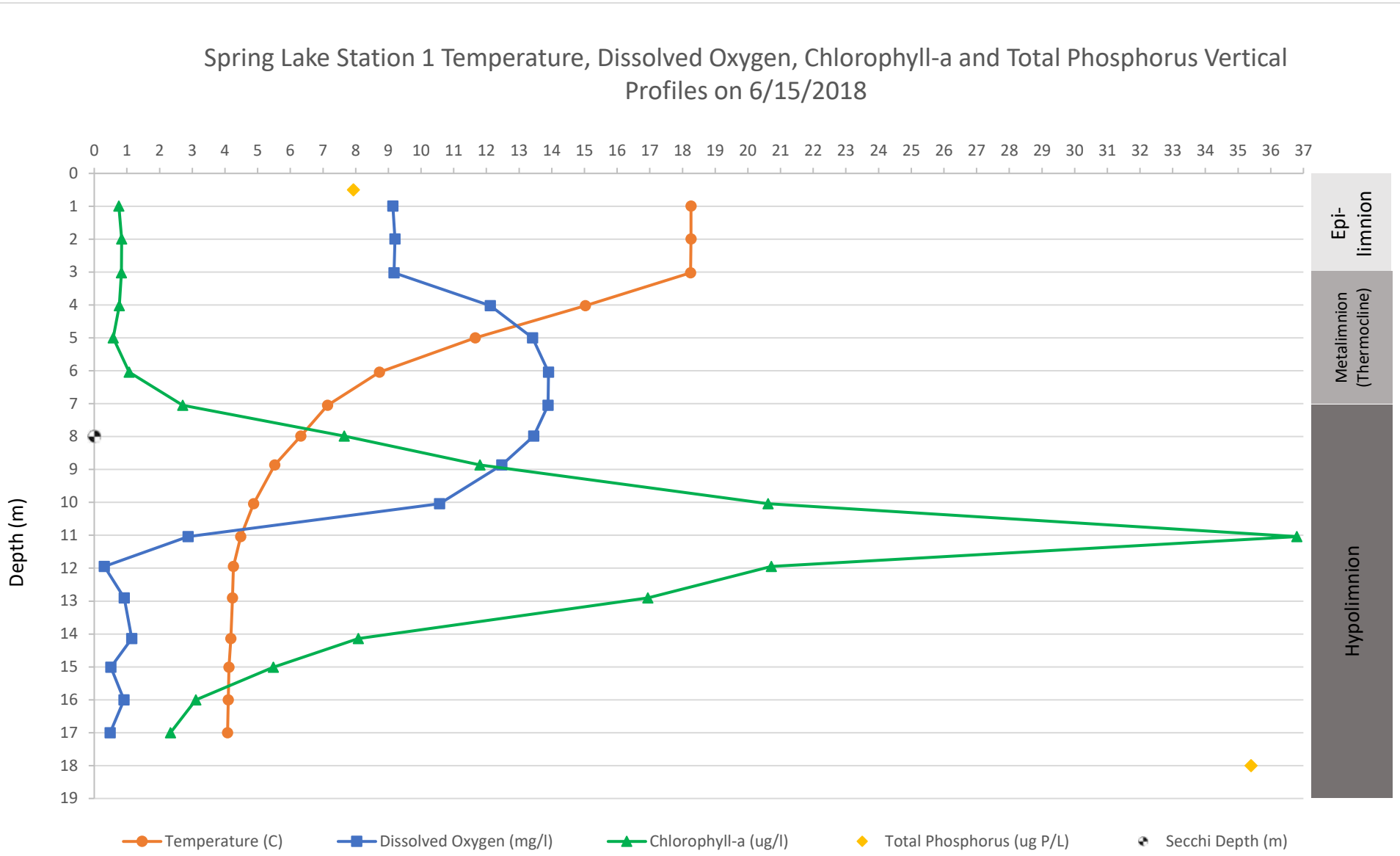
Spring Lake Station 1

Cond=Conductivity(uS/cm) DO=Dissolved Oxygen(mg/L) Chl-a=Chlorophyll-a(ug/L) TP=Total Phosphorous(ug P/L) TN=Total Nitrogen(mg/L) Al=Aluminum(ug/L) Ca=Calcium(mg/L) Cl=Chloride(mg/L) DIC=Dissolved Inorganic Carbon(mg/L) DOC=Dissolved Organic Carbon(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	DIC	DOC	Fe	Mg	Mn*	K	Na	TCH
6/15/18	0.5							7.9	0.2	<20	8.3	<2	7.2	3.3	<50	2.5	<5	0.4	0.6	31.2
6/15/18	1.0	18.3	7.8	65.5	99.1	9.1	0.8													
6/15/18	2.0	18.3	7.7	65.5	99.7	9.2	0.8													
6/15/18	3.0	18.3	7.7	65.8	99.4	9.2	0.8													
6/15/18	4.0	15.0	7.8	67.6	122.8	12.1	0.8													
6/15/18	5.0	11.7	7.9	69.8	126.0	13.4	0.6													
6/15/18	6.0	8.7	8.0	72.3	122.0	13.9	1.1													
6/15/18	7.1	7.1	8.1	72.4	117.2	13.9	2.7													
6/15/18	8.0	6.3	8.0	72.6	111.2	13.5	7.7													
6/15/18	8.9	5.5	7.8	72.8	101.0	12.5	11.8													
6/15/18	10.0	4.9	7.7	73.2	84.2	10.6	20.6													
6/15/18	11.0	4.5	7.4	74.4	22.6	2.9	36.8													
6/15/18	12.0	4.3	7.3	76.0	2.4	0.3	20.7													
6/15/18	12.9	4.2	7.2	76.1	7.2	0.9	16.9													
6/15/18	14.1	4.2	7.2	78.4	9.0	1.2	8.1													
6/15/18	15.0	4.1	7.1	80.6	4.0	0.5	5.5													
6/15/18	16.0	4.1	7.1	84.2	7.1	0.9	3.1													
6/15/18	17.0	4.1	7.1	84.4	3.8	0.5	2.3													
6/15/18	18.0	4.1	7.0	86.1	3.9	0.5	2.1	35.4	0.3	<20	10.0	<2	9.7	3.5	61.2	3.0	210.8	0.5	0.7	37.5

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



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.