

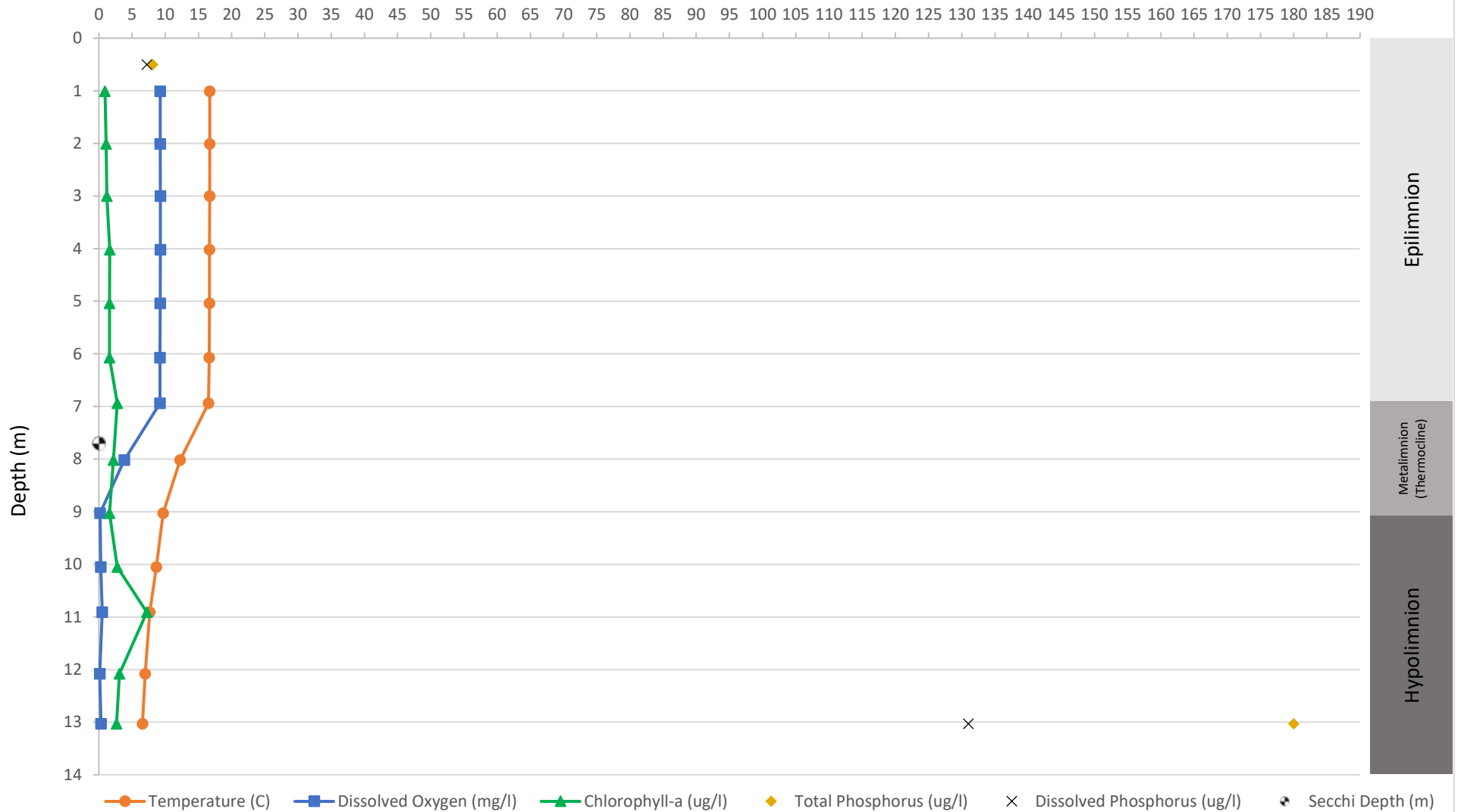
Lake Fairlee Station 1

Cond=Conductivity(uS/cm) DO=Dissolved Oxygen(mg/L) Chl-a=Chlorophyll-a(ug/L) TP=Total Phosphorus(ug P/L) DP=Dissolved Phosphorus (ug P/L) TN=Total Nitrogen(mg/L) Al=Aluminum(ug/L) Ca=Calcium(mg/L) Cl=Chloride(mg/L) Fe=Iron(ug/L) Mg=Magnesium(mg/L) Mn=Manganese(ug/L) K=Potassium(mg/L) Na=Sodium(mg/L) SO4=Sulfate (mg/L) TCH=Total Calculated Hardness(mg CaCO3/L)

Date	Depth(m)	Temp(C)	pH	Cond	DO%	DO	Chl-a	TP*	DP*	TN*	Al	Ca	Cl	Fe*	Mg	Mn*	K	Na	SO4	TCH
10/5/18	0.5							8.1	7.2	0.2	<20	13.5	11.8	<50	1.4	14.5	1.4	6.7	4.0	39.4
10/5/18	1.0	16.7	7.7	118.3	93.6	9.3	0.9													
10/5/18	2.0	16.7	7.7	118.3	93.5	9.2	1.1													
10/5/18	3.0	16.7	7.7	118.1	93.7	9.3	1.2													
10/5/18	4.0	16.7	7.7	118.2	93.6	9.3	1.6													
10/5/18	5.0	16.7	7.7	118.2	93.4	9.2	1.6													
10/5/18	6.1	16.6	7.7	118.3	92.9	9.2	1.6													
10/5/18	6.9	16.5	7.7	118.8	92.8	9.2	2.8													
10/5/18	8.0	12.2	7.3	115.7	35.2	3.8	2.2													
10/5/18	9.0	9.7	7.2	117.5	1.5	0.2	1.6													
10/5/18	10.1	8.7	7.2	119.5	2.6	0.3	2.8													
10/5/18	10.9	7.7	7.1	115.5	1.1	0.5	7.2													
10/5/18	12.1	7.0	7.1	132.0	1.0	0.1	3.1													
10/5/18	13.0	6.6	6.9	174.0	2.6	0.3	2.7	180.0	131.0	1.1	<20	15.4	11.8	3288.6	1.5	3469.9	1.5	6.6	2.2	44.3
8/17/17	1.0	23.4	7.8	111.1	103.7	8.4														
8/17/17	2.0	23.4	7.8	111.0	103.6	8.4														
8/17/17	3.0	23.2	7.8	111.3	102.6	8.4														
8/17/17	4.0	23.2	7.7	111.2	102.2	8.3														
8/17/17	5.1	20.1	7.4	106.8	101.0	8.7														
8/17/17	6.0	15.8	7.1	111.4	84.9	8.0														
8/17/17	7.0	11.9	6.8	117.7	49.7	5.1														
8/17/17	8.0	9.3	6.6	121.4	10.0	1.1														
8/17/17	9.0	8.2	6.5	122.0	4.3	0.5														
8/17/17	10.1	7.7	6.5	119.9	2.6	0.3														
8/17/17	11.0	7.5	6.5	122.0	3.9	0.5														

*Large increase in concentration from surface (0.5 m) to bottom (1 m above sediment) water indicates internal loading from sediments under anoxic conditions.

Lake Fairlee Station 1 Temperature, Dissolved Oxygen, Chlorophyll-a and Phosphorus Vertical Profiles on 10/5/2018



Anoxia in the hypolimnion and large increase in phosphorus concentration from surface (0.5 m) to bottom (1 m above sediment) water indicates internal loading from sediments. Note the chlorophyll-a (algae/cyanobacteria) maximum in the hypolimnion.

Lake Fairlee Station 1 Temperature and Dissolved Oxygen Profiles on 8/17/2017

