

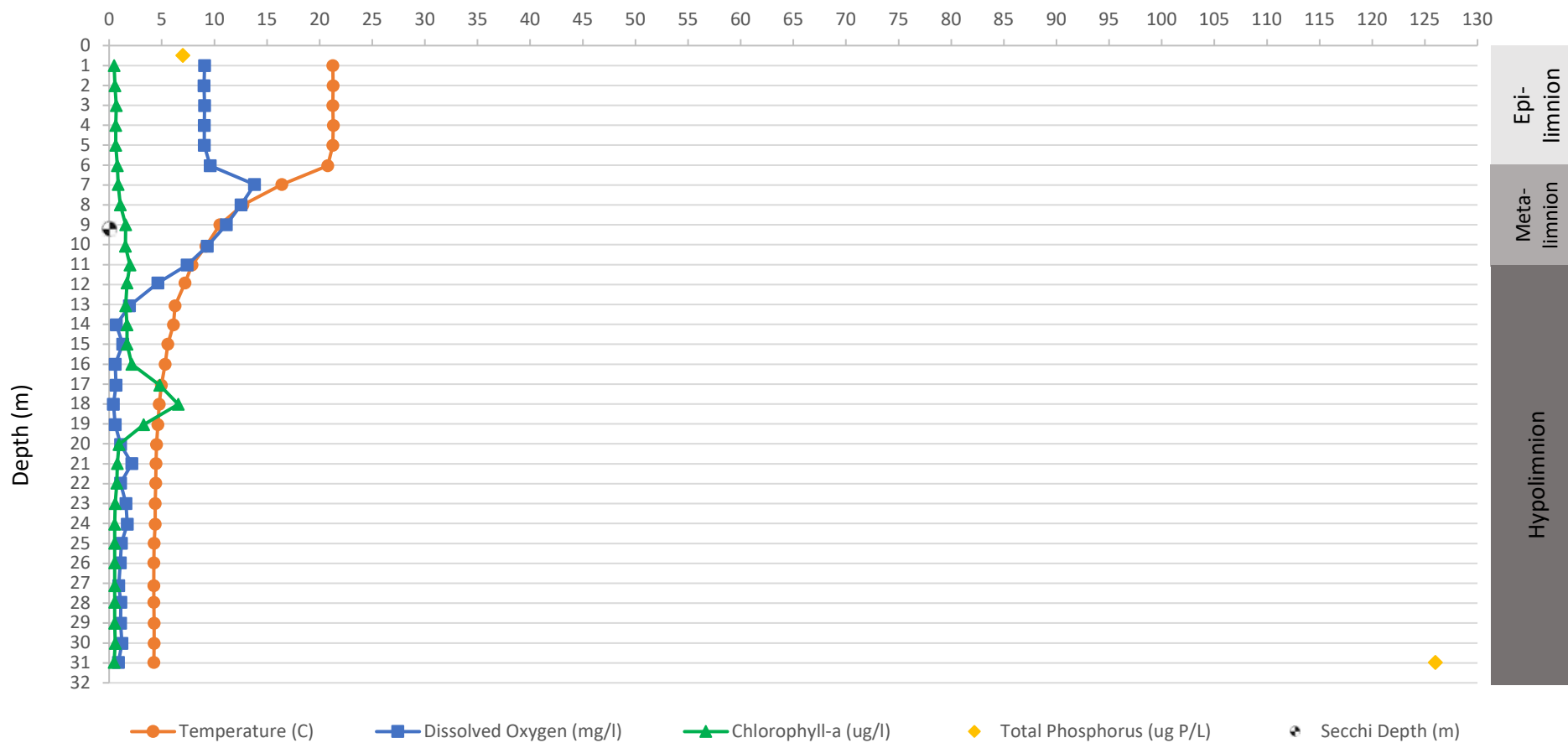
Mirror Lake Station 1

Cond=Conductivity(uS/cm) DO=Dissolved Oxygen(mg/L) Chl-a=Chlorophyll-a(ug/L) TP=Total 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) TCH=Total Calculated Hardness(mg CaCO3/L)

Date	Depth(m)	Temp(C)	pH	Cond	DO%	DO	Chl-a	TP*	TN*	Al	Ca	Cl	Fe*	Mg	Mn*	K	Na	TCH
9/20/18	0.5							7.0	0.1	<20	23.5	<2	<50	2.1	8.9	0.3	0.9	67.1
9/20/18	1.0	21.3	8.0	142.3	101.9	9.1	0.5											
9/20/18	2.0	21.3	8.0	141.9	101.5	9.0	0.6											
9/20/18	3.0	21.3	8.0	142.1	102.0	9.1	0.7											
9/20/18	4.0	21.3	8.0	141.8	101.8	9.1	0.6											
9/20/18	5.0	21.3	8.0	142.6	101.7	9.0	0.6											
9/20/18	6.0	20.8	8.0	142.4	106.8	9.6	0.8											
9/20/18	7.0	16.4	8.1	151.2	141.0	13.8	0.9											
9/20/18	8.0	12.7	7.9	155.2	118.0	12.5	1.1											
9/20/18	9.0	10.5	7.8	156.7	99.5	11.1	1.6											
9/20/18	10.1	9.2	7.7	158.5	80.8	9.3	1.5											
9/20/18	11.0	7.9	7.6	161.3	62.4	7.4	2.0											
9/20/18	11.9	7.2	7.5	162.2	38.3	4.6	1.7											
9/20/18	13.1	6.3	7.4	164.5	15.6	1.9	1.6											
9/20/18	14.0	6.1	7.4	166.2	10.7	0.7	1.7											
9/20/18	15.0	5.6	7.3	166.2	10.2	1.3	1.7											
9/20/18	16.0	5.3	7.3	164.5	4.6	0.6	2.2											
9/20/18	17.1	5.0	7.3	165.9	5.1	0.7	4.8											
9/20/18	18.0	4.8	7.3	168.6	3.2	0.4	6.6											
9/20/18	19.0	4.6	7.2	172.5	4.6	0.6	3.3											
9/20/18	20.0	4.5	7.2	175.8	8.4	1.1	0.9											
9/20/18	21.0	4.5	7.2	178.8	16.6	2.2	0.8											
9/20/18	22.0	4.4	7.2	180.3	8.4	1.1	0.7											
9/20/18	23.0	4.4	7.2	183.2	12.2	1.6	0.6											
9/20/18	24.0	4.4	7.2	185.5	13.2	1.7	0.5											
9/20/18	25.0	4.3	7.1	187.3	8.9	1.2	0.5											
9/20/18	26.0	4.3	7.1	188.1	8.1	1.1	0.5											
9/20/18	27.1	4.2	7.1	189.6	7.0	0.9	0.5											
9/20/18	28.0	4.3	7.1	190.1	8.6	1.1	0.5											
9/20/18	29.0	4.3	7.1	191.7	8.4	1.1	0.5											
9/20/18	30.0	4.3	7.1	192.9	9.3	1.2	0.6											
9/20/18	31.0	4.3	7.0	250.9	6.7	0.9	0.5	126.0	1.0	<20	27.6	<2	2144.3	2.2	3269.8	0.4	1.0	78.2

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

Mirror Lake Station 1 Temperature, Dissolved Oxygen, Chlorophyll-a and Total Phosphorus Vertical Profiles on 9/20/2018



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 metalimnion.