

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	Disturbance event	Hm group (marine diatoms found in Holocene surficial deposits)				HTm group (marine diatoms found in Holocene deposits or Neogene diatomites)		Tm group (marine diatoms found in Neogene diatomites)		Total Brackish group	Thalassiosira bramaputrae	Mastogloia smithii	Cyclotella smithii	Misc. euryhaline diatoms	Freshwater diatom
			Hm group	HTm group	Tm group	Total Brackish group	Thalassiosira bramaputrae	Mastogloia smithii	Cyclotella smithii	Misc. euryhaline diatoms						
15	BR94E-15			6.4E+02	1.3E+03	6.4E+03						6.4E+03			2.2E+05	
20	BR94E-20															
25	BR94E-25				6.4E+02	1.3E+03	1.3E+03								7.7E+04	
30	BR94E-30	"BS"				9.5E+03	4.7E+03					4.7E+03			1.5E+06	
35	BR94E-35			1.3E+03	1.9E+03										5.2E+04	
40	BR94E-40		1.6E+03	6.4E+02	4.8E+03	6.4E+02	6.4E+02								2.7E+05	
45	BR94E-45			6.4E+02	2.6E+03										1.4E+05	
48	BR94E-48		2.6E+03	1.3E+03	5.2E+03										2.4E+05	
50	BR94E-50		1.9E+03	3.9E+03	5.8E+03										1.0E+05	
52	BR94E-52	De1			1.3E+03										6.4E+03	
54	BR94E-54	De1			1.6E+03										3.2E+05	
56	BR94E-56	De1													5.4E+05	
58	BR94E-58	De1													1.0E+05	
60	BR94E-60	De1													1.9E+05	
62	BR94E-62				6.4E+02										5.2E+04	
64	BR94E-64				1.3E+03										1.5E+05	
66	BR94E-66				1.3E+03										7.5E+05	
70	BR94E-70			1.3E+03	2.6E+03										1.4E+06	
75	BR94E-75															
80	BR94E-80		6.4E+02	6.4E+02	6.4E+02										1.3E+04	
85	BR94E-85			1.3E+03	1.3E+03										1.5E+05	
90	BR94F-90			4.6E+02		2.3E+02						2.3E+02			6.4E+04	
95	BR94F-95														1.9E+04	
98	BR94F-98				2.3E+02										2.6E+04	
100	BR94F-100	De2	2.3E+02	2.6E+03	5.3E+03	4.6E+02	2.3E+02	2.3E+02							5.2E+04	
102	BR94E-102	De2	3.2E+03	4.5E+03	1.9E+04	1.9E+03	1.9E+03								2.6E+04	
104	BR94E-104	De2	9.7E+03	6.4E+03	1.3E+04	1.3E+03	1.3E+03								2.6E+04	
106	BR94E-106	De2	4.5E+03	1.4E+04	2.4E+04										1.3E+05	
111	BR94E-111	De2	6.4E+02	3.5E+03	4.5E+03										7.7E+04	
112	BR94E-112	De2	1.6E+02	3.2E+02	6.4E+02										3.9E+04	
113	BR94E-113	De2	8.1E+01	2.8E+02	5.6E+02											
114	BR94E-114				1.8E+03										7.2E+05	
116	BR94E-116			4.3E+02	8.6E+02										7.7E+04	
118	BR94E-118			6.4E+02	9.7E+02										7.1E+04	
120	BR94E-120				3.9E+03											
122	BR94E-122	De3		2.6E+03	2.6E+03										2.6E+05	
130	BR94E-130					6.4E+02	6.4E+02								1.9E+05	
135	BR94E-135				1.3E+03										7.7E+04	
140	BR94E-140														1.5E+05	
145	BR94E-145			1.3E+03	6.4E+02										1.0E+05	
150	BR94E-150		1.3E+03	6.7E+02	2.2E+03	6.4E+02	6.4E+02								7.2E+05	

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID		Disturbance event							Misc. euryhaline diatoms	Freshwater diatom
			Hm group (marine diatoms found in Holocene surficial deposits)	HTM group (marine diatoms found in Holocene deposits or Neogene diatomites)	Tm group (marine diatoms found in Holocene diatomites)	Total Brackish group	Thalassiosira bramaputrae	Mastogloia smithii	Cyclotella meneghiniana		
155	BR94E-155	De4	1.3E+03	2.9E+03	1.5E+04	1.7E+03	8.6E+02	8.6E+02			3.9E+05
157	BR94E-157	De4		1.3E+03		1.9E+03	1.9E+03				1.3E+06
158.5	BR94E-159	De4		8.1E+02	2.6E+03	6.5E+02	6.5E+02				5.7E+05
160	BR94E-160	De4		1.6E+03	7.1E+03	3.4E+03	2.6E+03	8.6E+02			1.7E+06
162	BR94E-162				6.5E+03	9.7E+02	9.7E+02				3.3E+05
165	BR94E-165			1.9E+03	7.7E+03						2.4E+06
170	BR94E-170			3.2E+02	3.9E+03	1.3E+03	8.6E+02			4.3E+02	3.0E+06
175	BR94E-175				2.6E+03	2.6E+03	2.6E+03				3.1E+05
180	BR94E-180		1.3E+03		2.6E+03	8.6E+03	6.9E+03			1.7E+03	3.1E+05
184	BR94E-184		6.4E+02	3.5E+03	7.4E+03	4.0E+04	3.4E+04		6.0E+03		4.5E+05
186	BR94E-186		5.9E+03	7.8E+03	3.4E+03	1.3E+05	2.1E+04	5.3E+04	5.3E+04	2.3E+03	1.3E+04
188	BR94E-188	De5	4.0E+03	7.2E+03	1.9E+03	1.3E+04	3.4E+03	8.6E+03		6.4E+02	1.4E+05
190	BR94E-190	De5	2.6E+03	9.3E+03	5.2E+03	1.3E+04	7.7E+03	4.3E+03		8.6E+02	4.3E+05
192	BR94E-192	De5	2.4E+03	9.0E+03	3.0E+03	2.7E+04	1.7E+04	9.2E+03		2.9E+02	3.7E+05
194	BR94E-194	De5	1.0E+03	4.3E+03	3.9E+03	1.2E+04	7.2E+03	4.1E+03		6.9E+02	2.8E+05
196	BR94E-196	De5	1.3E+03	4.0E+03	2.3E+03	1.7E+04	8.2E+03	7.7E+03		6.4E+02	2.2E+05
198	BR94E-198	De5		2.6E+02	5.2E+02	1.3E+04	1.0E+04	2.7E+03		1.7E+02	5.2E+03
200	BR94E-200	De5	2.6E+02	6.4E+02	2.1E+03	1.9E+04	1.2E+04	5.5E+03		1.2E+03	5.2E+03
201	BR94E-201	De6	9.2E+02		4.6E+02	1.2E+04	9.9E+03	2.1E+03		4.3E+02	6.4E+03
203	BR94E-203	De6	9.2E+02	9.2E+02	4.6E+02	2.1E+04	1.9E+04	1.7E+03			1.3E+04
205	BR94E-205	De6	1.1E+03	2.8E+03	1.5E+03	1.1E+04	6.5E+03	4.8E+03			5.7E+04
207	BR94E-207	De6	1.2E+03	8.4E+02	5.4E+02	8.2E+03	4.4E+03	3.7E+03			5.6E+04
210	BR94E-210				3.2E+02	8.6E+03	6.0E+03	2.6E+03			6.4E+04
215	BR94E-215										1.8E+06
220	BR94E-220										1.9E+06
222	BR94E-222				2.6E+03						2.1E+07
225	BR94E-225										3.1E+07
230	BR94E-230				2.6E+03						1.0E+08
235	BR94E-235				2.6E+03						3.6E+05
240	BR94E-240				2.6E+03						2.6E+06
245	BR94E-245				2.6E+03						5.7E+06
250	BR94E-250			3.2E+02	3.2E+03						1.8E+05
255	BR94E-255										1.2E+06
260	BR94E-260										3.4E+05
265	BR94E-265										6.2E+05
270	BR94E-270			2.1E+02	3.0E+03						2.1E+06
275	BR94E-275				1.9E+03	6.4E+02				6.4E+02	4.2E+06
280	BR94E-280				6.4E+02						1.5E+07
285	BR94E-285			3.2E+02	4.5E+03						4.5E+06
290	BR94E-290										6.5E+06
292	BR94E-292			1.9E+03	5.8E+03	3.2E+02				3.2E+02	3.9E+05
294	BR94E-294		6.4E+02	1.9E+03	5.8E+03						2.2E+06

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	Disturbance event	Diatom groups and species												
			Hm group (marine diatoms found in Holocene surficial deposits)	HTM group (marine diatoms found in Holocene deposits or Neogene diatomites)	Tm group (marine diatoms found in Holocene diatomites)	Total Brackish group	Thalassiosira bramaputrae	Mastogloia smithii	Cyclotella meneghiniana	Misc. euryhaline diatoms	Freshwater diatom Aulacoseira				
296	BR94E-296			2.4E+02	4.0E+02	1.6E+02	1.6E+02								7.3E+05
298	BR94E-298	De7	6.1E+03	2.6E+03	7.7E+03	3.2E+03	2.6E+03	6.4E+02							2.1E+06
300	BR94E-300	De7	1.3E+03	3.9E+02	6.4E+02	1.3E+03	5.2E+02						7.7E+02		6.2E+05
301	BR94E-301	De7	2.1E+03	2.1E+03	3.4E+03	3.4E+03	2.1E+03	4.3E+02					8.6E+02		1.1E+06
302	BR94E-302	De7	1.3E+03	1.5E+03	4.3E+02										3.0E+05
304	BR94E-304				6.4E+02										5.2E+05
306	BR94E-306			6.4E+02	2.6E+03										6.5E+06
310	BR94E-310			2.9E+03	3.9E+03	1.3E+03	1.3E+03								5.0E+06
315	BR94E-315				2.3E+03	3.2E+02	3.2E+02								4.4E+06
320	BR94E-320				1.9E+03										5.0E+06
324	BR94E-324			1.3E+03	1.3E+03										
326	BR94E-326		6.4E+02	9.7E+02	1.3E+03	8.4E+03	6.4E+03					1.9E+03			2.6E+04
328	BR94E-328			2.9E+03	2.6E+03	5.6E+04	3.1E+04			2.3E+04	1.6E+03				1.0E+05
330	BR94E-330		1.3E+03	4.0E+03	2.8E+03	2.9E+05	2.4E+04	1.6E+04	2.5E+05	6.4E+02					2.6E+04
332	BR94E-332	De8	1.3E+03	1.9E+03	2.8E+03	2.0E+04	6.7E+03	1.0E+04		3.6E+03					5.2E+03
334	BR94E-334	De8	7.1E+03	3.4E+03	4.3E+03	5.3E+03	3.9E+03	9.7E+02		4.8E+02					6.4E+04
335	BR94E-335	De8	9.0E+03	2.4E+03	4.8E+03	2.9E+03	2.6E+03			3.2E+02					2.6E+04
338	BR94E-338	De8	1.1E+02	1.1E+02	3.8E+02	5.4E+01	5.4E+01								
340	BR94E-340				1.7E+03	1.3E+03	1.3E+03								2.6E+04
344	BR94E-344			2.6E+02	4.6E+03	5.4E+03	5.4E+03								1.9E+05
350	BR94E-350				1.9E+03										1.2E+06
360	BR95BB-268			4.5E+02	3.6E+03	6.7E+03	6.7E+03								2.5E+04
362	BR95BB-270				9.0E+02	5.4E+03	5.4E+03								1.3E+04
363	BR95BB-271		9.0E+02	2.2E+03	4.0E+03	1.9E+04	1.9E+04		4.5E+02						1.3E+04
364	BR95BB-272	De9	6.7E+02	4.3E+03	1.1E+04	2.0E+03	1.8E+03			2.2E+02					3.8E+05
365	BR95BB-273	De9		4.5E+02	2.2E+03										2.5E+04
366	BR95BB-274	De9			2.2E+03										1.9E+04
368	BR95BB-276	De9		4.5E+02	4.5E+02	4.5E+02	4.5E+02								1.9E+04
372	BR95BB-280				1.8E+03	4.5E+02			4.5E+02						6.3E+04
382	BR95BB-290			2.2E+02	4.5E+02										1.9E+04
387	BR95BB-295			4.5E+02	1.3E+03										1.3E+04
393	BR95BB-301			1.1E+03		4.5E+02		4.5E+02							1.2E+05
394	BR95BB-302				9.0E+02										6.3E+04
395	BR95BB-303				1.3E+03	4.5E+02			4.5E+02						5.7E+04
396	BR95BB-304				9.0E+02										6.9E+04
397	BR95BB-305	De10	4.5E+02	4.5E+02	1.3E+03	9.0E+02		4.5E+02	4.5E+02						5.7E+04
398	BR95BB-306	De10			4.5E+02	9.0E+02	4.5E+02	4.5E+02							6.3E+04
400	BR95BB-308	De10	4.5E+02	1.1E+03	2.7E+03	1.8E+03	1.3E+03	4.5E+02							1.9E+05
402	BR95BB-310			1.3E+03											8.2E+04
407	BR95BB-315				9.0E+02										8.2E+04
412	BR95BB-320			2.2E+02											6.3E+04
430	BR94E-430			2.3E+02	2.8E+03	6.0E+03	4.6E+03		1.4E+03						4.4E+05

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	Diatom Concentration (valves per cc)										
		Disturbance event	Hm group (marine diatoms found in Holocene surficial deposits)	HTM group (marine diatoms found in Holocene deposits or Neogene diatomites)	Tm group (marine diatoms found in Holocene diatomites)	Total Brackish group	Thalassiosira bramaputrae	Mastogloia smithii	Cyclotella meneghiniana	Misc. euryhaline diatoms	Freshwater diatom Aulacoseira	
433	BR94E-433		1.8E+03	1.6E+03	4.6E+02	3.2E+05	8.7E+03	3.1E+04	2.8E+05	4.6E+02		9.7E+04
435	BR94E-435	De11	1.8E+03	1.4E+03	2.8E+03	3.7E+03	2.3E+03	4.6E+02	9.2E+02			5.3E+05
436.5	BR94E-437	De11			9.2E+02	9.2E+02	9.2E+02					1.9E+05
437.5	BR94E-438	De11				6.7E+02	6.7E+02					2.7E+06
438.5	BR94E-439	De11			1.2E+03	1.2E+03	1.2E+03					5.8E+05
440	BR94E-440				9.2E+02							1.9E+05
445	BR94E-445				1.8E+03							2.2E+06
450	BR94E-450				8.3E+03	2.8E+03	2.8E+03					2.2E+07
454	BR94E-454			1.8E+03	5.5E+03	1.1E+05	3.4E+04	2.8E+03	6.9E+04			2.2E+07
458	BR94E-458			7.7E+02	1.5E+03	3.7E+03	3.4E+03		3.1E+02			6.0E+06
460	BR94E-460		1.2E+03	2.3E+02	2.3E+02	2.9E+04	2.3E+04	4.6E+03	2.3E+02	9.2E+02		1.9E+06
462	BR94E-462	De12	1.1E+04	1.8E+03	5.5E+03	2.0E+04	9.7E+03		8.7E+03	1.4E+03		2.3E+06
464	BR94E-464	De12	1.4E+04	2.6E+03	6.1E+02	7.4E+03	3.1E+03	3.1E+02	4.0E+03			1.1E+06
466	BR94E-466	De12	4.8E+03	7.5E+02	3.5E+02	6.0E+03	4.6E+02		5.4E+03	1.2E+02		1.4E+05
470	BR94E-470				6.4E+02	6.4E+02	3.2E+02		3.2E+02			9.0E+05
473	BR95X-437				9.0E+02	2.7E+03	2.7E+03					4.6E+06
476	BR95X-440			4.5E+02	9.0E+02	3.6E+03	9.0E+02		2.7E+03			2.8E+06
478	BR95X-442		9.0E+02	4.5E+02	1.8E+03	2.3E+04	1.8E+03		2.2E+04			6.6E+06
480	BR95X-444		9.0E+02	1.3E+03	3.6E+03	1.1E+06	1.3E+03	3.6E+03	1.1E+06			4.0E+05
482	BR95X-446		1.9E+04	9.0E+02	9.0E+02	2.7E+04	8.1E+03	1.8E+03	1.6E+04	9.0E+02		
484	BR95X-448		9.9E+03	3.6E+03	7.2E+03	2.2E+03	4.5E+02	9.0E+02	9.0E+02			6.3E+04
484.5	BR95X-449	De13	3.6E+03	3.8E+03	4.0E+03	2.3E+04	4.0E+03	2.7E+03	1.6E+04	4.5E+02		1.1E+06
485	BR95X-449	De13	4.5E+02	4.5E+02	2.2E+02	4.5E+02			4.5E+02			8.8E+04
486	BR95X-450											8.8E+04
489	BR95X-453											2.9E+05
491	BR95X-455			4.5E+02		4.5E+02			4.5E+02			1.0E+06
492	BR95X-456	De14			3.1E+03							1.3E+04
493	BR95X-457	De14			4.5E+02							2.5E+04
494	BR95X-458	De14		2.2E+02		9.0E+02	4.5E+02	4.5E+02				7.5E+04
495	BR95X-459	De14		4.5E+02								1.9E+05
496	BR95X-460				4.5E+02							1.9E+05
498	BR95X-462			4.5E+02	3.6E+03	3.6E+03	2.7E+03			9.0E+02		2.1E+05
515	BR94E-515				1.8E+03							2.6E+05
525	BR94E-525			6.1E+02	1.8E+03	6.1E+02		6.1E+02				4.9E+05
530	BR94E-530											2.9E+05
533	BR94E-533			4.5E+03	9.0E+03							8.2E+05
535	BR94E-535			2.3E+03								1.8E+05
536.5	BR94E-537	De15										6.9E+05
538	BR94E-538	De15			4.5E+03	4.5E+03		4.5E+03				3.1E+06
540	BR94E-540	De15			6.1E+02							4.4E+05
550	BR94E-550											2.8E+05
560	BR94E-560				9.2E+02							4.5E+05

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	Diatom Concentration (valves per cc)									
		Disturbance event	Hm group (marine diatoms found in Holocene surficial deposits)	HTM group (marine diatoms found in Holocene deposits or Neogene diatomites)	Tm group (marine diatoms found in Holocene diatomites)	Total Brackish group	Thalassiosira bramaputrae	Mastogloia smithii	Cyclotella meneghiniana	Misc. euryhaline diatoms	Freshwater diatoms
570	BR94E-570										8.0E+05
580	BR94E-580				1.8E+03	1.8E+03					2.3E+06
585	BR94E-585			5.5E+03	1.9E+04	1.7E+04	9.2E+02	1.8E+03			6.9E+06
590	BR94E-590		3.2E+03	7.4E+03	1.4E+05	6.5E+04	6.4E+03	7.1E+04			2.8E+07
595	BR94E-595		1.4E+03	1.3E+03	1.2E+05	1.3E+04	8.2E+03	9.6E+04			2.2E+06
600	BR94E-600		4.3E+02	8.6E+02	1.9E+04	5.2E+03		1.4E+04			7.9E+05
602.5	BR94E-603			4.7E+03	2.1E+05	1.6E+05	4.7E+03	4.7E+04			2.6E+06
605	BR94E-605				3.2E+02	3.2E+02					1.2E+05
606	BR94E-607	De16		4.7E+03	9.4E+03	9.4E+03					2.0E+06
608	BR94E-608	De16			5.2E+04	4.7E+04	4.7E+03				3.8E+05
610	BR94E-610										
615	BR94E-615			2.6E+02	1.3E+03	1.3E+03					2.4E+05
620	BR94E-620		6.4E+02	1.3E+03	9.0E+03	7.7E+03	1.3E+03				5.3E+05
624	BR94E-624		1.3E+03	6.4E+02	1.4E+04	1.2E+04	1.3E+03				4.7E+06
628	BR94E-628		1.3E+03	2.6E+03	1.3E+03	5.2E+04	5.2E+04				3.7E+07
630	BR94E-630		1.6E+03	1.3E+03	3.5E+04	2.6E+04	5.5E+03	2.9E+03	4.8E+02		1.6E+06
632	BR94E-632		6.4E+03	4.5E+04	9.0E+03	3.9E+03	2.1E+03	1.5E+03	2.6E+02	4.1E+03	7.7E+04
634	BR94E-634	De17	2.3E+03	4.6E+03	1.2E+03	2.0E+03	9.2E+02	1.0E+03	9.2E+01	1.6E+03	2.2E+04
636	BR94E-636				6.4E+02	6.4E+02					
640	BR94E-640										
650	BR94E-650										
660	BR94E-660										
670	BR94E-670										1.3E+04
680	BR94E-680										1.5E+05
690	BR94E-690										1.8E+05

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	Diatom Concentration (valves/cc)							Lithology	Number of traverses (22 mm * 0.4 mm) counted
		<i>Aulacoseira italica</i>	<i>Aulacoseira</i> sp. 1 (small valves)	<i>Cyclotella</i> cf. <i>stelligera</i>	Miscellaneous large pennates	Miscellaneous small pennates	<i>Tabellaria</i> spp.	Total freshwater diatoms		
15	BR94E-15	1.3E+05	1.5E+05	6.4E+04	7.9E+05	9.0E+04	1.4E+06	Massive mud	20	
20	BR94E-20	4.1E+06	6.4E+04	2.8E+05	1.5E+06	4.4E+05	6.4E+06	Plant detritus bed	20	
25	BR94E-25	1.5E+06		3.4E+05	2.7E+06	1.4E+06	6.1E+06	Massive mud	20	
30	BR94E-30	4.3E+04	4.3E+03	3.9E+04	1.6E+05	3.4E+04	1.7E+06	Black organic ooze	20	
35	BR94E-35	1.3E+05		2.6E+05	5.2E+05	1.9E+05	1.1E+06	Massive mud	20	
40	BR94E-40			3.6E+05	1.0E+06	2.6E+05	1.9E+06	Massive mud	20	
45	BR94E-45	1.3E+05		4.4E+05	2.4E+06	4.0E+05	3.5E+06	Massive mud	20	
48	BR94E-48	9.0E+05		6.6E+05	3.5E+06	1.0E+06	6.3E+06	Massive mud	20	
50	BR94E-50	3.2E+06		5.3E+05	3.3E+06	1.0E+06	8.2E+06	Massive mud	20	
52	BR94E-52	6.4E+04	1.0E+06	3.8E+05	1.0E+06	3.2E+04	2.5E+06	Black organic ooze	20	
54	BR94E-54		3.9E+05	1.6E+06	1.4E+06	5.2E+04	3.8E+06	Massive gyttja	20	
56	BR94E-56	5.2E+05	3.6E+06	1.5E+06	5.8E+06	3.9E+05	1.2E+07	Massive gyttja	20	
58	BR94E-58		2.1E+06	2.2E+05	9.9E+05	6.4E+04	3.4E+06	Massive gyttja	20	
60	BR94E-60	1.3E+04	2.7E+06	3.0E+05	1.8E+06	1.3E+05	5.1E+06	Plant detritus bed	20	
62	BR94E-62	1.3E+05	3.7E+06	1.3E+05	1.1E+06	7.7E+04	5.2E+06	Massive mud	20	
64	BR94E-64	1.3E+07	2.1E+06	5.9E+05	7.1E+06	1.7E+06	2.5E+07	Massive mud	20	
66	BR94E-66	2.6E+05	4.9E+06	1.0E+06	6.6E+06	1.5E+06	1.5E+07	Massive mud	20	
70	BR94E-70	5.2E+05	1.0E+05	1.5E+06	6.9E+06	1.1E+06	1.1E+07	Massive mud	20	
75	BR94E-75	2.1E+06		3.4E+05	2.3E+06	2.8E+05	4.9E+06	Massive mud	20	
80	BR94E-80	2.6E+04		2.8E+05	1.2E+06	1.0E+05	1.6E+06	Massive mud	20	
85	BR94E-85	1.3E+05		3.4E+05	2.0E+06	3.4E+05	2.9E+06	Massive mud	20	
90	BR94F-90	5.2E+05	1.3E+04	2.1E+05	1.1E+06	1.2E+05	2.0E+06	Intermittently laminated mud	20	
95	BR94F-95	6.4E+04	9.0E+04	1.9E+05	1.2E+06	1.2E+05	1.7E+06	Intermittently laminated mud	20	
98	BR94F-98	6.4E+04	4.5E+05	7.7E+04	1.1E+06	2.1E+05	1.9E+06	Finely laminated mud	20	
100	BR94F-100	1.4E+06	1.7E+05	1.9E+05	9.9E+05	9.0E+04	2.8E+06	Massive gyttja	20	
102	BR94E-102	3.1E+06	5.2E+05	3.4E+05	3.6E+06	4.1E+05	8.0E+06	Massive gyttja	20	
104	BR94E-104	2.3E+05	2.1E+05	4.6E+05	1.8E+06	2.3E+05	2.9E+06	Massive gyttja	20	
106	BR94E-106	2.2E+06	5.9E+05	9.8E+05	4.3E+06	1.2E+06	9.3E+06	Massive gyttja	20	
111	BR94E-111	1.0E+05	2.8E+05	1.8E+05	1.4E+06	1.3E+05	2.2E+06	Massive gyttja	20	
112	BR94E-112	1.4E+05	2.3E+05	1.0E+05	1.0E+06	2.4E+05	1.8E+06	Massive gyttja	20	
113	BR94E-113	1.3E+04	9.7E+03	6.4E+03	6.8E+04	1.9E+04	1.2E+05	Sand or sandy mud	20	
114	BR94E-114	3.0E+06	2.1E+07	3.4E+06	1.7E+07	5.5E+06	5.0E+07	Massive mud	20	
116	BR94E-116	3.4E+05		3.4E+05	2.0E+06	3.0E+05	3.0E+06	Laminated mud	20	
118	BR94E-118	3.7E+06	6.4E+03	3.2E+05	1.5E+06	1.3E+04	5.6E+06	Laminated mud	20	
120	BR94E-120	6.6E+05	8.0E+05	7.2E+05	3.6E+06	1.4E+05	5.9E+06	Laminated mud	20	
122	BR94E-122	2.6E+06	7.2E+05	1.5E+06	7.5E+06	5.2E+05	1.3E+07	Massive gyttja	20	
130	BR94E-130	1.7E+06	4.4E+05	2.8E+05	1.8E+06	1.8E+05	4.6E+06	Laminated mud	20	
135	BR94E-135	2.8E+06	1.3E+05	2.3E+05	2.1E+06	2.6E+04	5.4E+06	Laminated mud	20	
140	BR94E-140	1.9E+07	1.4E+06	1.5E+06	1.2E+07	4.1E+05	3.4E+07	Laminated mud	20	
145	BR94E-145	2.7E+06	2.6E+04	1.9E+05	1.8E+06	3.4E+05	5.2E+06	Laminated mud	20	
150	BR94E-150	2.6E+06	2.4E+06	7.7E+05	5.9E+06	8.8E+05	1.4E+07	Laminated mud	20	

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	Diatom Concentration (valves/cc)							Lithology	Number of traverses (22 mm * 0.4 mm) counted
		<i>Aulacoseira italica</i>	<i>Aulacoseira</i> sp. 1 (small valves)	<i>Cyclotella</i> cf. <i>stelligera</i>	Miscellaneous large pennates	Miscellaneous small pennates	<i>Tabellaria</i> spp.	Total freshwater diatoms		
155	BR94E-155	2.6E+05	2.6E+05	9.0E+05	1.7E+06	2.3E+05	3.8E+06	Massive gyttja	20	
157	BR94E-157	1.5E+06	7.7E+04	1.8E+06	6.4E+06	8.8E+05	1.2E+07	Massive gyttja	20	
158.5	BR94E-159	1.5E+06	3.9E+04	4.1E+05	3.1E+06	3.5E+05	5.9E+06	Massive gyttja	20	
160	BR94E-160	5.2E+06	2.6E+04	1.3E+06	7.2E+06	1.2E+06	1.7E+07	Massive gyttja	10	
162	BR94E-162	3.7E+06	2.6E+04	5.5E+05	4.7E+06	7.6E+05	1.0E+07	Massive mud	20	
165	BR94E-165	1.2E+07	1.0E+05	6.2E+05	4.0E+06	1.2E+06	2.0E+07	Massive mud	20	
170	BR94E-170	1.6E+07	7.0E+05	3.2E+05	4.3E+06	6.6E+05	2.5E+07	Massive mud	20	
175	BR94E-175	1.7E+07	5.5E+05	4.5E+05	2.5E+06	5.3E+05	2.1E+07	Intermittently laminated mud	20	
180	BR94E-180	1.4E+07		9.3E+05	3.9E+06	5.9E+05	2.0E+07	Intermittently laminated mud	20	
184	BR94E-184	7.7E+05	5.2E+04	5.5E+05	6.1E+05	5.2E+04	2.5E+06	Finely laminated mud	20	
186	BR94E-186	1.8E+06	1.7E+04	9.9E+04	4.9E+05	4.3E+04	2.4E+06	Finely laminated mud	20	
188	BR94E-188	3.2E+05	1.2E+05	6.4E+04	2.9E+05		9.4E+05	Massive gyttja	20	
190	BR94E-190	5.8E+05	1.9E+05	5.8E+04	4.6E+05	2.6E+04	1.7E+06	Massive gyttja	20	
192	BR94E-192	7.7E+05	2.0E+05	8.6E+04	4.3E+05	4.3E+04	1.9E+06	Massive gyttja	20	
194	BR94E-194	7.7E+05	1.6E+05	5.2E+04	4.9E+05	4.1E+04	1.8E+06	Sandy mud	20	
196	BR94E-196	7.1E+05	2.3E+05	4.5E+04	5.1E+05	2.6E+04	1.7E+06	Sandy mud	20	
198	BR94E-198	4.6E+05	3.9E+05	2.1E+04	3.9E+05	3.1E+04	1.3E+06	Massive mud	20	
200	BR94E-200	6.7E+05	1.2E+05	2.6E+04	2.6E+05	5.2E+03	1.1E+06	Muddy sand	20	
201	BR94E-201	6.4E+04	5.2E+05	9.7E+04	5.9E+05	4.5E+04	1.3E+06	Massive gyttja	14	
203	BR94E-203	5.2E+05	1.2E+05	1.8E+05	4.6E+05	1.3E+04	1.3E+06	Massive gyttja	14	
205	BR94E-205	3.6E+05	4.1E+04	6.2E+04	3.1E+05	4.1E+04	8.8E+05	Medium-fine sand	14	
207	BR94E-207	2.1E+04	3.7E+04	6.4E+03	6.9E+04		1.9E+05	Medium-fine sand	14	
210	BR94E-210	6.4E+05	1.4E+06	1.9E+05	8.6E+05	9.0E+04	3.2E+06	Massive mud	20	
215	BR94E-215	1.3E+06	1.5E+06	2.6E+04	1.1E+06	5.2E+04	5.8E+06	Laminated mud	20	
220	BR94E-220	3.9E+06	5.6E+06	1.2E+05	7.7E+05	1.3E+04	1.2E+07	Laminated mud	20	
222	BR94E-222	1.8E+06	1.8E+06	7.7E+04	5.4E+05	5.2E+04	6.4E+06	Laminated mud	20	
225	BR94E-225	1.3E+06	2.6E+06	2.1E+05	1.6E+06	1.0E+05	8.8E+06	Laminated mud	20	
230	BR94E-230	1.5E+06	1.3E+06	3.4E+05	2.9E+06	5.2E+04	1.1E+08	Massive mud	20	
235	BR94E-235	9.5E+06	4.6E+06	2.1E+05	1.8E+06	1.0E+05	1.7E+07	Laminated mud	20	
240	BR94E-240	2.1E+07	1.8E+06	7.7E+04	3.1E+06	2.6E+04	2.8E+07	Laminated mud	20	
245	BR94E-245	2.6E+06	1.3E+06	2.3E+05	1.4E+06	1.3E+05	1.1E+07	Laminated mud	20	
250	BR94E-250	2.3E+05	5.2E+04	2.6E+04	3.9E+05	1.3E+04	8.9E+05	Laminated mud	20	
255	BR94E-255	4.6E+05	2.6E+04	5.2E+04	3.6E+05	2.6E+04	2.1E+06	Laminated mud	20	
260	BR94E-260	7.7E+05	9.0E+04	6.4E+04	4.8E+05	5.2E+04	1.8E+06	Laminated mud	20	
265	BR94E-265	5.0E+06	2.6E+06	2.2E+05	1.2E+06	6.4E+04	9.7E+06	Laminated mud	20	
270	BR94E-270	3.9E+06	2.6E+05	2.6E+05	1.7E+06	2.6E+04	8.3E+06	Laminated mud	20	
275	BR94E-275	2.6E+07	5.4E+06	3.9E+05	2.7E+06	1.3E+05	3.9E+07	Laminated mud	20	
280	BR94E-280	6.4E+06	9.1E+05	9.0E+05	2.3E+06	5.2E+04	2.5E+07	Laminated mud	20	
285	BR94E-285	6.7E+06	5.2E+05	4.5E+05	2.5E+06	1.7E+05	1.5E+07	Laminated mud	20	
290	BR94E-290	6.2E+06	5.2E+05	1.1E+06	1.0E+07	5.2E+05	2.5E+07	Laminated mud	20	
292	BR94E-292	5.4E+06	1.0E+06	5.8E+05	5.1E+06	2.6E+05	1.3E+07	Laminated mud	20	
294	BR94E-294	7.0E+06	7.7E+05	9.0E+05	1.2E+07	5.7E+05	2.3E+07	Laminated mud	20	

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	<i>Aulacoseira</i>	<i>Aulacoseira</i> sp. 1 (small valves)	<i>Cyclotella</i> cf. <i>stelligera</i>	Miscellaneous large pennates	Miscellaneous small pennates	<i>Tabellaria</i> spp.	Total freshwater diatoms	Lithology	Number of traverses (22 mm * 0.4 mm) counted
296	BR94E-296	9.7E+04	1.6E+05	8.4E+04	6.3E+05	6.1E+04	1.8E+06		Finely laminated mud	20
298	BR94E-298	1.4E+06	7.7E+05	5.4E+05	1.9E+06	6.4E+04	6.8E+06		Massive gyttja	20
300	BR94E-300	9.3E+05	2.4E+05	2.1E+05	1.0E+06	7.7E+04	3.1E+06		Massive gyttja	20
301	BR94E-301	7.7E+05	4.3E+05	1.7E+05	1.1E+06	7.7E+04	3.7E+06		Massive gyttja	20
302	BR94E-302	8.6E+04	8.6E+04	5.2E+04	3.3E+05	1.7E+04	8.7E+05		Sand or sandy mud	20
304	BR94E-304	2.6E+06	2.1E+06	2.2E+05	1.2E+06	2.6E+04	6.6E+06		Massive mud	20
306	BR94E-306	3.6E+06	5.2E+05	7.7E+05	6.0E+06	1.3E+06	1.9E+07		Laminated mud	20
310	BR94E-310	3.9E+06	7.7E+05	5.7E+05	1.9E+06	3.9E+05	1.2E+07		Massive mud	20
315	BR94E-315	1.5E+06		3.6E+05	1.4E+06	2.3E+05	7.9E+06		Laminated mud	20
320	BR94E-320	7.7E+05		4.5E+05	1.4E+06	9.0E+04	7.7E+06		Intermittently laminated mud	20
324	BR94E-324	5.0E+06		2.1E+05	1.4E+06	2.6E+05	6.9E+06		Intermittently laminated mud	20
326	BR94E-326	4.6E+06		3.4E+05	2.8E+06	1.0E+05	7.9E+06		Laminated mud	20
328	BR94E-328	3.2E+06		6.2E+05	2.1E+06	9.0E+04	6.2E+06		Finely laminated mud	20
330	BR94E-330	8.8E+05		6.2E+04	5.6E+05	5.2E+04	1.6E+06		Finely laminated mud	20
332	BR94E-332		1.0E+04	1.8E+05	1.0E+06	5.2E+04	1.2E+06		Massive gyttja	20
334	BR94E-334	3.3E+05	3.0E+05	2.4E+05	1.1E+06	6.4E+04	2.0E+06		Massive gyttja	20
335	BR94E-335	6.1E+05	9.9E+05	1.8E+05	1.3E+06	1.4E+05	3.3E+06		Sand or sandy mud	20
338	BR94E-338	6.4E+03	1.7E+04		1.9E+04	2.1E+03	4.5E+04		Sand or sandy mud	20
340	BR94E-340	2.6E+05	2.1E+05	2.7E+05	2.4E+06	1.0E+05	3.3E+06		Intermittently laminated mud	20
344	BR94E-344	5.1E+05	6.6E+05	3.0E+05	2.1E+06	2.0E+05	3.9E+06		Intermittently laminated mud	20
350	BR94E-350	2.2E+06	1.3E+06	8.1E+05	8.0E+06	3.0E+05	1.4E+07		Laminated mud	20
360	BR95BB-268	1.3E+05	1.3E+06	1.0E+05	1.7E+06	1.1E+05	3.3E+06		Massive mud	14
362	BR95BB-270	1.3E+05	1.3E+06	1.4E+05	1.1E+06	8.2E+04	2.7E+06		Massive mud	14
363	BR95BB-271	9.4E+05	1.0E+06	1.6E+05	1.9E+06	5.7E+04	4.0E+06		Finely laminated mud	14
364	BR95BB-272	1.3E+05	1.9E+05	4.0E+05	1.5E+06	3.8E+04	2.6E+06		Massive gyttja	14
365	BR95BB-273	8.2E+05	4.7E+05	2.6E+05	1.1E+06	9.4E+04	2.8E+06		Massive gyttja	14
366	BR95BB-274	1.1E+06	9.4E+05	2.6E+05	8.4E+05	1.2E+05	3.3E+06		Massive gyttja	14
368	BR95BB-276	1.3E+04	2.1E+05	1.1E+05	7.7E+05	6.9E+04	1.2E+06		Massive gyttja	14
372	BR95BB-280	1.3E+05	1.8E+05	2.3E+05	1.0E+06	1.9E+05	1.8E+06		Laminated mud	15
382	BR95BB-290	2.0E+06	9.5E+05	1.9E+04	1.0E+06	8.8E+04	4.1E+06		Laminated mud	14
387	BR95BB-295	9.4E+05	2.5E+05	1.3E+05	9.7E+05	7.5E+04	2.4E+06		Laminated mud	14
393	BR95BB-301	2.2E+06	3.8E+05	1.0E+05	8.7E+05	1.2E+05	3.8E+06		Massive mud	14
394	BR95BB-302	5.1E+06	5.0E+05	8.2E+04	1.3E+06	1.3E+05	7.2E+06		Finely laminated mud	14
395	BR95BB-303	3.7E+06	1.8E+06	1.6E+05	1.3E+06	1.8E+05	7.3E+06		Massive gyttja	14
396	BR95BB-304	5.0E+05	4.4E+05	1.4E+05	1.1E+06	1.6E+05	2.4E+06		Finely laminated mud	14
397	BR95BB-305	9.4E+05	8.8E+05	2.5E+05	1.4E+06	1.1E+05	3.6E+06		Massive gyttja	14
398	BR95BB-306	1.9E+05	1.9E+05	2.0E+05	5.9E+05	6.9E+04	1.3E+06		Massive gyttja	14
400	BR95BB-308	9.4E+05	1.3E+06	3.7E+05	2.0E+06	2.3E+05	4.9E+06		Massive gyttja	14
402	BR95BB-310	9.4E+05	6.3E+05	3.2E+05	1.0E+06	8.2E+04	3.1E+06		Intermittently laminated mud	14
407	BR95BB-315	8.8E+05	2.5E+05	2.6E+05	1.2E+06	1.0E+05	2.8E+06		Massive mud	14
412	BR95BB-320	3.8E+05	1.3E+05	8.2E+04	5.6E+05	7.5E+04	1.3E+06		Massive mud	14
430	BR94E-430	2.2E+06	5.2E+05	2.9E+05	1.9E+06	1.4E+05	5.5E+06		Intermittently laminated mud	14

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	Diatom Concentration (valves/cc)							Lithology	Number of traverses (22 mm * 0.4 mm) counted
		<i>Aulacoseira italica</i>	<i>Aulacoseira</i> sp. 1 (small valves)	<i>Cyclotella</i> cf. <i>stelligera</i>	Miscellaneous large pennates	Miscellaneous small pennates	<i>Tabellaria</i> spp.	Total freshwater diatoms		
433	BR94E-433	1.3E+04		4.5E+04	1.8E+05		3.4E+05		Finely laminated mud	14
435	BR94E-435	1.3E+04		4.0E+05	7.6E+05	1.4E+05	1.8E+06		Massive gyttja	14
436.5	BR94E-437	2.1E+05	1.5E+05	9.0E+04	7.7E+05	1.2E+05	1.5E+06		Massive gyttja	14
437.5	BR94E-438	1.1E+07	3.0E+06	1.5E+06	9.4E+06	1.2E+06	2.9E+07		Massive gyttja	14
438.5	BR94E-439	2.3E+06	1.1E+05	3.7E+05	2.5E+06	5.5E+05	6.5E+06		Plant detritus bed	14
440	BR94E-440	2.4E+06	2.0E+05	2.6E+05	1.3E+06	2.8E+05	4.6E+06		Massive mud	14
445	BR94E-445	1.7E+06	5.4E+05	2.1E+05	4.0E+06	2.8E+05	8.9E+06		Massive mud	14
450	BR94E-450	2.2E+06		3.1E+05	1.9E+06	4.6E+05	2.7E+07		Laminated mud	14
454	BR94E-454		2.6E+04	4.3E+05	4.0E+05	2.6E+04	2.3E+07		Intermittently laminated mud	14
458	BR94E-458			1.7E+05	3.5E+05	9.0E+04	6.6E+06		Laminated mud	14
460	BR94E-460		3.2E+03	1.7E+05	5.1E+05	6.4E+03	2.6E+06		Finely laminated mud	14
462	BR94E-462	6.4E+04	1.9E+04	1.7E+05	4.5E+05	1.9E+04	3.0E+06		Massive gyttja	14
464	BR94E-464	2.1E+04	3.0E+04	9.9E+04	3.9E+05	2.6E+04	1.6E+06		Massive gyttja	14
466	BR94E-466	1.6E+04	8.1E+03	1.9E+04	9.7E+04	3.2E+03	2.9E+05		Sand or sandy mud	14
470	BR94E-470	6.4E+04	7.1E+04	1.6E+05	5.7E+05	3.2E+04	1.8E+06		Massive mud	14
473	BR95X-437	1.3E+05	1.3E+04	5.0E+04	6.3E+05		5.5E+06		Massive mud	14
476	BR95X-440			5.0E+04	4.3E+05	2.5E+04	3.3E+06		Laminated mud	14
478	BR95X-442	6.3E+04		1.0E+05	9.7E+05	2.5E+04	8.1E+06		Laminated mud	14
480	BR95X-444	6.3E+04		1.5E+05	3.8E+05	1.3E+04	1.1E+06		Finely laminated mud	14
482	BR95X-446	1.3E+05	3.6E+05	5.0E+04	4.0E+05		9.4E+05		Finely laminated mud	14
484	BR95X-448	3.8E+05		7.5E+04	3.3E+05	1.3E+04	8.5E+05		Finely laminated mud	14
484.5	BR95X-449	2.5E+05	1.6E+05	7.0E+05	2.0E+06	2.5E+05	4.5E+06		Massive gyttja	14
485	BR95X-449	7.5E+05	2.1E+05	1.4E+05	5.5E+05	1.0E+05	1.8E+06		Massive gyttja	14
486	BR95X-450	5.3E+06	7.5E+05	1.0E+05	8.8E+05	1.9E+05	7.3E+06		Massive mud	14
489	BR95X-453	1.6E+06	5.4E+05	1.1E+05	5.4E+05	5.0E+04	3.2E+06		Intermittently laminated mud	14
491	BR95X-455	2.5E+05	7.5E+04	1.1E+05	4.9E+05	5.0E+04	2.0E+06		Intermittently laminated mud	14
492	BR95X-456	3.8E+05	5.5E+05	2.6E+05	1.1E+06	8.8E+04	2.4E+06		Massive gyttja	14
493	BR95X-457	3.8E+05	3.4E+05	2.6E+05	3.6E+05	5.0E+04	1.4E+06		Massive gyttja	14
494	BR95X-458	1.0E+06	4.8E+05	1.1E+05	8.8E+05	1.0E+05	2.7E+06		Massive gyttja	14
495	BR95X-459	2.5E+06	1.6E+06	1.9E+05	1.8E+06	3.6E+05	6.7E+06		Massive gyttja	14
496	BR95X-460	6.7E+06	6.2E+06	4.3E+05	2.3E+06	2.3E+05	1.6E+07		Massive mud	14
498	BR95X-462	5.3E+06	5.1E+06	2.8E+05	2.0E+06	2.8E+05	1.3E+07		Massive mud	14
515	BR94E-515	2.2E+07	3.3E+06	6.7E+05	3.6E+06	5.8E+05	3.0E+07		Massive mud	14
525	BR94E-525	4.6E+06	2.1E+06	5.9E+05	2.4E+06	5.2E+05	1.1E+07		Laminated mud	14
530	BR94E-530	1.0E+07	9.0E+05	1.5E+05	2.0E+06	6.4E+05	1.4E+07		Laminated mud	14
533	BR94E-533	1.7E+07	5.2E+06	3.1E+06	1.1E+07	2.4E+06	3.9E+07		Laminated mud	14
535	BR94E-535	7.9E+06	8.2E+05	8.4E+05	2.6E+06	4.3E+05	1.3E+07		Laminated mud	14
536.5	BR94E-537	1.1E+07	2.0E+06	8.1E+06	1.2E+07	1.6E+06	3.6E+07		Massive gyttja	14
538	BR94E-538	4.4E+06	1.9E+06	7.4E+06	7.7E+06	6.3E+05	2.5E+07		Massive gyttja	14
540	BR94E-540	2.5E+06	6.0E+05	5.6E+05	2.2E+06	1.6E+05	6.4E+06		Plant detritus bed	14
550	BR94E-550	1.0E+07	3.5E+06	9.5E+05	3.7E+06	9.0E+05	2.0E+07		Laminated mud	14
560	BR94E-560	5.4E+06	2.7E+05	4.6E+05	1.9E+06	1.5E+05	8.7E+06		Intermittently laminated mud	14

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	Diatom Concentration (valves/cc)							Lithology	Number of traverses (22 mm * 0.4 mm) counted
		<i>Aulacoseira italica</i>	<i>Aulacoseira</i> sp. 1 (small valves)	<i>Cyclotella</i> cf. <i>stelligera</i>	Miscellaneous large pennates	Miscellaneous small pennates	<i>Tabellaria</i> spp.	Total freshwater diatoms		
570	BR94E-570	3.6E+06	9.3E+05	2.3E+05	2.1E+06	1.3E+05	7.8E+06		Intermittently laminated mud	14
580	BR94E-580	2.2E+06	1.8E+05	2.6E+05	1.7E+06	3.4E+05	6.9E+06		Intermittently laminated mud	14
585	BR94E-585	1.1E+07	2.2E+05	1.2E+06	5.4E+06	6.7E+05	2.6E+07		Massive mud	14
590	BR94E-590	5.9E+06	9.0E+04	5.5E+05	1.4E+06	3.9E+04	3.6E+07		Massive mud	14
595	BR94E-595	4.3E+04		7.7E+04	1.8E+05	1.3E+04	2.5E+06		Finely laminated mud	20
600	BR94E-600	1.3E+05	8.6E+03	1.3E+05	2.7E+05	8.6E+03	1.3E+06		Finely laminated mud	20
602.5	BR94E-603	6.6E+06	1.2E+06	3.0E+06	8.7E+06	9.4E+05	2.3E+07		Intermittently laminated mud	20
605	BR94E-605	5.8E+05	4.5E+04	2.4E+05	7.6E+05	7.7E+04	1.8E+06		Intermittently laminated mud	20
606	BR94E-607	2.9E+07	2.0E+06	8.7E+06	2.3E+07	2.3E+06	6.7E+07		Massive gyttja	20
608	BR94E-608	1.4E+07	1.4E+06	5.9E+06	1.6E+07	9.4E+04	3.8E+07		Plant detritus bed	20
610	BR94E-610	7.9E+05	8.2E+04	2.5E+05	6.6E+05	5.2E+03	1.8E+06		Massive mud	20
615	BR94E-615	6.7E+05	7.2E+04	3.3E+05	1.0E+06	1.6E+05	2.5E+06		Massive mud	20
620	BR94E-620	7.7E+06	2.6E+04	7.5E+05	2.0E+06	1.4E+05	1.1E+07		Massive mud	20
624	BR94E-624	1.9E+06	7.7E+04	8.1E+05	1.8E+06	6.4E+04	9.4E+06		Massive mud	20
628	BR94E-628	9.8E+06	1.1E+06	9.0E+05	4.7E+06	1.5E+05	5.3E+07		Finely laminated mud (very fair)	20
630	BR94E-630	6.4E+04	1.1E+05	9.0E+04	1.9E+05	6.4E+03	2.0E+06		Finely laminated mud (very fair)	20
632	BR94E-632			1.2E+05	2.5E+05		4.5E+05		Finely laminated mud (very fair)	20
634	BR94E-634			4.1E+04	1.3E+05	3.7E+03	2.0E+05		Sand or sandy mud	20
636	BR94E-636			6.3E+05	3.0E+06		3.7E+06		Massive mud	20
640	BR94E-640			4.3E+05	4.6E+06	1.3E+04	5.1E+06		Muddy peat	20
650	BR94E-650			1.3E+04	3.7E+05		3.9E+05		Muddy peat	20
660	BR94E-660			1.2E+06	9.3E+06		1.0E+07		Muddy peat	20
670	BR94E-670			9.8E+05	7.3E+06		8.3E+06		Muddy peat	20
680	BR94E-680			1.8E+05	4.4E+06		4.7E+06		Muddy peat	20
690	BR94E-690			3.2E+05	1.5E+06	5.2E+04	2.1E+06		Muddy peat	20

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	of freshwater diatoms			
		176	1134	Lithology	
15	BR94E-15	176	1134	0.01	16%
20	BR94E-20	176	1134	0.01	16%
25	BR94E-25	176	1134	0.01	16%
30	BR94E-30	176	1134	0.03	16%
35	BR94E-35	176	1134	0.01	16%
40	BR94E-40	176	1134	0.01	16%
45	BR94E-45	176	1134	0.01	16%
48	BR94E-48	176	1134	0.01	16%
50	BR94E-50	176	1134	0.01	16%
52	BR94E-52	176	1134	0.02	16%
54	BR94E-54	176	1134	0.01	16%
56	BR94E-56	176	1134	0.005	16%
58	BR94E-58	176	1134	0.01	16%
60	BR94E-60	176	1134	0.01	16%
62	BR94E-62	176	1134	0.01	16%
64	BR94E-64	176	1134	0.005	16%
66	BR94E-66	176	1134	0.005	16%
70	BR94E-70	176	1134	0.005	16%
75	BR94E-75	176	1134	0.005	16%
80	BR94E-80	176	1134	0.01	16%
85	BR94E-85	176	1134	0.01	16%
90	BR94F-90	176	1134	0.01	16%
95	BR94F-95	176	1134	0.01	16%
98	BR94F-98	176	1134	0.01	16%
100	BR94F-100	176	1134	0.01	16%
102	BR94E-102	176	1134	0.01	16%
104	BR94E-104	176	1134	0.01	16%
106	BR94E-106	176	1134	0.01	16%
111	BR94E-111	176	1134	0.01	16%
112	BR94E-112	176	1134	0.02	16%
113	BR94E-113	176	1134	0.08	16%
114	BR94E-114	176	1134	0.0025	16%
116	BR94E-116	176	1134	0.015	16%
118	BR94E-118	176	1134	0.02	16%
120	BR94E-120	176	1134	0.01	16%
122	BR94E-122	176	1134	0.0025	16%
130	BR94E-130	176	1134	0.01	16%
135	BR94E-135	176	1134	0.005	16%
140	BR94E-140	176	1134	0.0025	16%
145	BR94E-145	176	1134	0.01	16%
150	BR94E-150	176	1134	0.01	16%

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	of freshwater diatoms			
		176	1134	Lithology	
155	BR94E-155	176	1134	0.01	16%
157	BR94E-157	176	1134	0.01	16%
158.5	BR94E-159	176	1134	0.02	16%
160	BR94E-160	176	1134	0.01	16%
162	BR94E-162	176	1134	0.02	16%
165	BR94E-165	176	1134	0.005	16%
170	BR94E-170	176	1134	0.01	16%
175	BR94E-175	176	1134	0.01	16%
180	BR94E-180	176	1134	0.005	16%
184	BR94E-184	176	1134	0.01	16%
186	BR94E-186	176	1134	0.03	16%
188	BR94E-188	176	1134	0.02	16%
190	BR94E-190	176	1134	0.02	16%
192	BR94E-192	176	1134	0.015	16%
194	BR94E-194	176	1134	0.025	16%
196	BR94E-196	176	1134	0.02	16%
198	BR94E-198	176	1134	0.025	16%
200	BR94E-200	176	1134	0.025	16%
201	BR94E-201	123.2	1134	0.02	12%
203	BR94E-203	123.2	1134	0.01	12%
205	BR94E-205	123.2	1134	0.025	12%
207	BR94E-207	123.2	1134	0.06	12%
210	BR94E-210	176	1134	0.02	16%
215	BR94E-215	176	1134	0.005	16%
220	BR94E-220	176	1134	0.01	16%
222	BR94E-222	176	1134	0.005	16%
225	BR94E-225	176	1134	0.005	16%
230	BR94E-230	176	1134	0.005	16%
235	BR94E-235	176	1134	0.005	16%
240	BR94E-240	176	1134	0.005	16%
245	BR94E-245	176	1134	0.005	16%
250	BR94E-250	176	1134	0.01	16%
255	BR94E-255	176	1134	0.005	16%
260	BR94E-260	176	1134	0.01	16%
265	BR94E-265	176	1134	0.01	16%
270	BR94E-270	176	1134	0.015	16%
275	BR94E-275	176	1134	0.01	16%
280	BR94E-280	176	1134	0.01	16%
285	BR94E-285	176	1134	0.01	16%
290	BR94E-290	176	1134	0.005	16%
292	BR94E-292	176	1134	0.01	16%
294	BR94E-294	176	1134	0.005	16%

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	of freshwater diatoms			
		176	1134	Lithology	
296	BR94E-296	176	1134	0.04	16%
298	BR94E-298	176	1134	0.01	16%
300	BR94E-300	176	1134	0.025	16%
301	BR94E-301	176	1134	0.015	16%
302	BR94E-302	176	1134	0.015	16%
304	BR94E-304	176	1134	0.01	16%
306	BR94E-306	176	1134	0.01	16%
310	BR94E-310	176	1134	0.01	16%
315	BR94E-315	176	1134	0.02	16%
320	BR94E-320	176	1134	0.01	16%
324	BR94E-324	176	1134	0.005	16%
326	BR94E-326	176	1134	0.01	16%
328	BR94E-328	176	1134	0.01	16%
330	BR94E-330	176	1134	0.025	16%
332	BR94E-332	176	1134	0.025	16%
334	BR94E-334	176	1134	0.02	16%
335	BR94E-335	176	1134	0.02	16%
338	BR94E-338	176	1134	0.12	16%
340	BR94E-340	176	1134	0.015	16%
344	BR94E-344	176	1134	0.025	16%
350	BR94E-350	176	1134	0.01	16%
360	BR95BB-268	123.2	3316	0.06	4%
362	BR95BB-270	123.2	3316	0.06	4%
363	BR95BB-271	123.2	3316	0.06	4%
364	BR95BB-272	123.2	3316	0.06	4%
365	BR95BB-273	123.2	3316	0.06	4%
366	BR95BB-274	123.2	3316	0.06	4%
368	BR95BB-276	123.2	3316	0.06	4%
372	BR95BB-280	123.2	3316	0.06	4%
382	BR95BB-290	123.2	3316	0.06	4%
387	BR95BB-295	123.2	3316	0.06	4%
393	BR95BB-301	123.2	3316	0.06	4%
394	BR95BB-302	123.2	3316	0.06	4%
395	BR95BB-303	123.2	3316	0.06	4%
396	BR95BB-304	123.2	3316	0.06	4%
397	BR95BB-305	123.2	3316	0.06	4%
398	BR95BB-306	123.2	3316	0.06	4%
400	BR95BB-308	123.2	3316	0.06	4%
402	BR95BB-310	123.2	3316	0.06	4%
407	BR95BB-315	123.2	3316	0.06	4%
412	BR95BB-320	123.2	3316	0.06	4%
430	BR94E-430	123.2	1134	0.02	11%

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	of freshwater diatoms			
				Lithology	
433	BR94E-433	123.2	1134	0.02	11%
435	BR94E-435	123.2	1134	0.02	11%
436.5	BR94E-437	123.2	1134	0.01	11%
437.5	BR94E-438	123.2	3316	0.006	4%
438.5	BR94E-439	123.2	1134	0.015	11%
440	BR94E-440	123.2	1134	0.03	11%
445	BR94E-445	123.2	1134	0.01	11%
450	BR94E-450	123.2	1134	0.01	11%
454	BR94E-454	123.2	1134	0.01	11%
458	BR94E-458	123.2	1134	0.03	11%
460	BR94E-460	123.2	1134	0.04	11%
462	BR94E-462	123.2	1134	0.02	11%
464	BR94E-464	123.2	1134	0.03	11%
466	BR94E-466	123.2	1134	0.08	11%
470	BR94E-470	123.2	1134	0.03	16%
473	BR95X-437	123.2	3316	0.06	4%
476	BR95X-440	123.2	3316	0.06	4%
478	BR95X-442	123.2	3316	0.06	4%
480	BR95X-444	123.2	3316	0.06	4%
482	BR95X-446	123.2	3316	0.06	4%
484	BR95X-448	123.2	3316	0.06	4%
484.5	BR95X-449	123.2	3316	0.06	4%
485	BR95X-449	123.2	3316	0.06	4%
486	BR95X-450	123.2	3316	0.06	4%
489	BR95X-453	123.2	3316	0.06	4%
491	BR95X-455	123.2	3316	0.06	4%
492	BR95X-456	123.2	3316	0.06	4%
493	BR95X-457	123.2	3316	0.06	4%
494	BR95X-458	123.2	3316	0.06	4%
495	BR95X-459	123.2	3316	0.06	4%
496	BR95X-460	123.2	3316	0.06	4%
498	BR95X-462	123.2	3316	0.06	4%
515	BR94E-515	123.2	1134	0.01	11%
525	BR94E-525	123.2	1134	0.015	11%
530	BR94E-530	123.2	1134	0.015	11%
533	BR94E-533	123.2	3316	0.006	4%
535	BR94E-535	123.2	1134	0.01	11%
536.5	BR94E-537	123.2	3316	0.006	4%
538	BR94E-538	123.2	3316	0.006	4%
540	BR94E-540	123.2	1134	0.015	11%
550	BR94E-550	123.2	1134	0.01	11%
560	BR94E-560	123.2	1134	0.01	11%

Appendix 3. Downcore diatom data from Bradley Lake (diatom concentration in valves per cc of sediment).

Depth in core (cm)	Sample ID	of freshwater diatoms			
				Lithology	
570	BR94E-570	123.2	1134	0.005	11%
580	BR94E-580	123.2	1134	0.01	11%
585	BR94E-585	123.2	1134	0.01	11%
590	BR94E-590	123.2	1134	0.01	11%
595	BR94E-595	176	1134	0.03	16%
600	BR94E-600	176	1134	0.03	16%
602.5	BR94E-603	176	3316	0.004	5%
605	BR94E-605	176	1134	0.02	16%
606	BR94E-607	176	3316	0.004	5%
608	BR94E-608	176	3316	0.004	5%
610	BR94E-610	176	1134	0.025	16%
615	BR94E-615	176	1134	0.025	16%
620	BR94E-620	176	1134	0.01	16%
624	BR94E-624	176	1134	0.01	16%
628	BR94E-628	176	1134	0.005	16%
630	BR94E-630	176	1134	0.02	16%
632	BR94E-632	176	1134	0.025	16%
634	BR94E-634	176	1134	0.07	16%
636	BR94E-636	176	1134	0.01	16%
640	BR94E-640	176	1134	0.01	16%
650	BR94E-650	176	1134	0.01	16%
660	BR94E-660	176	1134	0.005	16%
670	BR94E-670	176	1134	0.01	16%
680	BR94E-680	176	1134	0.01	16%
690	BR94E-690	176	1134	0.01	16%