

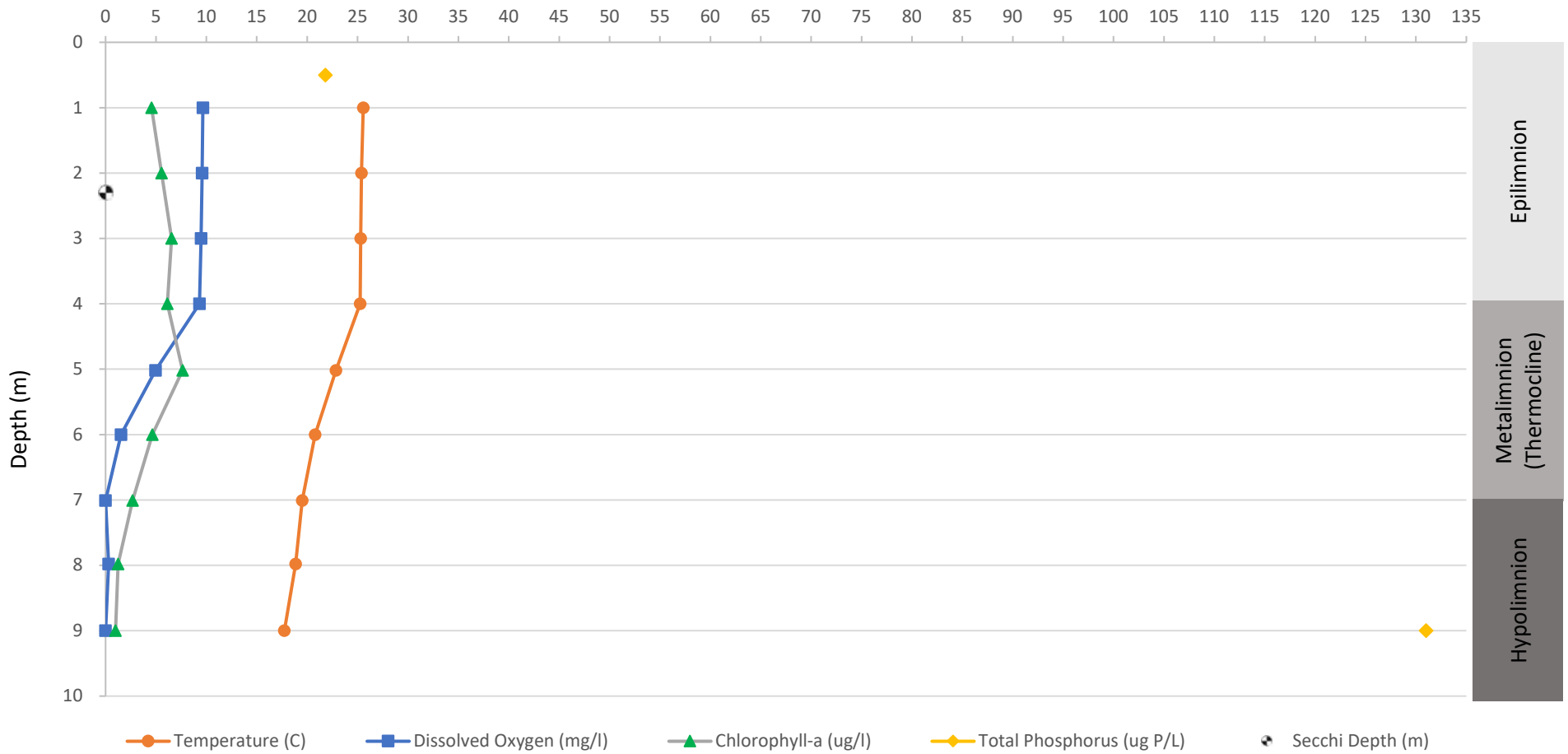
### Lake Carmi Station 1

Cond=Conductivity (uS/cm) DO=Dissolved Oxygen (mg/L) Chl-a=Chlorophyll-a (ug/L) TP=Total Phosphorus (ug/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	Chl	DIC	DOC	Fe*	Mg	Mn*	K	Na	TCH
7/13/18	0.5							21.8	0.4	<20	18.1	7.4	8.5	4.4	<50	2.4	30.8	1.9	5.6	55.1
7/13/18	1.0	25.6	8.6	121.9	115.4	9.7	4.6													
7/13/18	2.0	25.4	8.6	122.2	114.2	9.6	5.6													
7/13/18	3.0	25.3	8.6	122.0	112.8	9.5	6.6													
7/13/18	4.0	25.3	8.6	122.1	110.9	9.3	6.1													
7/13/18	5.0	22.9	7.7	122.1	56.3	5.0	7.6													
7/13/18	6.0	20.8	7.3	123.5	16.7	1.5	4.7													
7/13/18	7.0	19.5	7.3	128.7	0.0	0.0	2.7													
7/13/18	8.0	18.9	7.2	136.7	3.2	0.3	1.3													
7/13/18	9.0	17.7	7.1	142.8	0.0	0.0	1.0	131.0	0.5	<20	17.3	7.5	12.3	4.4	857.1	2.2	1307.1	1.8	4.9	52.5
8/8/17	1.0	23.2	8.4	120.3	94.6	7.7														
8/8/17	2.0	23.0	8.3	120.2	93.2	7.6														
8/8/17	3.0	22.9	8.3	120.3	89.9	7.3														
8/8/17	4.0	22.9	8.2	120.7	87.6	7.1														
8/8/17	5.0	22.8	7.7	121.3	78.7	6.4														
8/8/17	6.0	22.6	7.3	121.5	65.5	5.4														
8/8/17	7.0	21.4	6.8	128.3	5.0	0.4														
8/8/17	8.0	20.3	6.8	151.3	3.2	0.3														
8/8/17	9.0	19.7	6.8	160.3	2.1	0.2														

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

## Lake Carmi Station 1 Temperature, Dissolved Oxygen, Chlorophyll-a and Total Phosphorus Vertical Profiles on 7/13/2018



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.

Lake Carmi Station 1 Temperature and Dissolved Oxygen Vertical Profiles on 8/8/2017

