South Kingstown Wastewater Treatment Facility - CLIMATE VULNERABILITY SUMMARY

South Kingstown WWTF is located at 275 Westmoreland Street in Narragansett. It treats an average of 2.4 million gallons of wastewater per day, serving approximately 29,400 customers in South Kingstown, Narragansett, and the University of Rhode Island. Additional information is on the back of this summary.

WOODARD &CURRAN

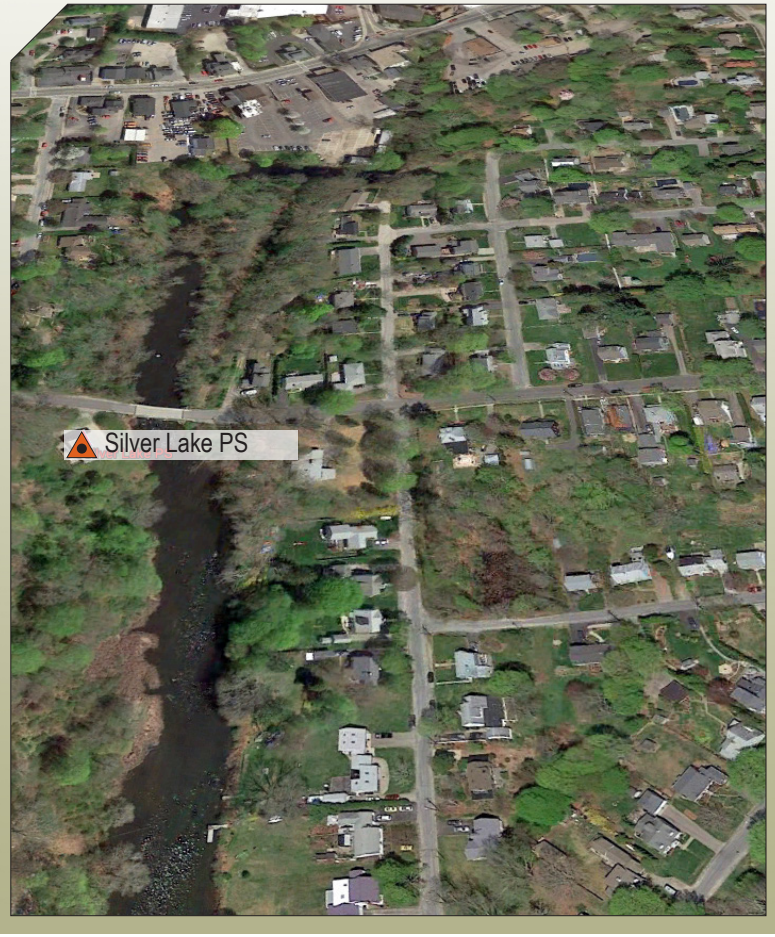
TOP HAZARD MODELING RESULT

Coastal Flood Hazard

Silver Lake PS, Middlebridge North PS, Middlebridge South PS, and Salt Pond PS inundated by 100-year storm

Legend

- Treatment Plant
- Pump Station
- Approx. Parcel Boundary
- 100-Year Flood Level
- 100-Year Flood Level Plus 1' SLR
- 100-Year Flood Level Plus 2' SLR
- 100-Year Flood Level Plus 3' SLR
- 100-Year Flood Level Plus 5' SLR



SOUTH KINGSTOWN, RI - CLIMATE VULNERABILITY SUMMARY

FACILITY SUMMARY

Owner	Town of South Kingstown
Operator	Town of South Kingstown
Facility Address	275 Westmoreland Street Narragansett, RI 02882
Contact Name	Kathy Perez, Superintendent
Phone	401.788.9771
Design Flow Capacity	5.0 MGD
Average Daily Flow	2.4 MGD
Receiving Water	Rhode Island Sound
Extreme Weather Related SSO Events 2010 - 2014	3 out of 8 events or 38%

High flows from the Kingston PS during rain events indicate I&I originating from the University of Rhode Island.	The WWTF appears well protected from climate change related event.
Fluctuations in flow received by the WWTF caused by I&I correspond to fluctuations in concentration, which complicates treatment.	Several pump stations are adjacent to coastal waters and lack back-up power.

ADAPTIVE STRATEGIES (SEE REPORT FOR COMPLETE LIST)

SYSTEM	Hardening	Relocating	Readily Repairable/ Replaceable	Redundancy	Mitigation Strategy
Silver Lake PS	A				Protect facility entrances with flood barriers. Elevate electrical equipment above grade.
Salt Pond PS	A				Elevate fuel tank, ventilation pipe, and electrical equipment.
Middlebridge North PS	A				Protect facility entrances with flood barriers and relocate building penetrations for louvers.
Middlebridge South PS	A				Protect facility entrances with flood barriers and relocate building penetrations for louvers.

A = < $50,000 B = $50,000 to $250,000 C = $250,000 - $1,000,000 D = > $1,000,000