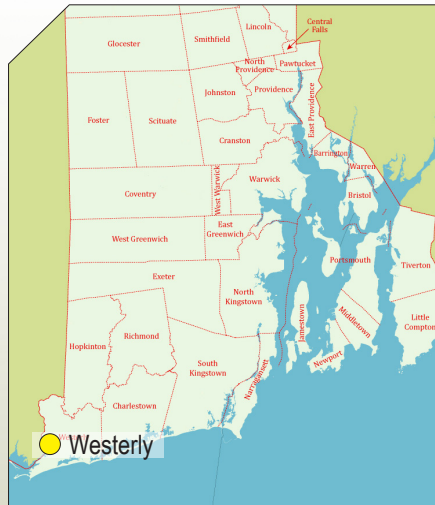


Westerly Wastewater Treatment Facility - CLIMATE VULNERABILITY SUMMARY



Westerly WWTF is located at 87 Margin Street in Westerly. It treats an average of 2.5 million gallons of wastewater per day, serving approximately 16,500 customers in Westerly. Additional information is on the back of this summary.



TOP 3 HAZARD MODELING RESULTS

Coastal Flood Hazards

New Canal, Old Canal and Margin Street Pump Stations would be inundated by storm surge at the 100-year return period.

Coastal Flood Hazards

With 3 to 5 feet of SLR, the plant's secondary clarifiers, chlorine contact tank and operations building would be impacted during a 100-year storm.

Significant Wave Height for 100-year Event

5± feet approaching the site with reduced wave heights moving inland.



Legend

- Treatment Plant
- Pump Station
- Approx. Parcel Boundary

COASTAL HAZARDS

- Wave Transect
- 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



COMPLETED CLIMATE CHANGE ADAPTATION MEASURES

Recent climate change resiliency improvements include installing new generators and sealing low-elevation exterior building penetrations at the pump stations adjacent to the Pawcatuck River.

WESTERLY, RI - CLIMATE VULNERABILITY SUMMARY

FACILITY SUMMARY

Owner	Town of Westerly
Operator	Suez
Facility Address	87 Margin Street Westerly, RI 02891
Contact Name	Scott Duerr, Superintendent
Phone	401.596.2847
Design Flow Capacity	3.5 MGD
Average Daily Flow	2.5 MGD
Receiving Water	Pawcatuck River
Extreme Weather Related SSO Events 2010 - 2014	3 out of 5 events or 60%

<p>The Margin Street Pump Station has a pumping capacity greater than the capacity of the treatment facility's headworks. If all 3 pumps at the pump station are operating simultaneously, the grit chamber at the WWTF will overflow causing an SSO event.</p>	<p>Some of Westerly's pump stations are subject to inundation from both coastal and inland flooding. The riverine hazard assessment, however, does not include coverage of those locations because they are in the Coastal AE zone.</p>
---	---

ADAPTIVE STRATEGIES (SEE REPORT FOR COMPLETE LIST)

SYSTEM	Hardening	Relocating	Readily Repairable/ Replaceable	Redundancy	Mitigation Strategy
Secondary Clarifiers	B		B	B	Protect facility entrances with flood barriers. Replace sludge pumps with submersibles. Store replacement drive components on site. Pumps may be temporarily augmented.
Disinfection System (Chlorine Contact Tanks)	A	B			Elevate or relocate disinfection system components.
New Canal PS	A				Protect facility entrances with flood barriers and relocate building penetrations for louvers. Elevate back-up generator systems.
Old Canal PS	A				Protect facility entrances with flood barriers. Elevate back-up generator systems.
Margin Street PS	A				Protect facility entrances with flood barriers .

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