

PUMP STATION RESILIENCY INITIATIVE

STATE PROGRAM: New Jersey Environmental Infrastructure Bank

ASSISTANCE RECIPIENT: South Monmouth Regional Sewerage Authority

ASSISTANCE AMOUNT: \$6M



PROJECT DESCRIPTION

The South Monmouth Regional Sewerage Authority (SMRSA) operates a sewage treatment plant and a conveyance system servicing several coastal communities that have recently experienced extreme weather events. Using the NJ Water Bank's Statewide Assistance Infrastructure Loan (SAIL) Program, SRF funds were used to provide short-term financing to SMRSA as an advance for Federal Emergency Management Agency (FEMA) assistance to build three resilient pump stations.

Two of these pump stations are fully operational mobile units that can be disconnected during a severe storm and hauled to a safe location. Once the storm subsides, the mobile stations are returned and reconnected. These mobile resilient pump stations (MRPS) contain main electrical components, computer equipment, and an emergency generator all located on a mobile trailer at the original pump station site. Older pump stations in coastal areas have received serious damage in recent years, costing millions of dollars to repair and left the community without sewer services. The MRPS limits the disruption in conveyance, minimizes sewer overflows, and saved SMRSA millions of dollars by preventing damage from future storms. The third pump station replaced an older station that was in a 100-year flood zone. This new pump station is a permanent fixture designed to look like the neighboring residential housing and was placed outside the floodplain. All three of these pump stations were made possible through the NJ Water Bank's SAIL Program which helped SMRSA save an estimated \$1.9 million in short and long-term interest costs.

To read more about this case study, please visit [epa.gov/sites/default/files/2018-11/documents/pisces_2018_compendium_0.pdf](https://www.epa.gov/sites/default/files/2018-11/documents/pisces_2018_compendium_0.pdf).