

Outfall Location: FTG 005

Sample Date: 9/16/2021

Parameter	DeSoto's results	Qualifier	Mosaic's Results	Qualifier	Mosaic Permit Limit	Units	Notes
Arsenic	1.7		1.82	I	50	ug/L	Daily Maximum Note: DeSoto's results were converted from mg/L to ug/L.
Total Nitrogen	1.14		0.912		3	mg/L	Daily Maximum
Total Phosphorus (as P)	0.473		0.685		3,5	mg/L	Limits for 30-day Average and Daily Maximum
Chlorophyll a	5.34		6.14		Report	mg/m3	
Specific Conductivity	429.3		413		1275	umhos/cm	
Flouride	1.2		1.18		10	mg/L	
pH	7.29		7.25		6.0-8.5	S.U	DeSoto results not from field sample. pH reported with "H" qualifier for holding time exceedance
Sulfate	47.8		43.8		Report	mg/L	No Limit in FTG 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	1.6		1.8		30,60	mg/L	Limits for 30-day Average and Daily Maximum
Fixed Suspended Solids			1.00		12,25	mg/L	Limits for 30-day Average and Daily Maximum
Turbidity	1.19		1.61		29	NTU	Limit is above background
Oil and Grease	1.16	U	3.08	I	5	mg/L	No Limit in FTG NPDES Permit (this limit comes from Wingate Permit)
Gross Alpha	12	U	2.7		15	pCi/L	If GA exceeds 15 pCi/L, the sample shall be analyzed for Combined Radium 226&228
Dissolved Oxygen	47.57		43.1		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