

Parameter	Unit	FYI3 8/08/2011	FYI3 8/06/2012	FYI3 6/9/2014
Algal Growth Potential (AGP)	mg/kg dry wt/L	136	283	180
Chlorophyll-a (corrected)	µg/L	4.4	6.1	0.55 U
Fecal Coliforms	#/100 mL	6	21	2.0 U
Orthophosphate	mg/L	6.2	12	15
Total Phosphorus	mg/L	7.1	13	17
Total Ammonia	mg/L	0.086	0.068	0.064
Un-ionized Ammonia	mg/L	< 0.02	< 0.02	-
Nitrate and Nitrite	mg/L	6.5	13	17
Total Kjeldahl Nitrogen (TKN)	mg/L	1.4	1.7	1.8
Organic Nitrogen	mg/L	1.314	1.632	
Total Nitrogen	mg/L	7.9	14.7	18.8
Dissolved Oxygen	mg/L	5.2	8.5	7.08
pH	S.U.	7.3	7.2	7.25
Conductivity	µmhos/cm	1059	848	1114
Temperature	Deg C	30.4	29.7	29.19
Salinity	ppt		< 0.38	0.51
Oil and Grease	mg/L	0.7 U	0.81 U	0.77 U
Hardness (mg CaCO3)	mg/L	244.95	292.32	

- b) Biological Integrity Testing. Biological monitoring was conducted at four stations in the middle Suwannee River to monitor the effects of the Pilgrim's Pride Live Oak Processing discharges on the health of the downstream benthic community. Approximately, 1.50 MGD Monthly Average Daily Flow of treated wastewater is discharged into the Suwannee River through an outfall pipe (D-001) located medially between two biotic integrity sampling stations. Biotic integrity monitoring stations exist on each bank of the River at both upstream and downstream locations from the outfall, as noted in the aerial below.

