Aldrich + Elliott
WATER RESOURCE ENGINEERS

City of Newport
2025 CSO Annual Report

This annual report is submitted to satisfy Part (I)(1) of the 1272 Order dated May 2, 2022.

(i) Compliance with the minimum controls:

The City of Newport complied with the nine minimum controls as outlined in EPA's form 832-B-95-003, and Part (6)(b) of the 1272 Order.

(ii) Condition and Operation of the CSS:

The collection system is in average condition with many original pipeline segments. The majority of sewer outfalls were constructed in 1963, and were designed by Whitman & Howard Engineers. The majority of the combined system was separated in 1994, but some sections of the collection system still experience inflow and infiltration.

There are six remaining combined sewer (CS) overflows in the City of Newport system as updated in the Long-Term Control Plan completed in March 2021. The remaining CSO outfalls are summarized below in Table 1.

Table 1
Remaining CSO Outfalls

Name/Location	S/N	Latitude	Longitude	Status
Western Avenue	006	44.936682	-72.202376	Open
Bayview Street/ Fyfe Drive	010	44.9363063	-72.2114273	Open
Union Street Pump Station	013	44.951468	-72.19601	Open
Lake Road Pump Station	014	44.934064	-72.2170064	Open
Causeway Siphon	015	44.9403623	-72.2040217	Open
Bluff Road Pump Station	016	44.9548909	-72.204133	Open

The City owns a Vactor truck to clean the sewer and drainage systems and maximize flow to the plant for treatment. The City rehabilitates and/or replaces segments of sewer line on an as need basis allowing for some infiltration into the CS system to be reduced.

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(iii) Frequency, Duration and Magnitude of Rainfall and CSO's:

The City is not actively monitoring rainfall within the City with a dedicated rain gage. Rainfall data is readily available from a rain gage located in St. Johnsbury. This data was accessed and summarized as the best-available estimate of rainfall within the City. A summary of larger rainfall events >0.75" (24-hour total) is provided in Table 2 for 2025.

- In 2025, fifteen (15) rainfall events were recorded that were greater than 0.75" in a 24-hour period.
- The largest 24-hour event occurred on May 17th 2025, a total of 1.67" of precipitation were recorded. The ground was likely pre-saturated as 0.83" of precipitation fell on May 16th prior to the storm.

It wasn't possible to report rainfall intensity as this data isn't being tracked by the St. Johnsbury weather station.

Table 2
2025 Rainfall Data
Rainfall Events > 0.75"

Date	Total Daily Rainfall (inches)
03/23/2025	0.91
03/29/2025	0.83
04/26/2025	0.90
05/16/2025	0.83
05/17/2025	1.67
05/31/2025	0.87
07/27/2025	0.98
08/10/2025	1.37
08/31/2025	1.37
09/06/2025	0.93
09/25/2025	1.03
10/07/2025	0.97
10/08/2025	1.29
10/20/2025	1.09
12/29/2025	0.80

(iv) Frequency, Duration and Magnitude of CSO's:

There were no CSO events recorded at any of the CSO outfalls in 2025. The City checks telltale blocks at each overflow location after larger rainfall events.

In May of 2020 the City installed level monitoring units at two of the major overflow locations (S/N 015 and S/N 006). These units are installed in sewer manholes, and

give instantaneous reporting on current levels. Since installation, the units have recorded at 15 minutes intervals These units interface with the City's existing SCADA system and the units will continue to be monitored for increases in level during 2026.

(v) Status of Long-Term Control Plan:

The existing Long-Term Control Plan report was submitted on October 26, 2021.

The City has tasked Aldrich + Elliott with creation of a revised Long Term Control Plan report as required by Section VII of the 1272 order.

Western Avenue CSO Update

While no CSO events were recorded in 2025, the flow monitoring data for the Western Avenue CSO (S/N 006) was analyzed to determine if sufficient data has been collected to justify closing the overflow. The overflow location has not had a reported overflow in over 10 years. It was observed that the peak level recorded in the structure was 1.51 feet on 5/17/26 at 5:45 PM. The peak level accompanied the peak rainfall event of 2025 when 1.67 inches of precipitation were observed. The station's alarm is set at 10 feet of elevation within the structure, reportedly below the overflow elevation. The CSO level monitoring did not come close to approaching the overflow elevation in 2025.

However, given the lack of precipitation intensity data, and the significantly dry weather in 2025, this data does not support closing the CSO on it's own. The 2026 long-term control plan update should include further data analysis to determine if this action is warranted at this time.

As an alternative to abatement, the city may need to provide additional emergency/offline storage if the precipitation and level monitoring data does not warrant removal.

Causeway Siphon Update

While no CSO events were recorded in 2025, the flow monitoring data for the Causeway Siphon were analyzed to determine if sufficient data has been collected to plan or modify the current CSO status. Unfortunately, due to the lack of precipitation intensity data it isn't possible to draw decisive conclusions on the 2025 data. However, the monitor level was reportedly constant for all dates observed from April 17, 2025 until December 31, 2025.

The reported overflow elevation is a minimum of 6 feet from the bottom of the structure and the maximum reported water was negligibly above the floor of the structure in 2025.

A+E completed design and a contractor has begun work to construct a new siphon structure below the Clyde river. The new siphon will provide an additional outlet upstream of the overflow structure and will further minimize the chances of an overflow occurring at this location.

The 2026 Long Term Control Plan should incorporate additional data, including precipitation intensity data to justify abatement of this overflow point. If abatement is deemed to be unavailable, planning should begin for emergency/overflow storage to handle peak precipitation events.

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(vi) CSO Control Accomplishments:

As part of the development of the Long-Term Control Plan, an implementation schedule was created, and the 2025 tasks are updated below.

The coordination with property owners on Bayview/Fyfe Drive for the disconnection of roof drains is ongoing. At this time the City has identified that the following properties have tie-ins to the sewer-shed service area:

35 Bayview St
40 Bayview St
50 Bayview St
United Christian Academy
97 School St

None of these roof drain disconnections have occurred to-date, and planning may need to be incorporated into the updated LTCP prepared in 2027.

Additional storage was added to the Bluff Road Pump station in 2025. A new 8 ft diameter wet well was installed adjacent to the existing pump station and the overflow point was reconnected to the new storage structure to limit the likelihood of overflow events occurring. Construction is complete.

Final Design services were completed for improvement of the Causeway Siphon. The proposed project will install an additional inverted siphon under the Clyde River connecting Gardner Park to the WWTF. The Bid period for the project is currently open and the City anticipates completing construction of the project in 2026.