

Lake Greenwood Continuous Monitoring Study Periodic Report

August 22, 2018 - October 31, 2018

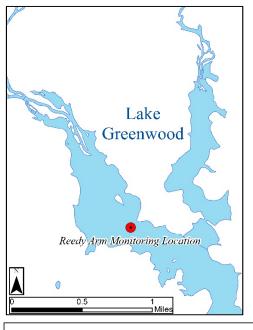
This study funded through a joint effort consisting of Greenwood County, Laurens County Water and Sewer Commission (LCWSC), City of Greenville, and Renewable Water Resources (ReWa).



Continuous Monitoring Report Lake Greenwood at Reedy Arm



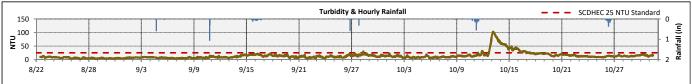
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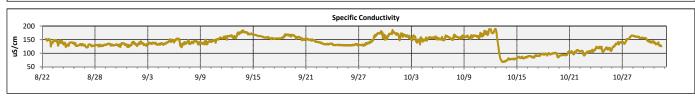


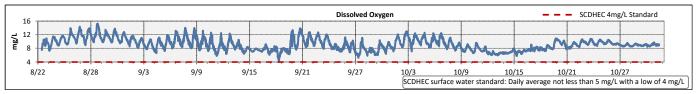
MONITORING LOCATION CHARACTERISTICS				
Station Location Name	Reedy Arm			
Latitude	34.347141 °N			
Longitude	82.109702 °W			
Appoximate Drainage Area	260 square miles			

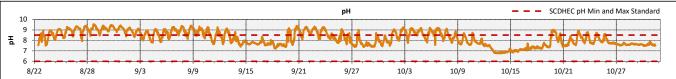
RAINFALL CHARACTERISTICS Data collected at rain gauge located at Ekom Beach Road crossing of Reedy River				
Number of Storms Over 0.1 in"	8			
Max Storm Rainfall	2.04 in			
Total Rainfall for Period (Length of deployment: 10 weeks)	8.33 in			

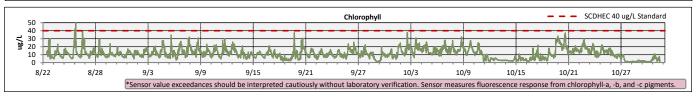
CONTINUOUS WATER	SUMMARY STATISTICS						
QUALITY PARAMETERS:	MIN	MAX	MEDIAN	MEAN	ST. DEV.		
Turbidity (NTU):	3	103	12	14	12		
Sp. Conductivity (uS/cm):	68	190	140	139	25		
Dissolved Oxygen (mg/L):	4.4	15.3	9.1	9.2	1.7		
pH:	6.8	9.5	8.2	8.2	0.7		
Chlorophyll* (ug/L)	1	50	11	11	6		
Temperature (°F):	56	91	81	79	9		

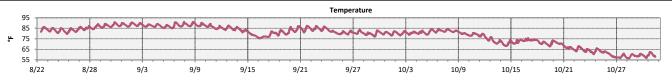














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Explanation of Statistics:				
MIN	The minimum value recorded by the datasonde during the reporting period.			
MAX	The maximum value recorded by the datasonde during the reporting period.			
MEDIAN	The median value represents the 50th percentile of the distribution of all values recorded during the reporting period. Half of the recorded values during this period fell above the median value and half fell below this value.			
MEAN	The average of all the 15-minute values recorded by the datasonde during this reporting period.			
ST. DEV.	The standard deviation is a measure of the variation within a dataset. A large standard deviation indicates significant variability in the dataset and a small standard deviation represents low variability.			

Discrete Sample Results Collected to Date Analyzed by Pace Analytical and ETT Environmental Laboratories								
Sample Date	TSS	TN	TKN	NO3+NO2	TP	Ortho-P	Chl-a	Chl-total
Sample Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L
9/11/2018 13:30		1.10			0.110		30.8	
9/26/2018 9:10	9.6	0.88	0.51	0.37	0.091	ND	24.5	30.3

Samples collected by Greenwood Commissioners of Public Works (CPW) are analyzed for TN, TP, and Chl-a only.

These samples are collected in order to provide information on parameters which cannot be reliably measured in-situ. These sample results may be used in the future to develop statistical relationships with continuously monitored parameters in an effort to estimate continuous concentrations of these parameters. A sufficient sample size for regression analysis is typically 20 samples or more collected across a range of weather conditions.

Definitions			
Chl-a	Chlorophyll-a		
Chl-total	Total Chlorophyll		
ND	Non Detected at the Reporting Limit		
NO3+NO2	Nitrate + Nitrite as Nitrogen		
Ortho-P	Ortho-Phosphate		
TKN	Total Kjeldahl Nitrogen		
TN	Total Nitrogen		
TP	Total Phosphorus		
TSS	Total Suspended Solids		