

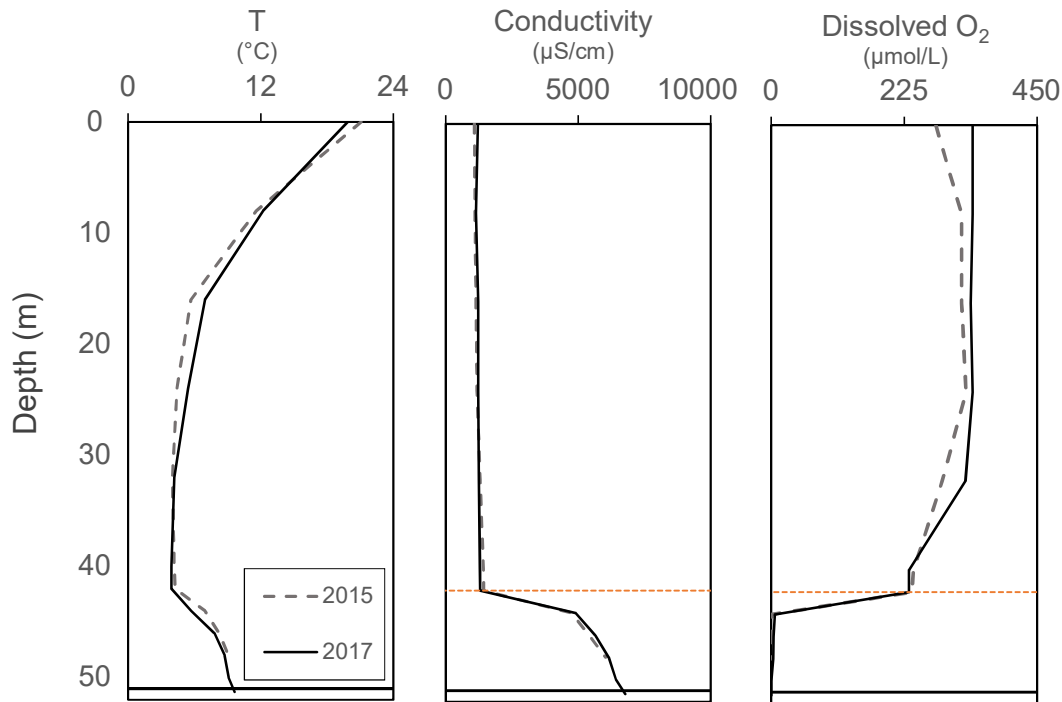
ESI. Fig. S1

Summer 2015

Depth	Temp	Conduct	pH	ORP	DO
0	21.1	1086	7.6	269	278.8
8	11.6	1107	7.8	281	322.2
16	5.7	1140	7.4	270	322.2
24	4.4	1184	7.3	265	329.7
32	4.0	1308	7.1	264	289.4
40	4.2	1425	6.9	262	241.0
42	4.3	1436	6.9	261	237.8
44	6.9	4754	6.8	-58	0.6
46	8.2	5413	6.8	-114	0.6
48	9.1	6031	6.8	-125	0.6

Fall 2017

Depth	Temp	Conduct	pH	ORP	DO
0	19.9	1219	7.9	284	340.6
8	12.2	1143	8.1	282	340.6
16	6.9	1226	8.1	274	337.5
24	5.4	1226	8.0	274	340.6
32	4.2	1258	7.8	272	328.8
40	3.9	1295	7.3	272	233.1
42	3.9	1300	7.3	268	233.1
44	5.7	4904	6.8	-69	5.9
46	7.8	5633	6.9	-111	3.8
48	8.7	6157	6.9	-112	3.1
50	9.1	6423	6.9	-116	0.1
51	9.6	6778	6.8	-122	0.1



ESI. Table. S2

		depth (m)	date	DOC (mg/L)	DN (mg/L)
1911	Medard middle 1	0.5	10/4/2016	4.34	1.76
1912	Medard middle 3	10	10/4/2016	3.77	1.95
1913	Medard middle 4	47	10/4/2016	3.26	1.85
1914	Medard middle bottom	59	10/4/2016	14.06	7.58
633	Medard middle 1	0.5	4/19/2017	3.47	1.72
634	Medard middle 2	14	4/19/2017	3.49	1.66
635	Medard middle bottom	59	4/19/2017	13.57	7.35
1309	Medard middle 1	0	7/25/2017	3.66	1.7
1310	Medard middle 3	25	7/25/2017	3.11	1.84
1311	Medard middle bottom	59	7/25/2017	16.48	8.39
1875	Medard middle 1	0.5	10/3/2017	3.58	1.62
1876	Medard middle 2	25	10/3/2017	3.07	1.95
1877	Medard middle bottom	58	10/3/2017	12.33	6.65
288	Medard middle 1	0.5	3/20/2018	3.04	1.72
289	Medard middle 2	20	3/20/2018	3.05	1.67
290	Medard middle bottom	58	3/20/2018	9.08	4.66
985	Medard middle 1	0.5	7/10/2018	3.7	1.54
986	Medard middle 2	20	7/10/2018	3.13	1.62
987	Medard middle bottom	58	7/10/2018	10.1	5.21
		<u>Mixolimnion</u>			
Shimadzu TOC-L (Shimadzu, Japan)		Median		3.5	1.7
		Mean		3.5	1.7
		SE		0.1	0.03
		<u>Monimolimnion</u>			
		Median		13.0	7.0
		Mean		12.6	6.6
		SE		1.1	0.6