



**ATLANTA WASTEWATER SYSTEM IMPROVEMENT PROGRAM
PROGRAM MANAGEMENT TEAM
MEMORANDUM**

To: File **Date:** 7/15/02
From: Joe Basista **Reference:** AWSIP Contract
Subject: Pre-design Process for Authorized CSO Plan -- Refinement Options Identified to Date

This memo identifies and summarizes several refinement options identified to date.

- **Refinement Option No. 1 -- 27% Separation (Multiple Full Basins)**
 - ✓ Separate Greensferry and McDaniel basins; and Stockade sub-basin
 - ✓ Reduces length/volume of East and West tunnels (Greensferry and McDaniel legs)
 - ✓ Eliminates 2 existing CSO facilities and 1 regulator
 - ✓ Estimated capital cost likely less than authorized plan
 - ✓ Can be implemented by Nov 2007
- **Refinement Option No. 2 – 40% Separation (Multiple Full Basins)**
 - ✓ Fully separate the East Area – McDaniel and Custer basins
 - ✓ Eliminates East tunnel system
 - ✓ Eliminates East combined sewage treatment facility
 - ✓ Eliminates 2 existing CSO facilities and 2 regulators
 - ✓ Estimated capital cost likely about same as authorized plan
 - ✓ Can likely be implemented by Nov 2007
- **Refinement Option No. 3 – 50% Separation (Multiple Full Basins)**
 - ✓ Fully separate the East Area (McDaniel and Custer basins); and separate Greensferry basin
 - ✓ Eliminates East tunnel system and reduces length/volume of West tunnel (Greensferry leg)
 - ✓ Eliminates East combined sewage treatment facility
 - ✓ Eliminates 3 existing CSO facilities and 2 regulators
 - ✓ Estimated capital cost likely about same as authorized plan
 - ✓ Can likely be implemented by Nov 2007
- **Refinement Option No. 4 – 80% Separation (Multiple Full and Partial Basins)**
 - ✓ Separate all but the downtown urban core within combined sewer area -- fully separate the East Area (McDaniel and Custer basins); fully separate Greensferry basin; partially separate North Avenue, Tanyard and Clear Creek basins (except urban core).
 - ✓ Eliminates East tunnel system; reduces length of West tunnel (eliminate Greensferry leg); significantly reduces volume of West tunnel (about 40% of authorized plan)
 - ✓ Eliminates East and possibly West combined sewage treatment facilities (may be able to route smaller west tunnel to existing R.M. Clayton WRC for advanced treatment of combined sewage from urban core) – To Be Determined
 - ✓ Eliminates 3 existing CSO facilities and 2 regulators
 - ✓ Estimated Schedule – To Be Determined (Uncertain if can implement by Nov 2007)
 - ✓ Estimated Capital Cost – To Be Determined (but likely about same cost as authorized plan)