

How Much is 50 Million Gallons?

- Over 1,000 Miles of 55-gal Drums Lying End-to-End



- Enough Water to Fill the Largest Oil Tankers that Can Go Through the Suez Canal



- The Combined Annual Wine Production of New York and Washington

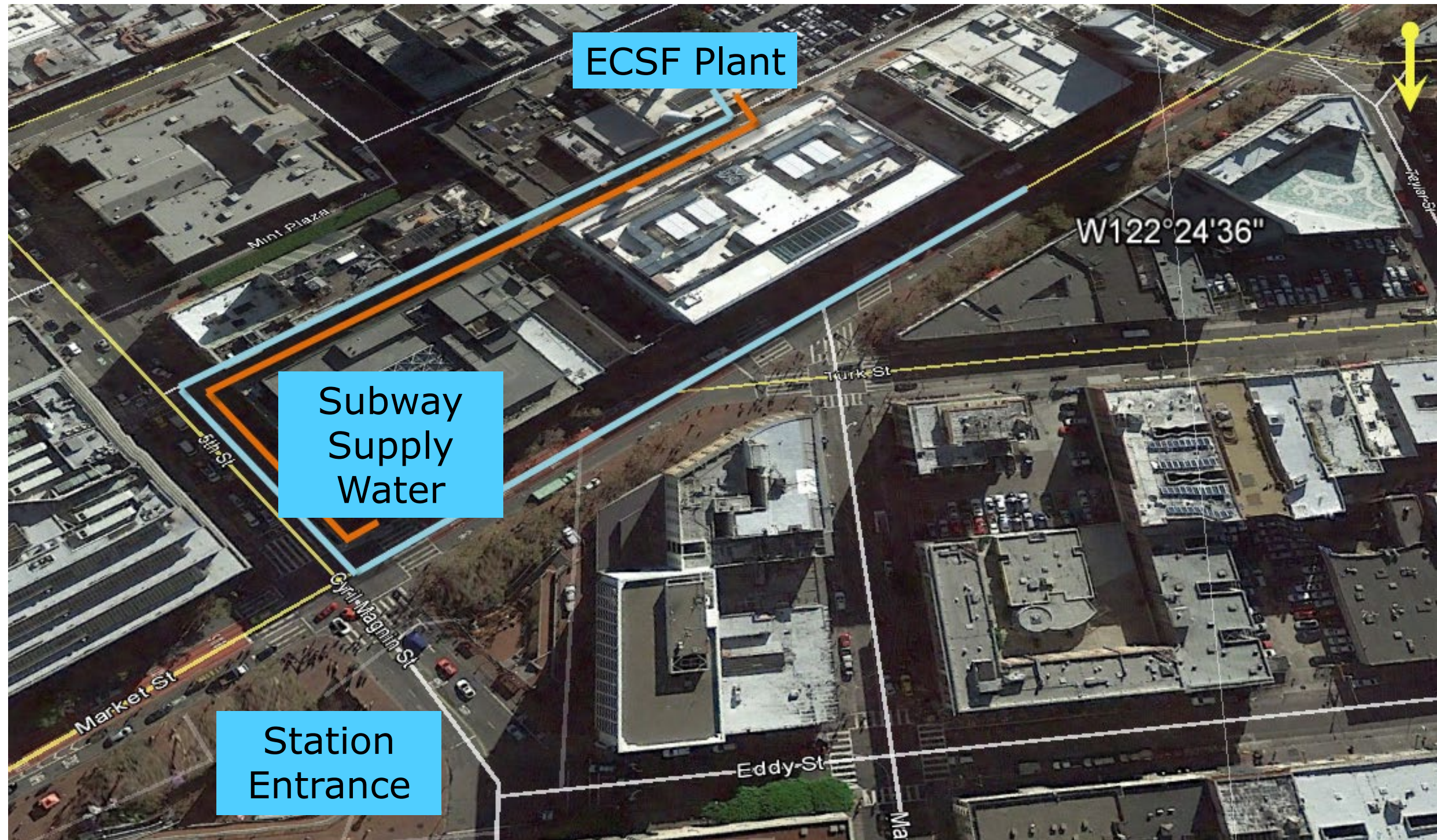


The Opportunity

- The Powell St. Subway Station is 2 blocks from ECSF and disposes of 30 Mgal of ground water intrusion per year.
- The San Francisco Public Utilities Commission is aggressively looking for large, water reuse projects and is offering up to \$500k grants to bring them about.
- Is there a way to bring the needs of Public and Private entities together to create a solution that is a win for everyone?

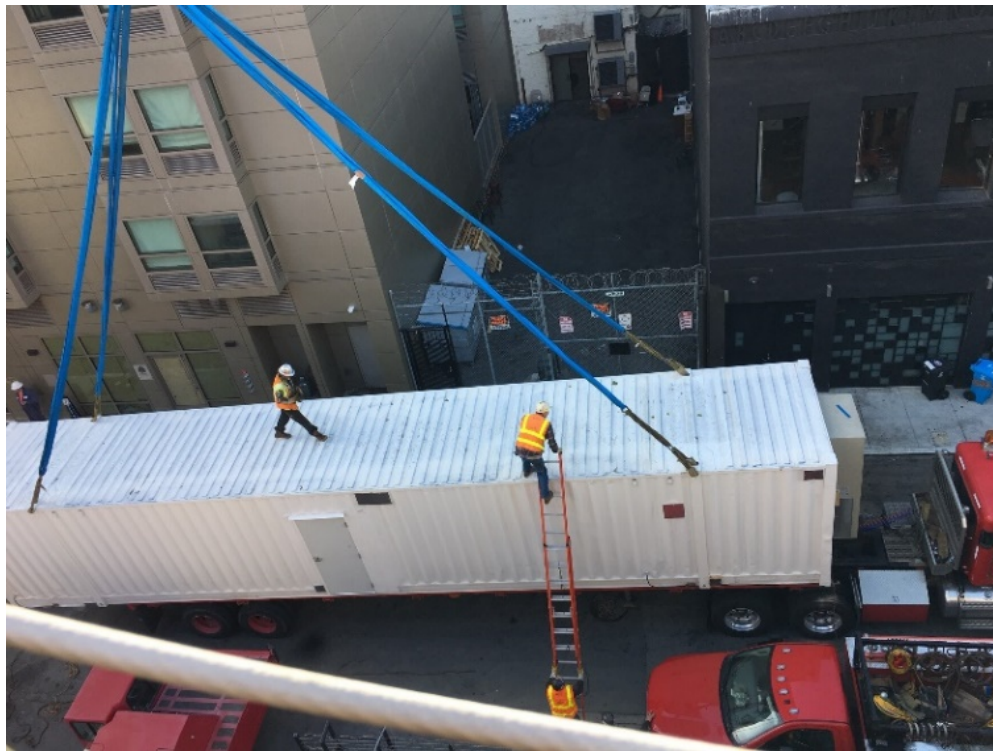


The Execution - Pipeline



The Execution - Plant

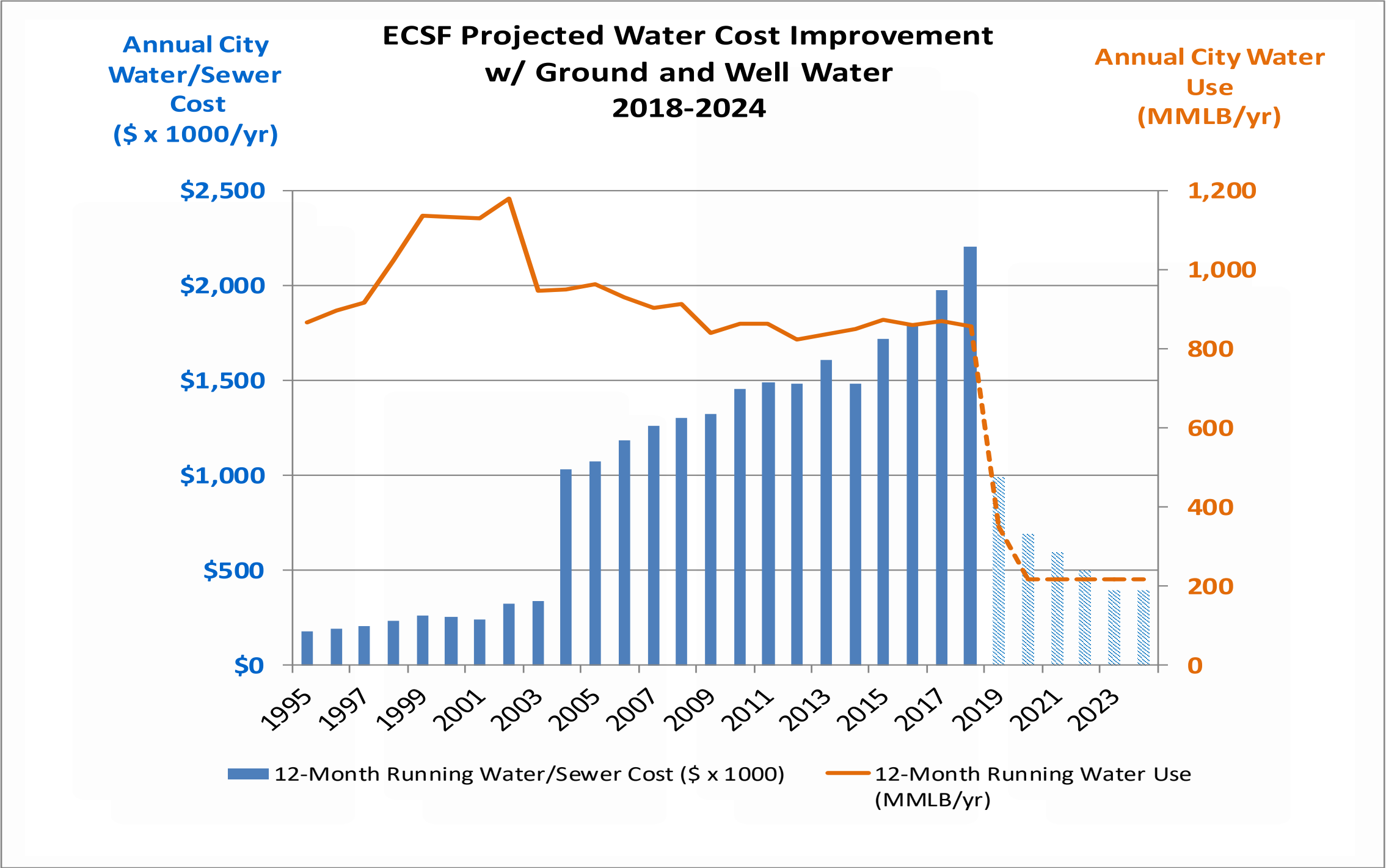
- All Piping & Structural Steel Work Done by Employees
- Water Treatment Plant Was Mostly Modular Construction



The Results

- Total Project Cost (Ground Water Only): \$3.5M
- Total Annual Savings (Ground Water Only): \$1M, 3.0 year payback
 - \$800k Water Sewer, \$200k Chemical Savings
- SFPUC Grant for \$500k
- Enhanced Savings by Adding On-Site Well
 - Test Well Indicates Steady 200 gpm Available for an Incremental \$250k
 - Improves Project Savings by Additional \$800k per Year, 0.3 Year Payback
- Using a Combination of Ground Water and Well Water Will Allow ECSF to Market a New Product Called “Sustainable Steam”
 - Goal Would be to get USGBC LEED Points to Enhance Marketing of Steam in San Francisco

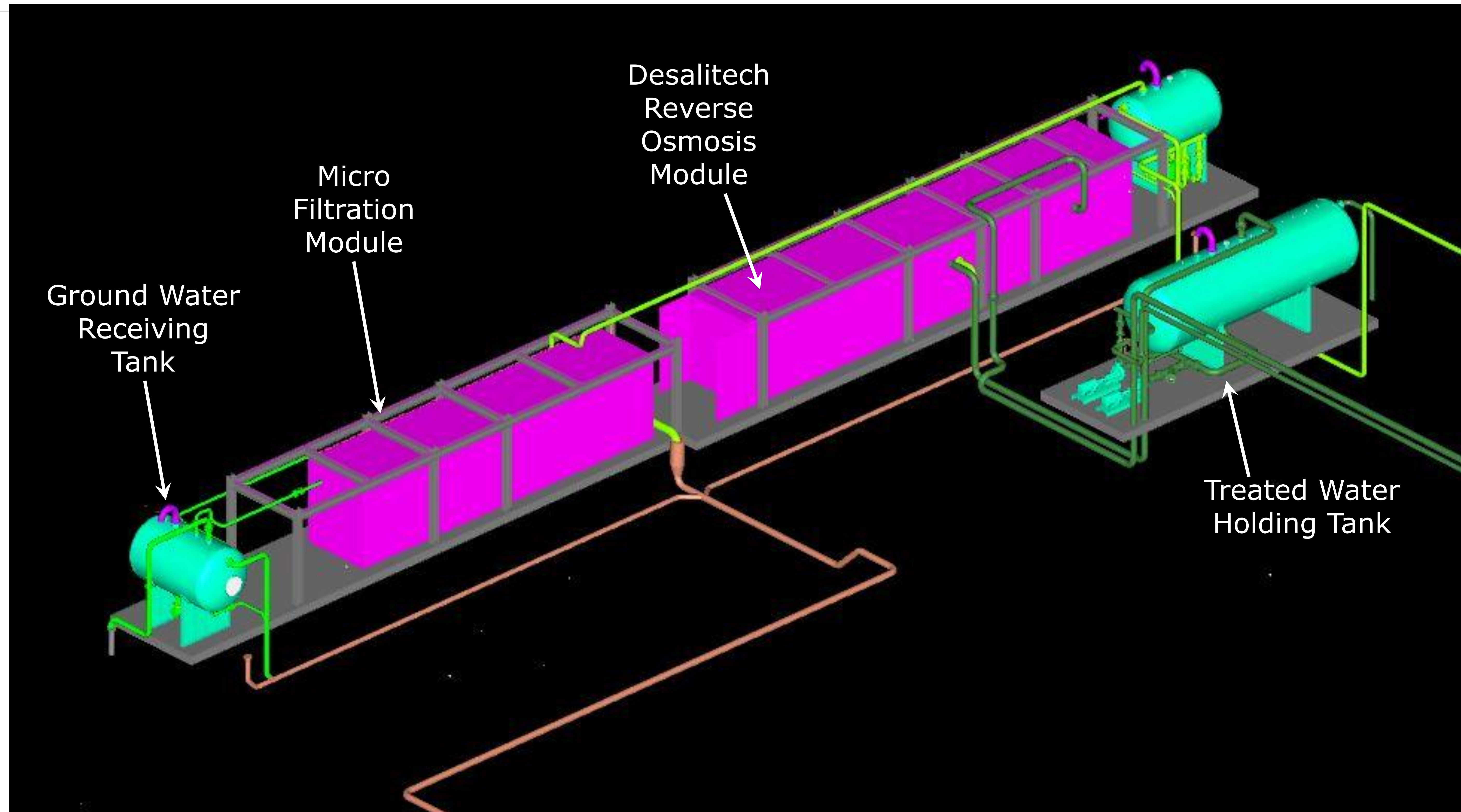
The Financial Results



Lesson Learned: Not What We Expected in Subway Water



The Design



The Design

