Silt calculations for effluent of Intercostal Waterway into St. Joe Bay at 20 ft. River Reading

Ave width of ICW Canal 270 ft of which 20 ft on either side is gradient conservative width 230 ft. Ave depth of canal is 10 ft Average Depth is actually greater at river reading 20 ft I ft width of column 230 x10x1 = 2300 cu ft Ave speed of current right now on Jan 1st 2019 at high tide is 2.5 mph according to my GPS 5280 ft x 2.5 = 13200 ft per hour 1 hr = 3600 sec 13200/3600 = 3.66 Current speed is 3.66 ft/sec So every second (2300cu ft x3.66 ft/sec) deposits 8418 cu ft of water Every hour deposits 8418 cu ft x 3600 sec = 30,304,800.00 cu ft of water into the Bays There are 7.48 gallons of water in one cubic foot of water.

Each hour deposits 226,679,904 gallons of freshwater into St. Joe Bay

Each 24 hour period is depositing FIVE BILLION FOUR HUNDRED AND FORTY MILLION THREE HUNDRED AND SEVENTEEN THOUSAND GALLONS OF FRESHWATER into St. Joe Bay at a 20 ft river reading.

This water carries with it MILLIONS of TONS of silt and sediment that Do NOT belong in St. Joe Bay, but are much needed in Apalachicola Bay.