

Outfall Location: LSM 002

Sample Date: 9/21/2021

Parameter	DeSoto's Results	Qualifier	Mosaic's Results	Qualifier	Mosaic Permit Limit	Units	Notes
Arsenic	4		4.17		50	ug/L	Daily Maximum Note: DeSoto's results were converted from mg/L to ug/L.
Total Nitrogen	1.13		1.07		3	mg/L	Daily Maximum
Total Phosphorus (as P)	0.563		0.507		3,5	mg/L	Limits for 30-day Average and Daily Maximum
Chlorophyll a	15.4		16.2		Report	mg/m3	
Specific Conductivity	434.8		420		1275	umhos/cm	
Flouride	1		1.18		10	mg/L	
pH	7.55		7.79		6.0-8.5	S.U	
Sulfate	75.1		75		Report	mg/L	No Limit in NPDES Permit. Note: Sulfate in drinking water currently has a secondary maximum contaminant level (SMCL) of 250 milligrams per liter (mg/L), based on aesthetic effects (i.e., taste and odor).
Total Suspended Solids	6.1		6.4		30,60	mg/L	Limits for 30-day Average and Daily Maximum
Fixed Suspended Solids			3.80		12,25	mg/L	Limits for 30-day Average and Daily Maximum
Turbidity	11.6		6.18		29	NTU	Limit is above background
Oil and Grease	1.22	U	3.67	I	5	mg/L	No Limit in LSM NPDES Permit (this limit comes from Wingate Permit)
Gross Alpha	12 +/- 3.58		6.4+/-2.1		15	pCi/L	If GA exceeds 15 pCi/L, the sample shall be analyzed for Combined Radium 226&228
Dissolved Oxygen	48.6		61.4		38	% Saturation	

H - Holding times for preparation or analysis exceeded
 ND - Not detected at the reporting limit
 U - Not detected at or above the adjusted reporting limit
 I - The value is between the MDL and the PQL

MDL - Method Detection Limit
 PQL - Practical Quantification Limit