

Lake and well characteristics							Water Chemistry and DOC characteristics											Incubation results							Mixing model results												
Lake ID	Size (ha)	Depth (m)	Long (deg)	Lat (deg)	Located within fire perimeter	Fine- or coarse-textured setting	Ec (µS cm-1)	pH	δD (per mil)	δ18O (per mil)	Total N (mg N L-1)	DOC (mg C L-1)	A254 (cm-1)	SUVA (L mg C-1 m-1)	CC (RU mg C-1 L)	CA (RU mg C-1 L)	CX (RU mg C-1 L)	CM (RU mg C-1 L)	CT (RU mg C-1 L)	Dark DOC loss (%)	Dark CO2 loss (%)	Dark A254 loss (%)	Dark Change in SUVA (L mg C-1 m-1)	UV DOC loss (%)	UV CO2 loss (%)	UV A254 loss (%)	UV Change in SUVA (L mg C-1 m-1)	fP (unitless)	fP 95% CI Low boundary	fP 95% CI High boundary	DOCA (%)	DOCA 95% CI Low boundary	DOCA 95% CI High boundary	A254Δ (%)	A254Δ 95% CI Low boundary	A254Δ 95% CI High boundary	
L303	254	1.5	115.118	55.819	No	Fine	208.3	8.47	-93.06	-8.42	1.65	46.22	0.769	1.66	0.048	0.049	0.028	0.036	0.019	1.05	0.68	-2.69	-0.06	1.18	2.67	11.75	-0.17	0.85	0.72	0.90	45	18	51	71	59	74	
L300	13	1.2	115.122	55.871	No	Fine	152.5	7.65	-92.75	-8.65	1.64	54.45	1.253	2.30	0.075	0.076	0.049	0.044	0.014	3.00	0.42	-0.94	-0.09	6.27	3.26	15.38	-0.21	0.91	0.83	0.95	46	18	51	60	42	63	
L301	21	3.0	115.132	55.829	No	Fine	55.3	6.72	-100.77	-9.43	0.97	34.47	0.9	2.61	0.102	0.066	0.064	0.048	0.012	-3.19	0.89	-1.41	0.05	5.41	5.33	19.13	-0.40	1.00	0.98	1.03	65	54	72	71	62	75	
L39	3.5	2.5	115.483	56.062	No	Fine	133.0	9.93	-98.8	-8.1	1.35	24.49	0.412	1.68	0.051	0.040	0.029	0.039	0.024	-5.92	0.74	-0.60	0.09	-1.51	1.32	18.43	-0.33	0.92	0.86	0.95	71	62	77	85	80	87	
L40	0.5	1.0	115.477	56.074	No	Fine	133.1	7.31	-106.46	-9.53	1.60	49.60	1.11	2.24	0.075	0.068	0.046	0.044	0.015	0.34	0.60	-0.22	-0.01	6.24	3.94	17.65	-0.28	0.93	0.87	0.97	52	28	57	63	48	66	
L42	1.5	2.3	115.477	56.060	No	Fine	36.1	7.14	-100.91	-7.61	1.36	23.68	0.557	2.35	0.078	0.049	0.051	0.046	0.018	1.35	1.34	-0.90	-0.05	4.85	5.09	18.09	-0.32	1.02	1.00	1.05	75	68	80	82	77	85	
L43	0.6	0.8	115.470	56.077	No	Fine	62.0	7.20	-93.13	-7.53	1.74	34.98	0.807	2.31	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
L48	2.3	0.9	115.468	56.072	No	Fine	53.7	6.86	-96.11	-7.64	1.63	29.69	0.703	2.37	0.081	0.044	0.050	0.048	0.018	2.55	1.28	-1.93	-0.10	6.44	5.00	18.05	-0.28	1.01	0.98	1.04	70	58	75	79	71	81	
L19	0.8	2.0	115.538	56.083	No	Fine	56.2	7.22	-100.71	-8.26	1.15	19.21	0.474	2.47	0.093	0.047	0.058	0.055	0.025	5.94	0.37	2.82	-0.08	5.58	4.01	No Data	No Data	1.00	0.98	1.03	79	75	85	85	80	87	
L27	4.9	1.0	115.519	56.068	No	Fine	76.7	6.80	-96.48	-8.75	2.60	51.67	1.12	2.17	0.086	0.047	0.050	0.045	0.020	2.20	1.39	0.46	-0.04	7.53	5.67	18.29	-0.24	0.99	0.95	1.01	51	25	54	66	53	69	
L171	10	1.0	115.193	55.983	Yes	Fine	131.4	7.56	-102.94	-10.3	1.81	48.97	1.203	2.46	0.085	0.068	0.055	0.049	0.014	-5.77	1.26	-2.07	0.08	2.59	4.65	18.64	-0.39	0.93	0.86	0.97	52	28	57	61	46	65	
L168	13	1.6	115.204	55.985	Yes	Fine	190.5	9.74	-107.85	-10.22	1.86	52.46	1.191	2.27	0.066	0.061	0.037	0.045	0.016	-0.18	1.26	-1.47	-0.03	6.59	3.78	19.63	-0.31	0.87	0.76	0.92	44	16	50	57	40	62	
L169	330	1.7	115.191	55.968	Yes	Fine	244.0	8.50	-91.5	-7.84	4.39	58.71	0.999	1.70	0.062	0.045	0.034	0.045	0.019	-2.89	No Data	-1.49	0.02	0.48	4.04	13.13	-0.22	0.82	0.66	0.88	36	3	42	61	43	66	
L205	21	1.3	115.154	55.964	Yes	Fine	99.4	7.53	-111.45	-11.18	1.75	44.22	1.272	2.88	0.110	0.078	0.070	0.054	0.010	0.73	1.90	-0.69	-0.04	11.33	5.65	21.97	-0.35	0.96	0.92	0.99	57	39	63	60	45	64	
L162	93	2.0	115.301	55.975	Yes	Fine	354.3	8.14	-97.36	-9.03	1.94	46.40	0.694	1.50	0.046	0.031	0.024	0.031	0.020	4.17	1.42	-3.05	-0.10	2.94	2.55	12.80	-0.13	0.70	0.47	0.80	33	-12	41	68	48	73	
L121	8.5	1.5	115.342	56.010	Yes	Fine	125.7	8.55	-102.43	-9.49	1.45	46.10	1.027	2.23	0.067	0.063	0.043	0.042	0.015	-0.91	1.12	-0.78	0.00	2.16	3.36	15.85	-0.29	0.93	0.88	0.96	50	29	57	65	52	69	
L122	9.1	1.6	115.348	56.005	Yes	Fine	181.9	7.96	-94.51	-7.95	1.95	46.18	0.76	1.65	0.053	0.046	0.032	0.037	0.015	-3.43	0.56	-0.98	0.04	-2.15	3.19	14.46	-0.27	0.88	0.78	0.92	51	29	58	73	62	76	
L118	5.7	1.6	115.382	56.019	Yes	Fine	72.8	7.91	-102.62	-9.21	1.44	40.29	0.913	2.27	0.069	0.051	0.041	0.040	0.015	-0.43	1.34	-2.70	-0.04	5.01	4.58	14.63	-0.20	0.99	0.96	1.00	55	36	61	71	61	75	
L111	4.9	2.0	115.423	56.027	Yes	Fine	237.9	8.89	-100.98	-8.61	1.79	35.58	0.668	1.88	0.060	0.048	0.035	0.040	0.019	-0.05	0.78	0.55	0.01	2.70	4.65	18.78	-0.30	0.82	0.66	0.87	57	39	64	74	63	78	
L112	4.5	1.6	115.430	56.012	Yes	Fine	182.9	9.70	-120.24	-12.98	1.51	49.17	1.342	2.73	0.098	0.070	0.058	0.059	0.015	-2.17	0.44	0.69	0.08	6.69	3.91	25.48	-0.54	0.88	0.78	0.92	50	28	57	55	36	60	
L59	28	1.3	115.377	56.072	Yes	Fine	103.2	No Data	-96.44	-8.59	1.61	36.28	0.714	1.97	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
L1	4.9	2.5	115.617	56.108	No	Coarse	113.3	8.68	-110.91	-10.9	0.66	12.14	0.168	1.38	0.039	0.038	0.024	0.028	0.026	-1.73	No Data	3.93	0.08	-5.42	5.02	15.17	-0.28	0.63	0.46	0.76	79	72	84	90	85	92	
L2	219	4.1	115.603	56.096	No	Coarse	195.5	8.38	-101.95	-9.35	0.74	17.11	0.22	1.29	0.032	0.031	0.018	0.026	0.017	-4.13	No Data	0.00	0.04	-0.64	2.26	10.88	-0.12	0.06	-0.30	0.27	No Data	No Data	No Data	No Data	No Data	No Data	
L7	2.0	1.8	115.582	56.087	No	Coarse	88.3	7.34	-96.94	-7.48	1.51	26.02	0.578	2.22	0.089	0.060	0.053	0.058	0.022	-3.92	0.89	0.72	0.10	1.47	3.83	20.57	-0.44	0.54	0.66	0.95	66	54	74	76	65	80	
L11	0.3	1.5	115.558	56.084	No	Coarse	90.9	7.43	-100.68	-7.51	1.23	31.78	0.698	2.20	0.077	0.060	0.051	0.047	0.016	1.80	0.31	0.22	-0.04	4.26	3.74	19.38	-0.35	0.80	0.65	0.94	63	48	70	73	61	77	
L15	0.9	0.5	115.569	56.086	No	Coarse	27.9	5.53	-109.23	-11.24	2.52	52.93	1.431	2.70	0.106	0.050	0.069	0.046	0.012	1.08	0.59	0.12	-0.03	6.15	4.70	16.06	-0.30	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	
L17	107	5.5	115.548	56.093	No	Coarse	124.5	9.06	-91.31	-6.85	1.14	22.21	0.216	0.97	0.018	0.015	0.009	0.014	0.020	1.63	0.54	1.23	0.00	1.05	1.44	9.82	-0.08	0.54	0.35	0.67	59	40	69	87	80	90	
L5	298	3.3	115.567	56.116	Yes	Coarse	134.0	8.76	-109.99	-10.77	0.65	17.56	0.264	1.50	0.040	0.039	0.023	0.030	0.020	2.49	2.14	0.37	-0.03	3.14	5.47	12.09	-0.13	0.48	0.27	0.63	63	49	75	82	69	87	
L16	29	2.0	115.511	56.108	Yes	Coarse	120.7	8.25	-90.89	-7.69	1.27	23.09	0.307	1.33	0.034	0.018	0.016	0.025	0.023	0.89	1.23	4.39	0.04	-1.11	3.37	16.23	-0.22	0.59	0.40	0.73	62	43	70	83	73	86	
L201	38	2.8	115.709	56.121	Yes	Coarse	163.5	8.16	-100.11	-8.9	1.08	20.26	0.275	1.36	0.038	0.031	0.024	0.027	0.019	-2.22	0.77	0.42	0.03	1.45	2.51	19.33	-0.24	0.29	0.01	0.47	50	-11	63	70	8	82	
L206	13	3.0	115.703	56.130	Yes	Coarse	143.5	7.79	-102.96	-8.67	1.03	23.06	0.36	1.56	0.044	0.039	0.024	0.032	0.022	-1.68	No Data	0.00	0.02	-0.93	1.84	12.77	-0.19	0.42	0.18	0.58	52	13	64	73	46	80	
L208	2.8	1.5	115.707	56.115	Yes	Coarse	66.9	8.55	-102.06	-9.39	1.28	22.87	0.405	1.77	0.053	0.043	0.032	0.037	0.023	-1.31	1.20	-1.16	0.00	2.66	3.96	16.81	-0.25	0.95	0.81	1.11	74	66	80	86	81	87	
Well ID	Peatland or mineral soil well	Long (deg)	Lat (deg)	Located within fire perimeter	Fine- or coarse-textured setting	Ec (µS cm-1)	pH	deltaD (per mil)	delta18O (per mil)	Total N (mg N L-1)	DOC (mg C L-1)	A254 (cm-1)	SUVA (L mg C-1 m-1)	CC (RU mg C-1 L)	CA (RU mg C-1 L)	CX (RU mg C-1 L)	CM (RU mg C-1 L)	CT (RU mg C-1 L)	Dark DOC loss (%)	Dark CO2 loss (%)	Dark A254 loss (%)	Dark Change in SUVA (L mg C-1 m-1)	UV DOC loss (%)	UV CO2 loss (%)	UV A254 loss (%)	UV Change in SUVA (L mg C-1 m-1)	fP (unitless)	fP 95% CI Low boundary	fP 95% CI High boundary	DOCA (%)	DOCA 95% CI Low boundary	DOCA 95% CI High boundary	A254Δ (%)	A254Δ 95% CI Low boundary	A254Δ 95% CI High boundary		
L43-65	Mineral soil	115.477	56.074	No	Fine	2135.0	7.33	-152.68	-18.98	1.21	21.06	0.1	0.47	0.035	0.026	0.015	0.037	0.023	7.77	No Data	-4.05	-0.05	6.75	No Data	12.16	-0.02	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	
L300-6	Mineral soil	115.124	55.873	No	Fine	572.0	7.35	-146.88	-18.32	6.52	36.49	0.239	0.66	0.047	0.022	0.024	0.032	0.017	2.52	No Data	-4.04	-0.04	-0.72	No Data	13.97	-0.08	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	
L16-01P8-15	Mineral soil	115.544	56.104	No	Coarse	421.0	7.83	-155.68	-19.27	0.38	13.62	0.123	0.90	0.066	0.026	0.031	0.043	0.030	10.89	No Data	-2.40	-0.10	5.21	No Data	16.00	-0.08	N/a	N/a	N/a								