Little Green Lake Water Quality Monitoring Data Sheet

Station Info

Station Name: Outlet	**Date:** 8/26/26	**Start Time:** 12:56
SWIMS Station ID: 10060855	**WBIC:** 162400	**End Time:** 1:58pm
GPS Coordinates in the Field: 43.734527, -88.972258		
Team Member Name(s): Gabrielle Jonas		

Weather & Site Observations

Staff Gage Level Staff Gage ID: Gage Level (ft.):	**Weather (circle or highlight one):** 1 = Sunny 2= Rain (3 = Partly Cloudy) 4 = Cloudy 5= Snow 6 = Thunderstorm	**Weather over the past two days:** Sunny
Water Depth at Site (ft.): *Device used:*	**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

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 aestetic 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:

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)**	**Trial #2 (cm)**	**Average (cm)**	**Notes:**
	49.8	39.8		

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)

Additional Metrics

YSI Probe Parameters:

Temperature:	**Turbidity:**
24.22	
Dissolved Oxygen (DO): % 87.5 / PPM 7.19	**pH:** 9.23

Little Green Lake - Stream Flow Field Data Sheet

Station Info

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Team Member Name(s): Gabrielle Jonas		

Stream Width & Depth

Waterway Width (ft.): 13.7

Length Assessed (ft.) 20 ft

# of Intervals: 14

Width of Intervals: 1 Ft

Other Observations: Very slow flow in some areas gets caught stagnant

Interval	Water Depth (ft.)	Interval	Water Depth (ft.)
1	0.0	11	0.55
2	0.25	12	0.5
3	0.8	13	0.45
4	0.85	14	0.25
5	0.9	15	
6	0.9	16	
7	0.9	17	
8	0.85	18	
9	0.7	19	
10	0.55	20	

Total Sum of Depths: 8.4

Average Depth (Total Sum of Depths/ # of Intervals): 0.6

Cross-Sectional Area (Average Depth x Stream Width): 8.22

Stream Depth Measurement Reminders:

- Measure water depth at equal intervals across the stream.
- The first depth is always zero to represent the stream edges.
- Only measure in decimal feet (not feet and inches)

Velocity Measurement

Float Trials	Time (Seconds)
1	371.77
2	224.10
3	414.92
4	169.60
SUM	

Average Float Time (Sum of Trials/ # of Trials): 295.0725 Sec

Average Surface Velocity (Length Assessed/ Average Float Time): 0.06778

Calculating Stream Flow

Correction Values

For rough, loose, coarse, weedy bottom: 0.8

For smooth bottom: 0.9

Corrected Surface Velocity (Correction Value x Average Surface Velocity): 0.05422

Final Corrected Stream Flow (Cross-Secitonal Area x Corrected Surface Velocity x 0.76): 0.339

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.*