

Little Green Lake Water Quality Monitoring Data Sheet

Station Info	Station Name: Inlet A	Date: 7/23/20	Start Time: 1:08
	SWIMS Station ID: 10060853	WBIC: 5027630	End Time: 1:31
	GPS Coordinates in the Field: 43.739914, -88.973824		
	Team Member Name(s): D. Schultz		

Weather & Site Observations	Staff Gage Level	Weather (circle or highlight one): ① = Sunny 2 = Rain 3 = Partly Cloudy 4 = Cloudy 5 = Snow 6 = Thunderstorm	Weather over the past two days: clear / sunny
	Staff Gage ID:		
	Gage Level (ft.):		
	Water Depth at Site (ft.): 0.22 ft	Water Column Appearance (circle or highlight one): ① = Clear 2 = Murky 3 = Other:	Water Color (circle or highlight one): *use the white portion of the secchi disk to determine color ① = Blue 2 = Green 3 = Brown 4 = Red 5 = Yellow
	Device used: Stabira rod		
Algae Perception - Represents the amount of observed blue-green algae in the water at your sample location Circle or highlight one: 1 = Beautiful, could not be nicer 2 = Very minor aesthetic problems; excellent for swimming and boating enjoyment ③ = Swimming and aesthetic enjoyment of the lake slightly impaired because of high algae levels 4 = Desire to swim and enjoyment of the lake is substantially reduced because of algae; would not swim, but boating is OK 5 = Poor aesthetics due to algae prevents swimming and boating Other Observations: lovely elodea population on N. shore			

Transparency	Secchi Depth *Deep Hole monitoring only Record as a decimal. Round to the nearest 1/4 ft.	Trial #1 (ft.)	Trial #2 (ft.)	Average (ft.)	Notes:
	Transparency Tube *Inlet and Outlet monitoring only	Trial #1 (cm) > 120	Trial #2 (cm) > 120	Average (cm) 120	Notes: v. clear, fil. algae

Water Samples	Parameter:	Collected?	Preserved?	On Ice?	Labeled?
	TP	(Y) N	(Y) N	(Y) N	(Y) N
	TN	(Y) N	(Y) N	(Y) N	(Y) N
	Orthophosphate	(Y) N	Y (N)	(Y) N	(Y) N
	NO2 + NO3 as Nitrogen	(Y) N	(Y) N	(Y) N	(Y) N
	Chlorophyll a	Y N	Y N	Y N	Y N
For Deep Hole site only: Has 0-6 foot integrated sample AND < 1 meter from bottom sample been collected? Y N					
Has lab "Test Request Form" been completed and photograph taken? (circle one) Ye (Y) N					
Will samples be shipped or dropped off? (Circle one) Shipped (Dropped off) Tim S					

Additional Metrics	YSI Probe Parameters: HANNA	
	Temperature: 15.48 °C	Turbidity: > 120 sec T tube
	Dissolved Oxygen (DO): 101.1 % 9.95 ppm	pH: 7.37

Little Green Lake - Stream Flow Field Data Sheet

Station Info	Station Name: Inlet A	Date: 7/23/26	Start Time: 1:08
	SWIMS Station ID: 10060853	WBIC: 5027630	End Time: 1:51
	Team Member Name(s): R. Schultz		

Stream Width & Depth	Waterway Width (ft.): 7.0		# of Intervals: 7		Other Observations: low / v. slow flow
	Length Assessed (ft.): 20.0		Width of Intervals: 1.0		
	Interval	Water Depth (ft.)	Interval	Water Depth (ft.)	Total Sum of Depths:
	1	0	11		Average Depth (Total Sum of Depths / # of Intervals): 17 =
	2	0.18	12		
	3	0.21	13		Cross-Sectional Area (Average Depth x Stream Width): 1 x 7 =
	4	0.27	14		
	5	0.32	15		* low water depth, float trial hung up many times
	6	0.20	16		
	7	0	17		
8		18			
9		19			
10		20			

Velocity Measurement	Float Trials	Time (Seconds)
	1	172
	2	158
	3	177
	4	149
	SUM	

Average Float Time (Sum of Trials / # of Trials): 14 =

Average Surface Velocity (Length Assessed / Average Float Time): 20 / =
--

* mats of filamentous algal

Calculating Stream Flow	Correction Values
	For rough, loose, coarse, weedy bottom: 0.8
	For smooth bottom: 0.9

* flow @ culvert outlet, stagnant downstream when mixed w/ lake

Corrected Surface Velocity (Correction Value x Average Surface Velocity): x =
--

Final Corrected Stream Flow (Cross-Sectional Area x Corrected Surface Velocity x 0.76): x x 0.76 =

*Measuring stream flow with the surface float test method overestimates flow by 24%. This is why we must multiply our stream flow by 0.76 for a final corrected stream flow discharge.