ploesoma truncatum	100	150	125	4	6	5
			Polyarthra major	3,389	2,841	3,115	152	127	140
			Synchaeta stylata	299	199	249	13	8	10
			Trichotria tetractis	50	0	25	42	0	21
7-Sep-13	Ad-1	Cladocera	*Acroperus harpae*	13	0	6	41	0	21
			Bosmina longirostris	1,018	1,542	1,280	788	1,114	951
			Chydoridae	13	0	6	7	0	4
			Chydorus sphaericus	13	0	6	38	0	19
			Daphnia longiremis	1,055	868	962	882	781	832
			Holopedium gibberum	113	114	114	193	195	194
		Copepod nauplii	Copepoda - nauplii	2,412	1,279	1,846	6,850	3,633	5,242
		Calanoida	*Leptodiaptomus minutus*	0	11	6	0	108	54
		Cyclopoida	Cyclopoida - copepodites	930	411	670	923	382	653
			Diacyclops thomasi	101	57	79	492	280	386
		Rotifera	*Ascomorpha ovalis*	50	0	25	1	0	1
			Asplanchna priodonta	151	183	167	106	128	117
			Collotheca pelagica	503	457	480	3	3	3
			Conochilus unicornis	1,508	1,051	1,279	164	105	134
			Filinia terminalis	302	228	265	228	173	201
			Gastropus stylifer	201	183	192	69	63	66
			Kellicottia longispina	9,397	5,345	7,371	97	55	76
			Keratella cochlearis	1,508	3,563	2,535	10	23	17

Table B-9 Zooplankton Abundance and Biomass in Lac du Sauvage, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
7-Sep-13	Ad-1	Rotifera	*Lecane mira*	50	0	25	27	0	14
			Monostyla sp.	101	46	73	85	39	62
			Ploesoma truncatum	402	228	315	16	9	13
			Polyarthra major	553	457	505	418	346	382
			Synchaeta stylata	201	91	146	8	4	6
5-Sep-13	Ae-1	Cladocera	*Alona* sp.	0	8	4	0	5	2
			Bosmina longirostris	442	594	518	398	612	505
			Chydoridae	8	0	4	4	0	2
			Chydorus sphaericus	8	0	4	23	0	12
			Daphnia longiremis	624	799	712	713	750	731
			Holopedium gibberum	46	23	34	78	39	59
		Copepod nauplii	Copepoda - nauplii	1,218	1,157	1,188	3,460	3,287	3,373
		Calanoida	*Epischura nevadensis*	8	0	4	151	0	76
		Cyclopoida	Cyclopoida - copepodites	327	426	377	297	416	356
			Diacyclops thomasi	107	122	114	522	597	560
		Rotifera	*Ascomorpha ovalis*	122	61	91	1	1	1
			Asplanchna priodonta	61	183	122	43	128	85
			Collotheca pelagica	365	487	426	2	3	2
			Conochilus unicornis	1,827	2,985	2,406	255	468	361
			Filinia terminalis	61	0	30	46	0	23
			Gastropus stylifer	305	244	274	104	84	94
			Kellicottia longispina	7,492	5,969	6,731	77	61	69
			Keratella cochlearis	1,035	853	944	7	6	6
			Monostyla lunaris	61	122	91	52	103	77
			Ploesoma truncatum	122	305	213	5	12	9
			Polyarthra major	61	0	30	46	0	23
			Synchaeta stylata	183	244	213	8	10	9
			Trichotria tetractis	0	122	61	0	103	52

Notes: Samples were analyzed by EcoAnalysts, Inc. Values are rounded to the nearest whole number.
org/m^3 = number of organisms per cubic metre; mg/m^3 = milligrams per cubic metre; sp. = species.

Table B-10 Zooplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
22-Jul-13	Af-1	Cladocera	*Bosmina longirostris*	9,319	10,113	9,716	5,232	4,768	5,000
			Chydorus sphaericus	0	80	40	244	0	122
			Daphnia longiremis	914	720	817	410	496	453
			Holopedium gibberum	1,279	1,919	1,599	993	814	903
		Copepod nauplii	Copepoda - nauplii	365	640	503	1,816	1,038	1,427
		Calanoida	Calanoida - copepodites	137	240	188	837	478	658
		Rotifera	*Asplanchna priodonta*	2,741	5,117	3,929	3,582	1,919	2,750
			Collotheca pelagica	2,558	1,439	1,999	8	15	11
			Conochilus unicornis	27,776	31,819	29,797	8,809	5,521	7,165
			Euchlanis sp.	183	0	91	0	0	0
			Filinia terminalis	365	0	183	0	277	138
			Gastropus stylifer	3,837	4,637	4,237	1,590	1,316	1,453
			Kellicottia longispina	13,522	18,068	15,795	186	139	162
			Keratella cochlearis	5,665	9,434	7,549	69	41	55
			Ploesoma sp.	1,645	959	1,302	40	69	55
			Polyarthra major	365	320	343	242	277	259
			Synchaeta stylata	1,645	1,279	1,462	54	69	61
26-Jul-13	Af-7	Cladocera	*Bosmina longirostris*	3,401	7,226	5,314	3,457	2,003	2,730
			Daphnia longiremis	224	405	315	243	193	218
			Holopedium gibberum	766	1,308	1,037	721	394	557
		Copepod nauplii	Copepoda - nauplii	598	249	424	708	1,698	1,203
		Calanoida	Calanoida - copepodites	19	0	9	0	65	33
			Leptodiaptomus minutus	0	62	31	591	0	295
		Cyclopoida	*Diacyclops thomasi*	19	0	9	0	92	46
		Rotifera	*Asplanchna priodonta*	5,980	3,613	4,797	2,529	4,186	3,358
			Collotheca pelagica	2,841	3,239	3,040	18	16	17
			Conochilus unicornis	9,868	20,184	15,026	3,832	1,873	2,852
			Gastropus stylifer	2,243	3,613	2,928	1,239	769	1,004
			Kellicottia longispina	7,924	11,462	9,693	118	81	100
			Keratella cochlearis	7,176	5,482	6,329	37	50	44

Table B-10 Zooplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
26-Jul-13	Af-7	Rotifera	*Ploesoma* sp.	2,841	2,990	2,915	126	119	122
			Polyarthra major	1,196	623	910	472	905	689
			Synchaeta stylata	150	374	262	16	6	11
			Trichotria tetractis	0	125	62	106	0	53
8-Aug-13	Af-1	Cladocera	*Bosmina longirostris*	34,844	32,695	33,769	18,058	25,934	21,996
			Daphnia longiremis	3,070	998	2,034	829	2,991	1,910
			Holopedium gibberum	4,758	2,533	3,646	2,665	6,893	4,779
		Copepod nauplii	Copepoda - nauplii	1,228	921	1,074	2,616	3,487	3,052
		Calanoida	*Leptodiaptomus minutus*	307	0	153	0	2,910	1,455
		Cyclopoida	Cyclopoida - copepodites	0	153	77	241	0	120
		Rotifera	*Asplanchna priodonta*	460	307	384	215	322	269
			Collotheca sp.	1,074	1,535	1,305	12	8	10
			Conochilus unicornis	11,666	9,977	10,821	2,402	1,517	1,959
			Gastropus stylifer	307	153	230	53	105	79
			Kellicottia longispina	5,372	7,368	6,370	76	54	65
			Keratella cochlearis	6,293	6,754	6,524	42	41	41
			Ploesoma hudsoni	0	307	153	13	0	6
			Ploesoma truncatum	7,828	5,986	6,907	239	333	286
			Polyarthra major	921	307	614	232	697	465
			Synchaeta stylata	307	767	537	32	13	23
			Trichotria tetractis	153	0	77	0	130	65
8-Aug-13	Af-7	Cladocera	*Bosmina longirostris*	9,575	7,971	8,773	4,946	5,462	5,204
			Daphnia longiremis	2,543	2,236	2,389	2,217	2,126	2,172
			Holopedium gibberum	1,352	1,154	1,253	925	1,776	1,350
		Copepod nauplii	Copepoda - nauplii	2,164	1,875	2,020	5,326	6,146	5,736
		Calanoida	*Leptodiaptomus minutus*	54	0	27	0	513	256
		Rotifera	*Asplanchna priodonta*	649	289	469	202	454	328
			Collotheca sp.	4,220	3,318	3,769	25	32	29
			Conochilus unicornis	10,171	6,636	8,403	1,006	1,647	1,327
			Gastropus stylifer	0	144	72	49	0	25
			Kellicottia longispina	8,764	7,357	8,061	76	90	83
			Keratella cochlearis	5,626	3,607	4,616	36	56	46

Table B-10 Zooplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
8-Aug-13	Af-7	Rotifera	*Lecane mira*	0	144	72	78	0	39
			Monostyla sp.	108	0	54	0	92	46
			Ploesoma hudsoni	649	289	469	12	27	19
			Ploesoma truncatum	8,331	6,492	7,412	210	329	270
			Polyarthra major	0	144	72	109	0	55
			Synchaeta stylata	325	1,298	811	55	14	34
7-Sep-13	Af-1	Cladocera	*Bosmina longirostris*	8,746	4,635	6,691	2,817	3,818	3,317
			Daphnia longiremis	5,233	2,691	3,962	2,736	5,425	4,080
			Holopedium gibberum	224	174	199	298	383	341
		Copepod nauplii	Copepoda - nauplii	972	249	610	708	2,760	1,734
		Cyclopoida	*Acanthocyclops robustus*	37	0	19	0	299	150
			Cyclopoida - copepodites	860	374	617	323	985	654
		Rotifera	*Asplanchna priodonta*	449	299	374	209	314	262
			Collotheca pelagica	1,495	598	1,047	3	9	6
			Conochilus unicornis	3,364	1,744	2,554	231	527	379
			Gastropus stylifer	299	50	174	17	103	60
			Kellicottia longispina	2,616	1,246	1,931	13	27	20
			Keratella cochlearis	13,082	7,426	10,254	46	80	63
			Lecane sp.	0	50	25	27	0	14
			Monostyla sp.	0	50	25	42	0	21
			Ploesoma truncatum	150	100	125	4	6	5
			Polyarthra major	75	0	37	0	57	28
			Synchaeta stylata	75	100	87	4	3	4
			Trichotria tetractis	75	0	37	0	63	32
7-Sep-13	Af-7	Cladocera	*Bosmina longirostris*	6,982	7,293	7,138	4,913	4,897	4,905
			Daphnia longiremis	4,380	3,599	3,989	3,604	4,277	3,941
			Holopedium gibberum	526	238	382	408	899	653
		Copepod nauplii	Copepoda - nauplii	400	238	319	677	1,137	907
		Cyclopoida	*Acanthocyclops robustus*	0	24	12	191	0	95
			Cyclopoida - copepodites	576	286	431	267	562	414
		Rotifera	*Asplanchna priodonta*	200	143	172	100	140	120
			Collotheca pelagica	651	715	683	4	4	4

Table B-10 Zooplankton Abundance and Biomass in Duchess Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
7-Sep-13	Af-7	Rotifera	*Conochilus unicornis*	1,452	1,859	1,655	217	206	211
			Gastropus stylifer	50	191	120	65	17	41
			Kellicottia longispina	2,703	3,242	2,972	33	28	31
			Keratella cochlearis	8,459	14,063	11,261	228	56	142
			Lecane mira	50	0	25	0	27	14
			Ploesoma hudsoni	50	0	25	0	2	1
			Ploesoma truncatum	250	572	411	23	10	16
			Polyarthra major	0	143	72	108	0	54
			Synchaeta stylata	200	95	148	4	8	6

Notes: Samples were analyzed by EcoAnalysts, Inc. Values are rounded to the nearest whole number.
org/m^3 = number of organisms per cubic metre; mg/m^3 = milligrams per cubic metre; sp. = species.

Table B-11 Zooplankton Abundance and Biomass in Lake Af1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
26-Jul-13	Af-10	Cladocera	*Bosmina longirostris*	176	44	110	60	90	75
			Daphnia longiremis	7	5	6	6	8	7
			Holopedium gibberum	20	44	32	75	33	54
		Copepod nauplii	Copepoda - nauplii	4,072	3,681	3,877	10,453	11,565	11,009
		Calanoida	Calanoida - copepodites	117	113	115	522	410	466
			Epischura nevadensis	72	54	63	1,070	1,427	1,248
			Heterocope septentrionalis	20	44	32	3,699	1,644	2,671
			Leptodiaptomus minutus	431	328	379	3,068	4,135	3,601
			Leptodiaptomus pribilofensis	65	78	72	808	674	741
		Cyclopoida	cyclopoida	7	0	3	0	28	14
			Cyclopoida - copepodites	372	431	401	519	577	548
			Cyclops strenuus	0	10	5	73	0	37
			Diacyclops thomasi	0	5	2	24	0	12
		Rotifera	*Collotheca mutabilis*	5,169	4,464	4,816	381	457	419
			Conochilus unicornis	7,205	14,332	10,768	10,887	3,811	7,349
			Gastropus stylifer	157	0	78	0	54	27
			Kellicottia longispina	2,349	3,681	3,015	38	24	31
			Keratella cochlearis	1,175	861	1,018	9	12	10
			Ploesoma sp.	78	0	39	0	3	2
			Polyarthra major	78	0	39	0	59	30
17-Aug-13	Af-10	Cladocera	*Holopedium gibberum*	658	55	356	94	707	400
		Copepod nauplii	Copepoda - nauplii	11,695	23,573	17,634	66,946	33,214	50,080
		Calanoida	*Calanoida - copepodites*	658	384	521	2,318	3,295	2,806
			Epischura sp.	73	110	91	2,179	1,453	1,816
			Leptodiaptomus minutus	146	55	101	520	1,386	953
			Leptodiaptomus pribilofensis	0	55	27	566	0	283
		Cyclopoida	*Acanthocyclops robustus*	73	219	146	2,331	585	1,458
			Cyclopoida - copepodites	12,572	11,622	12,097	17,125	17,103	17,114
		Rotifera	*Asplanchna priodonta*	5,847	9,868	7,858	5,784	4,093	4,938
			Conochilus unicornis	176,155	153,496	164,826	30,512	34,486	32,499
			Kellicottia longispina	31,430	40,567	35,999	417	323	370
			Keratella cochlearis	8,771	4,934	6,853	49	38	44

Table B-11 Zooplankton Abundance and Biomass in Lake Af1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
12-Sep-13	Af-10	Cladocera	Chydoridae	0	27	14	16	0	8
			Daphnia longiremis	18	27	23	33	22	28
			Holopedium gibberum	1,005	1,398	1,201	2,133	1,431	1,782
		Copepod nauplii	Copepoda - nauplii	1,169	1,096	1,133	3,114	3,321	3,218
		Calanoida	Calanoida - copepodites	18	55	37	191	64	128
			Epischura nevadensis	0	27	14	545	0	272
			Leptodiaptomus minutus	37	0	18	0	346	173
		Cyclopoida	*Acanthocyclops robustus*	37	164	101	1,316	292	804
			Cyclopoida	475	630	553	2,642	2,090	2,366
			Cyclopoida - copepodites	5,683	6,140	5,911	12,772	11,550	12,161
			Cyclops strenuus	37	27	32	206	274	240
		Rotifera	*Ascomorpha ovalis*	73	110	91	0	62	31
			Asplanchna priodonta	1,169	1,425	1,297	998	819	908
			Bdelloidea	0	110	55	46	0	23
			Conochilus unicornis	38,886	44,404	41,645	3,593	3,551	3,572
			Kellicottia longispina	12,499	14,144	13,321	145	128	137
			Keratella cochlearis	7,675	13,376	10,525	82	51	66
			Polyarthra major	146	767	457	581	111	346
			Testudinella sp.	0	110	55	2	0	1

Notes: Samples were analyzed by EcoAnalysts, Inc. Values are rounded to the nearest whole number.
org/m^3 = number of organisms per cubic metre; mg/m^3 = milligrams per cubic metre; sp. = species.

Table B-12 Zooplankton Abundance and Biomass in Lake E1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
17-Aug-13	E-L1-1	Calanoida	Calanoida - copepodites	0	26	13	0	91	46
			Leptodiaptomus pribilofensis	0	26	13	0	269	135
		Cladocera	*Bosmina longirostris*	78	26	52	107	36	72
			Daphnia longiremis	1,488	1,566	1,527	1,945	1,764	1,855
			Holopedium gibberum	731	1,123	927	446	792	619
			Polyphemus pediculus	26	0	13	731	0	365
		Copepod nauplii	Copepoda - nauplii	6,578	5,534	6,056	18,683	15,717	17,200
		Cyclopoida	Cyclopoida	26	26	26	112	112	112
			Cyclopoida - copepodites	6,866	6,526	6,696	5,911	4,703	5,307
		Rotifera	*Asplanchna priodonta*	1,932	1,201	1,566	802	546	674
			Collotheca sp.	104	104	104	1	1	1
			Conochilus unicornis	12,739	8,562	10,651	2,063	1,298	1,681
			Gastropus stylifer	52	52	52	18	18	18
			Kellicottia longispina	3,446	2,245	2,845	35	23	29
			Keratella cochlearis	470	365	418	5	4	4
			Lecane mira	52	52	52	28	28	28
			Monostyla sp.	0	52	26	0	44	22
			Polyarthra major	52	0	26	40	0	20
12-Sep-13	E-L1-1	Calanoida	*Epischura nevadensis*	20	39	29	389	778	584
		Cladocera	*Bosmina longirostris*	78	59	69	82	50	66
			Chydorus sphaericus	20	20	20	60	60	60
			Daphnia longiremis	3,211	4,033	3,622	3,362	4,898	4,130
			Holopedium gibberum	20	39	29	33	67	50
		Copepod nauplii	Copepoda - nauplii	470	235	352	1,334	667	1,001
		Cyclopoida	Cyclopoida - copepodites	529	548	538	548	687	617
		Rotifera	*Asplanchna priodonta*	4,699	4,542	4,621	3,289	3,180	3,234
			Conochilus unicornis	13,705	13,548	13,627	1,543	967	1,255
			Kellicottia longispina	13,392	9,084	11,238	138	93	115
			Keratella cochlearis	10,259	10,338	10,298	65	64	65
			Lecane mira	0	78	39	0	43	21
			Monostyla lunaris	78	78	78	66	66	66
			Monostyla sp.	0	78	39	0	66	33

Table B-12 Zooplankton Abundance and Biomass in Lake E1, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
12-Sep-13	E-L1-1	Rotifera	*Polyarthra major*	235	157	196	178	119	148
			Testudinella sp.	0	78	39	0	1	1
			Trichotria tetractis	78	0	39	66	0	33

Notes: Samples were analyzed by EcoAnalysts, Inc. Values are rounded to the nearest whole number.
org/m^3 = number of organisms per cubic metre; mg/m^3 = milligrams per cubic metre; sp. = species.

Table B-13 Zooplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
28-Jul-13	PL-1	Cladocera	*Bosmina longirostris*	2,090	2,364	2,227	5,094	8,621	6,857
			Daphnia longiremis	34	0	17	41	0	21
			Holopedium gibberum	188	103	146	322	176	249
		Copepod nauplii	Copepoda - nauplii	2,672	2,467	2,570	7,590	7,006	7,298
		Calanoida	Calanoida - copepodites	171	188	180	598	658	628
			Epischura nevadensis	103	69	86	2,043	1,362	1,702
			Heterocope septentrionalis	17	51	34	1,438	4,315	2,877
			Leptodiaptomus minutus	223	154	188	2,111	1,462	1,786
			Leptodiaptomus pribilofensis	428	343	385	4,360	3,909	4,134
		Cyclopoida	Cyclopoida - copepodites	1,079	1,028	1,054	3,782	4,635	4,208
			Cyclops strenuus	188	291	240	1,413	2,184	1,799
			Diacyclops thomasi	308	274	291	1,511	1,343	1,427
		Rotifera	*Collotheca pelagica*	0	69	34	0	0.4	0.2
			Conochilus unicornis	20,283	16,172	18,228	18,610	14,301	16,455
			Kellicottia longispina	14,938	15,898	15,418	154	163	158
			Keratella cochlearis	343	274	308	3	3	3
			Polyarthra major	959	822	891	56	47	52
28-Jul-13	PL-2	Cladocera	*Bosmina longirostris*	3,563	2,056	2,810	12,689	6,169	9,429
			Daphnia longiremis	365	91	228	442	111	276
			Holopedium gibberum	457	365	411	781	625	703
		Copepod nauplii	Copepoda - nauplii	5,391	3,289	4,340	15,309	9,341	12,325
		Calanoida	Calanoida - copepodites	1,645	868	1,256	5,740	3,029	4,384
			Epischura nevadensis	685	731	708	13,619	14,527	14,073
			Heterocope septentrionalis	46	46	46	3,836	3,836	3,836
			Leptodiaptomus minutus	137	91	114	1,299	866	1,083
			Leptodiaptomus pribilofensis	3,198	2,193	2,695	36,162	23,683	29,923
		Cyclopoida	Cyclopoida - copepodites	2,969	1,553	2,261	10,972	5,589	8,281
			Cyclops strenuus	640	503	571	4,797	3,769	4,283
			Diacyclops thomasi	868	685	777	4,253	3,358	3,805
		Rotifera	*Conochilus unicornis*	26,131	20,740	23,436	17,265	15,603	16,434
			Gastropus stylifer	0	91	46	0	31	16
			Kellicottia longispina	25,948	21,563	23,755	267	222	244

Table B-13 Zooplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
28-Jul-13	PL-2	Rotifera	*Keratella cochlearis*	365	731	548	4	7	5
			Polyarthra major	1,827	1,279	1,553	73	72	72
29-Jul-13	PL-3	Cladocera	*Bosmina longirostris*	1,321	1,069	1,195	3,578	2,435	3,006
			Daphnia longiremis	50	137	93	60	166	113
			Daphnia middendorffiana	25	0	12	13,306	0	6,653
			Holopedium gibberum	249	192	221	426	328	377
		Copepod nauplii	Copepoda - nauplii	14,851	13,212	14,031	42,178	37,521	39,849
		Calanoida	Calanoida - copepodites	623	247	435	2,174	861	1,518
			Epischura nevadensis	150	164	157	2,972	3,269	3,120
			Heterocope septentrionalis	25	0	12	2,092	0	1,046
			Leptodiaptomus pribilofensis	772	767	770	8,926	9,185	9,056
		Cyclopoida	Cyclopoida - copepodites	3,663	3,070	3,366	13,231	10,922	12,077
			Cyclops strenuus	598	987	792	4,485	7,401	5,943
			Diacyclops thomasi	125	137	131	610	672	641
		Rotifera	*Collotheca* sp.	0	274	137	0	2	1
			Conochilus unicornis	10,914	10,306	10,610	9,922	6,879	8,401
			Gastropus stylifer	100	55	77	34	19	26
			Kellicottia longispina	19,386	14,692	17,039	199	151	175
			Keratella cochlearis	648	822	735	6	8	7
			Lecane mira	50	0	25	27	0	14
			Polyarthra major	748	1,261	1,004	39	56	47
29-Jul-13	PL-4	Cladocera	*Bosmina longirostris*	1,850	2,513	2,181	5,345	7,351	6,348
			Daphnia longiremis	308	365	337	373	442	408
			Holopedium gibberum	1,336	1,096	1,216	2,285	1,875	2,080
		Copepod nauplii	Copepoda - nauplii	7,195	8,863	8,029	20,434	25,170	22,802
		Calanoida	Calanoida - copepodites	720	868	794	2,511	3,029	2,770
			Epischura nevadensis	103	183	143	2,043	3,632	2,837
			Heterocope septentrionalis	34	0	17	2,877	0	1,438
			Leptodiaptomus pribilofensis	1,371	1,462	1,416	16,370	17,428	16,899
		Cyclopoida	Cyclopoida - copepodites	3,015	4,157	3,586	9,968	14,015	11,992
			Cyclops strenuus	480	685	582	3,598	5,139	4,368
			Diacyclops thomasi	137	365	251	672	1,791	1,231

Table B-13 Zooplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
29-Jul-13	PL-4	Rotifera	*Collotheca* sp.	137	183	160	1	1	1
			Conochilus unicornis	9,251	8,680	8,965	7,375	7,395	7,385
			Gastropus stylifer	69	365	217	24	125	74
			Kellicottia longispina	13,774	25,583	19,678	142	263	202
			Keratella cochlearis	343	365	354	3	4	4
			Polyarthra major	1,165	1,188	1,176	71	67	69
14-Aug-13	PL-1	Cladocera	*Bosmina longirostris*	838	1,964	1,401	2,929	6,468	4,699
			Chydorus sphaericus	0	23	11	0	70	35
			Daphnia longiremis	274	320	297	332	387	359
			Holopedium gibberum	259	228	244	443	391	417
		Copepod nauplii	Copepoda - nauplii	13,644	9,685	11,665	38,749	27,505	33,127
		Calanoida	Calanoida - copepodites	61	69	65	213	239	226
			Epischura sp.	15	0	8	303	0	151
			Leptodiaptomus minutus	30	0	15	289	0	144
			Leptodiaptomus pribilofensis	107	183	145	1,100	1,886	1,493
		Cyclopoida	Cyclopoida - copepodites	1,218	1,325	1,272	1,203	1,431	1,317
			Cyclops strenuus	2,467	2,147	2,307	19,993	18,351	19,172
			Diacyclops thomasi	198	228	213	970	1,119	1,045
		Rotifera	*Conochilus unicornis*	17,542	17,451	17,497	6,873	7,175	7,024
			Kellicottia longispina	21,380	29,237	25,309	220	300	260
			Keratella cochlearis	914	914	914	9	9	9
			Lecane mira	61	91	76	33	50	41
			Monostyla sp.	0	91	46	0	77	39
			Polyarthra major	1,584	1,279	1,431	76	61	68
14-Aug-13	PL-2	Cladocera	*Bosmina longirostris*	470	352	411	644	483	563
			Daphnia longiremis	137	117	127	166	142	154
			Holopedium gibberum	117	264	191	201	452	326
		Copepod nauplii	Copepoda - nauplii	15,036	15,741	15,389	42,703	44,705	43,704
		Calanoida	Calanoida - copepodites	20	59	39	68	205	137
			Epischura sp.	0	29	15	0	584	292
			Leptodiaptomus pribilofensis	666	499	582	7,723	5,152	6,437

Table B-13 Zooplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
14-Aug-13	PL-2	Cyclopoida	Cyclopoida - copepodites	1,625	1,909	1,767	1,155	1,521	1,338
			Cyclops strenuus	3,642	2,819	3,230	26,068	21,707	23,887
			Diacyclops thomasi	627	734	680	3,070	3,452	3,261
		Rotifera	*Collotheca* sp.	0	117	59	0	1	0.4
			Conochilus unicornis	6,030	6,578	6,304	1,669	2,136	1,903
			Kellicottia longispina	27,802	23,259	25,531	286	239	262
			Keratella cochlearis	1,096	235	666	11	2	7
			Polyarthra major	2,819	822	1,821	160	44	102
15-Aug-13	PL-3	Cladocera	*Bosmina longirostris*	148	66	107	203	90	146
			Daphnia longiremis	49	0	25	60	0	30
			Holopedium gibberum	280	296	288	478	506	492
		Copepod nauplii	Copepoda - nauplii	8,091	15,887	11,989	22,980	45,119	34,049
		Calanoida	Calanoida - copepodites	181	66	123	631	230	430
			Heterocope septentrionalis	16	0	8	1,381	0	690
			Leptodiaptomus pribilofensis	1,908	2,039	1,974	23,008	24,124	23,566
		Cyclopoida	Cyclopoida - copepodites	625	822	724	945	1,967	1,456
			Cyclops strenuus	2,072	2,862	2,467	15,142	20,911	18,026
			Diacyclops thomasi	444	625	534	2,176	3,062	2,619
		Rotifera	*Conochilus unicornis*	2,270	1,480	1,875	1,352	638	995
			Kellicottia longispina	6,513	4,473	5,493	67	46	56
			Keratella cochlearis	296	395	345	3	4	3
			Polyarthra major	329	460	395	16	25	21
			Trichotria tetractis	33	0	16	28	0	14
15-Aug-13	PL-5	Cladocera	*Bosmina longirostris*	740	713	726	1,014	976	995
			Daphnia longiremis	164	274	219	199	332	265
			Holopedium gibberum	2,193	2,631	2,412	8,463	13,294	10,878
		Copepod nauplii	Copepoda - nauplii	3,508	2,302	2,905	9,964	6,539	8,252
		Calanoida	*Epischura* sp.	0	55	27	0	1,090	545
			Heterocope septentrionalis	27	0	14	2,301	0	1,151
			Leptodiaptomus pribilofensis	548	1,151	850	5,657	11,881	8,769

Table B-13 Zooplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Aug-13	PL-5	Cyclopoida	Cyclopoida - copepodites	2,001	1,974	1,987	2,635	4,701	3,668
			Cyclops strenuus	1,042	1,754	1,398	7,812	13,157	10,484
			Diacyclops thomasi	1,809	2,083	1,946	6,709	7,383	7,046
		Rotifera	*Conochilus unicornis*	4,057	5,592	4,824	2,194	2,706	2,450
			Gastropus stylifer	110	439	274	38	150	94
			Kellicottia longispina	25,437	22,915	24,176	261	235	248
			Polyarthra major	2,412	1,206	1,809	133	70	101
15-Sep-13	PL-2	Cladocera	*Bosmina longirostris*	2,151	2,614	2,383	7,433	8,452	7,942
			Daphnia longiremis	928	675	801	1,123	816	969
			Holopedium gibberum	422	422	422	721	721	721
		Copepod nauplii	Copepoda - nauplii	11,133	11,048	11,091	31,617	31,377	31,497
		Calanoida	*Epischura nevadensis*	42	0	21	838	0	419
			Heterocope septentrionalis	0	42	21	0	3,541	1,770
			Leptodiaptomus pribilofensis	42	84	63	435	870	653
			Leptodiaptomus sicilis	0	84	42	0	439	219
		Cyclopoida	Cyclopoida - copepodites	7,127	7,717	7,422	4,629	6,148	5,388
			Cyclops strenuus	337	548	443	2,530	4,112	3,321
			Diacyclops thomasi	1,434	2,277	1,855	5,540	9,464	7,502
		Rotifera	*Bdelloidea*	84	0	42	35	0	18
			Conochilus unicornis	15,350	13,663	14,506	4,022	2,634	3,328
			Gastropus stylifer	169	169	169	58	58	58
			Kellicottia longispina	23,530	40,820	32,175	242	420	331
			Keratella cochlearis	4,976	7,506	6,241	50	33	41
			Polyarthra major	6,916	4,723	5,819	326	3,575	1,950
15-Sep-13	PL-3	Cladocera	*Bosmina longirostris*	548	635	592	2,710	1,860	2,285
			Daphnia longiremis	50	0	25	60	0	30
			Holopedium gibberum	249	336	293	426	575	501
		Copepod nauplii	Copepoda - nauplii	8,373	7,774	8,074	23,778	22,080	22,929
		Calanoida	*Leptodiaptomus pribilofensis*	249	262	255	2,572	2,700	2,636
			Leptodiaptomus sicilis	150	75	112	777	389	583

Table B-13 Zooplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Sep-13	PL-3	Cyclopoida	Cyclopoida - copepodites	7,974	8,672	8,323	6,998	6,508	6,753
			Cyclops strenuus	548	710	629	4,112	5,326	4,719
			Diacyclops thomasi	1,545	934	1,240	5,882	4,423	5,152
		Rotifera	*Conochilus unicornis*	6,927	5,831	6,379	2,024	1,845	1,934
			Gastropus stylifer	50	0	25	17	0	9
			Kellicottia longispina	28,108	26,837	27,472	289	276	282
			Keratella cochlearis	2,442	1,570	2,006	24	16	20
			Monostyla lunaris	50	0	25	42	0	21
			Polyarthra major	3,239	2,392	2,816	149	118	134
15-Sep-13	PL-4	Cladocera	*Bosmina longirostris*	224	449	336	307	614	461
			Ceriodaphnia sp.	37	0	19	82	0	41
			Daphnia longiremis	0	75	37	0	90	45
			Holopedium gibberum	75	75	75	128	128	128
			Macrothricidae	37	0	19	99	0	50
		Copepod nauplii	Copepoda - nauplii	10,989	15,399	13,194	31,209	43,735	37,472
		Calanoida	*Heterocope septentrionalis*	0	75	37	0	6,276	3,138
			Leptodiaptomus pribilofensis	224	224	224	2,314	2,314	2,314
			Leptodiaptomus sicilis	0	37	19	0	194	97
		Cyclopoida	Cyclopoida - copepodites	8,709	18,165	13,437	7,887	11,881	9,884
			Cyclops strenuus	972	2,093	1,532	7,634	17,253	12,443
			Diacyclops thomasi	486	1,084	785	1,906	5,886	3,896
		Rotifera	*Conochilus unicornis*	8,896	13,680	11,288	1,850	3,109	2,480
			Gastropus stylifer	0	150	75	0	51	26
			Kellicottia longispina	23,174	28,407	25,790	238	292	265
			Keratella cochlearis	5,532	6,728	6,130	27	36	32
			Lecane luna	0	75	37	0	41	20
			Lecane sp.	0	75	37	0	41	20
			Polyarthra major	4,934	3,214	4,074	3,735	2,433	3,084
15-Sep-13	PL-5	Cladocera	*Bosmina longirostris*	1,771	822	1,297	8,021	1,127	4,574
			Ceriodaphnia sp.	63	0	32	139	0	69
			Daphnia longiremis	127	127	127	153	153	153
			Holopedium gibberum	2,151	2,657	2,404	17,134	21,781	19,458

Table B-13 Zooplankton Abundance and Biomass in Paul Lake, 2013

Sampling Date	Station	Major Taxonomic Group	Taxonomic Name	Abundance (org/m^3)			Biomass (mg/m^3)		
				Replicate 1	Replicate 2	Mean	Replicate 1	Replicate 2	Mean
15-Sep-13	PL-5	Copepod nauplii	Copepoda - nauplii	12,145	11,133	11,639	34,491	31,617	33,054
		Calanoida	Diaptomidae	190	0	95	419	0	210
			Leptodiaptomus pribilofensis	759	506	633	7,833	5,222	6,528
		Cyclopoida	Cyclopoida - copepodites	8,539	8,350	8,444	6,983	6,784	6,883
			Cyclops strenuus	506	1,392	949	3,795	10,437	7,116
			Diacyclops thomasi	1,202	1,392	1,297	5,889	5,753	5,821
		Rotifera	*Conochilus unicornis*	6,831	6,072	6,452	1,464	1,441	1,453
			Kellicottia longispina	27,452	29,476	28,464	282	303	293
			Keratella cochlearis	1,012	1,392	1,202	10	14	12
			Polyarthra major	2,404	5,946	4,175	139	346	242

Notes: Samples were analyzed by EcoAnalysts, Inc. Values are rounded to the nearest whole number.
org/m^3 = number of organisms per cubic metre; mg/m^3 = milligrams per cubic metre; sp. = species.

Table B-14 Summary of Zooplankton Community Data for Lakes in the Jay Project Area, 2013

Basin	Waterbody	Sampling Period	Station	Total Abundance (cells/L)	Total Biomass (mg/m^3)	Taxonomic Richness (# of taxa)	Relative Abundance (%)					Relative Biomass (%)				
							Cladocera	Copepod nauplii	Calanoida	Cyclopoida	Rotifera	Cladocera	Copepod nauplii	Calanoida	Cyclopoida	Rotifera
Lac du Sauvage	Lac du Sauvage	Late Spring	Aa-1	38,468	8	14	10	2	0	0	88	38	27	8	4	23
		Summer		82,806	42	15	28	8	0	1	63	43	43	4	3	6
		Fall		36,516	19	14	14	2	11	3	69	35	13	24	6	23
		Late Spring	Ab-1	41,715	9	14	4	1	0	2	93	17	14	7	26	37
		Summer		55,571	22	14	20	1	1	1	77	55	8	13	17	7
		Fall		16,929	11	19	11	12	0	7	70	65	13	8	7	6
		Late Spring	Ac-1	36,990	9	15	3	1	1	2	94	14	10	9	24	42
		Summer		97,353	32	15	18	1	1	1	80	56	8	15	12	9
		Fall		16,937	9	22	7	11	0	5	76	13	58	1	14	14
		Late Spring	Ac-4	45,590	10	13	3	1	1	2	94	14	10	12	36	27
		Summer		70,587	27	15	17	2	1	1	80	47	14	19	9	11
		Fall		19,320	15	19	11	14	0	5	70	24	53	2	13	9
		Late Spring	Ac-7	41,980	9	14	3	1	1	1	95	11	14	8	26	42
		Summer		92,777	43	14	27	1	0	1	70	69	8	6	9	8
		Fall		21,536	13	22	9	12	0	3	76	22	56	2	11	9
		Late Spring	Ad-1	95,967	31	15	6	1	5	1	87	12	6	49	10	22
		Summer		95,339	32	15	22	2	0	1	76	64	14	4	6	12
		Fall		18,353	9	20	13	10	0	4	73	21	55	1	11	12
		Late Spring	Ae-1	42,609	9	15	3	0	1	0	95	11	3	25	7	53
		Summer		80,680	32	15	29	1	1	1	68	57	11	11	6	16
		Fall		14,592	6	20	9	8	0	3	80	20	52	1	14	13
	Duchess Lake	Late Spring	Af-1	79,549	21	14	15	1	0	0	84	31	7	3	0	59
		Summer		74,676	37	14	53	1	0	0	45	78	8	4	0	9
		Fall		28,768	11	16	38	2	0	2	58	69	16	0	7	8
		Late Spring	Af-7	53,101	13	15	13	1	0	0	87	26	9	2	0	62
		Summer		48,743	17	15	25	4	0	0	70	51	34	2	0	14
		Fall		29,815	12	14	39	1	0	1	59	82	8	0	4	6
	Lake Af1	Late Spring	Af-10	24,871	28	15	1	16	3	2	80	0	39	31	2	28
		Summer		246,508	113	8	0	7	0	5	87	0	44	5	16	34
		Fall		76,483	26	15	2	1	0	9	88	7	12	2	59	19
	Lake E1	Late Spring	E-L1-1	—	—	—	—	—	—	—	—	—	—	—	—	—
		Summer		31,065	28	14	8	19	0	22	51	10	61	1	19	9
		Fall		44,894	12	14	8	1	0	1	90	37	14	1	5	43

Table B-14 Summary of Zooplankton Community Data for Lakes in the Jay Project Area, 2013

Basin	Waterbody	Sampling Period	Station	Total Abundance (cells/L)	Total Biomass (mg/m^3)	Taxonomic Richness (# of taxa)	Relative Abundance (%)					Relative Biomass (%)				
							Cladocera	Copepod nauplii	Calanoida	Cyclopoida	Rotifera	Cladocera	Copepod nauplii	Calanoida	Cyclopoida	Rotifera
Lac de Gras	Paul Lake	Late Spring	PL-1	42,297	50	11	6	6	2	4	82	14	15	22	15	34
		Summer		62,914	70	13	3	19	0	6	72	8	48	3	31	11
		Fall		—	—	—	—	—	—	—	—	—	—	—	—	—
		Late Spring	PL-2	65,556	109	12	5	7	7	6	75	10	11	49	15	15
		Summer		56,827	83	11	1	27	1	10	60	1	53	9	34	3
		Fall		83,559	66	14	4	13	0	12	71	15	48	5	25	9
		Late Spring	PL-3	50,844	92	14	3	28	3	8	58	11	43	16	20	9
		Summer		26,363	83	11	2	45	8	14	31	1	41	30	27	1
		Fall		58,265	48	11	2	14	1	17	66	6	48	7	35	5
		Late Spring	PL-4	49,104	81	13	8	16	5	9	62	11	28	30	22	10
		Summer		—	—	—	—	—	—	—	—	—	—	—	—	—
		Fall		77,147	76	14	1	17	0	20	61	1	49	7	35	8
		Late Spring	PL-5	—	—	—	—	—	—	—	—	—	—	—	—	—
		Summer		43,568	55	11	8	7	2	12	71	22	15	19	39	5
		Fall		67,207	86	11	6	17	1	16	60	28	38	8	23	2

Note: Samples were analyzed by EcoAnalysts, Inc.
cells/L = number of cells per litre; mg/m^3 = milligrams per cubic metre; # = number; % = percent; — = not sampled; Late Spring = July; Summer = August; Fall = September.