CU Winter Limnology
Hydrolab Lake Profile Data

Lake Name: Gold Lake	County: Boulder	Site #:
Monitor:	Group Name:	Date:
Instrument #:		

Basic Parameters

Basic Parameters	
Air Temperature (°C)	0.3
Secchi Disk Depth (cm)	lo# 2'3 regained 2½ full
Water Color dull green	

Ice Thickness (cm)	16 in.		
Snow Depth (cm)	0		
	Digital	Sonde	Correction*
Water surface temperature at 10cm depth			
	*Correction=DigitalT−SondeT @0.1m (Enter correction factor on next page)		

Basin description:
Lake elevation
Lake size
Basin size
Basin geology
Basin vegetation

Physical Characteristics / **Current Conditions**

Cloud Cover
0 = cloudless 3 = fog/haze 6 = rain/
1 = partly Cloudy 4 = drizzle thunderstorm
2 = overcast 5 = intermittent rain

⊡ 0

Wind Speed
0 = calm 3 = strong
1 = slight breeze 4 = gusty
2 = breezy

⊡ 4

Wind Direction
0 = no wind 3 = east 6 = northwest
1 = north 4 = west 7 = southeast
2 = south 5 = northeast 8 = southwest

⊡ NW

Waves
0 = calm 3 = moderate waves
1 = ripples 4 = white caps
2 = small waves

frozen

Aquatic Macrophytes
0 = none 3 = substantial
1 = minimal 4 = abundant
2 = moderate

⊡ 0

Previous Weeks Weather: Est. precip. during past week.

Precipitation ranges	Days before sampling Rating
0 = none	6
1 = (0 - 0.1 in.)	5
2 = (0.11 - 0.5 in.)	4
3 = (0.51 - 1.0 in.)	3
4 = (1.1 - 2.0 in.)	2
5 = (> 2.0 in.)	1
	Today 0

Hydrolab Profile

Corrected Depth(m)	Barometric Pressure [BP] (mg Hg)	DEPTH (m)	TEMPERATURE(°C) Correction factor = ___ T_sonde	T_corrected	pH	DISSOLVED O₂ [LDO] (mg/l)	(%)	SPECIFIC CONDUCTIVITY [SP] (µS/cm)	TDS (mg/l)	FIELD OBSERVED COLOR/BIOTA (at biotic sample depths)
0.1	500.4	0.1	0.84	0.9	7.57	12.98	124	27.4		
1.7	500.8	0.5	4.15		7.85	12.4	129.3	26.3		
2.3	501	1.2	4.16		7.95	12.44	129.6	26.3		
2.8	500.2	1.7	4.16		7.97	12.40	129.3	26.3		
3.3	501.2	2.2	4.22		7.87	11.87	124.3	26.3		
3.8	500.6	2.7	4.33		7.78	10.08	106.4	27		
4.3	501.6	3.2	4.4		7.56	6.77	71.3	27.9		
4.8	501.7	3.7	4.44		7.38	3.25	35.1	29.2		
5.3	501.6	4.2	4.46		7.26	2.2	24	29.6		
5.8	501.9	4.7	4.47		7.07	0.6	6.5	29.9		
6.2	501.5	5.2	4.54		6.9	0.41	4.6	33.3		
6.5	501.2	5.4	4.74		6.45	0.01	0.1	86.8		

Isothermal stable

top half hyper-ox
bottom half hypo-ox
bottom-anoxic