



ISLAND SUSTAINABILITY REPORT

SHPOA Director of Sustainability, Wally Bishop



10 Year Financial Plan



WATER SUPPLY & CONSERVATION

- **White paper on source of supply, long term availability, trends in water consumption, water conservation, landscape plantings and water usage**
- **2016 POY Native plantings, demonstration garden and irrigation equipment upgrade**
- **Conservation: Slows subsidence, reduces sewage, reduces electricity usage, maintains water quality, and life of aquifer**



BAY AND BASINS DREDGING

- **2 year effort to remove 10 years of accumulated sediment completed - \$11.5 million**
- **SHPOA conducted a review of what was done and how it was done**
- **Submitted a report to Borough in December 2017 – “Good, Bad, and the Ugly”**
- **Recommendations:**
 - Maintenance activity – scheduled every 3-5 years
 - Annual monitoring of sediment infill rates – set schedule
 - Reserve fund established for accumulating of revenues to fund maintenance activity – no bond funds
 - Use local regional disposal site



BEACH REPLENISHMENT

- **Over 700,000 cubic yards sand placed on SH beaches in 2017**
- **SH cost ~ \$2.0 million. State and Feds funded ~ \$5.0 million**
- **State requires 50% match. Fed requires 10% match**
- **Winter storms have taken ~ half of the sand placed last year
275,000 – 350,000 cubic yards**
- **SH must have an annually funded reserve that accumulates local match for beaches – use of bonds is not appropriate or sustainable**
- **Need to solve Hereford Inlet – Federal problem**



FLOOD MANAGEMENT

- **Problem caused by – Volatile weather extremes, tidal events, increased runoff, inadequate infrastructure, (storm drain system, bulkheads) sea level rising**
- **Island drainage – Pumped off versus gravity flow (new \$3.0 million pump station) upgrades in storm drain system**
- **Bulkhead ordinance – Raise elevations, replace old low level bulkheads, gradually upgrade elevations on newer bulkheads**
- **SHPOA Project of the Year – Flood monitoring sensors**