SEWAGE FREE STREETS AND RIVERS

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Bayonne Long Term Control Plan Fact Sheet

What is at Stake

When it rains in Bayonne, the combined sewer system overflows into nearby waterways and localized flooding can have a combination of sewage and stormwater. This is known as a combined sewer overflow (CSO). The City of Bayonne, one of 25 CSO permittees, has submitted a Long Term Control Plan (LTCP) proposing large water infrastructure projects to reduce and/or eliminate CSOs. As of October 2020, the plan is under review by the New Jersey Department of Environmental Protection (NJDEP) and will be finalized in 2021.

Passaic Valley Sewerage Commission (PVSC) is the sewer treatment plant that treats the combination of sewage and stormwater from Bayonne along with seven other communities with combined sewer systems in the region. Most of these communities have agreed to work on a regional Long Term Control Plan. They have six additional months to finalize the financing of the regional plan, but if they can not come up with an agreement they will revert to municipal-only plans. Many of the projects in the regional and municipal plans will remain the same. This fact sheet reflects the projects that would only be in a regional plan, the projects that would be the same in a regional and municipal plan, and the municipal-only projects. The financing for the regional plan has not been decided, so the financing options below reflect the cost of a municipal-only plan.

Each of the selected options will cost millions of dollars and impact neighborhoods for decades. Please use this fact sheet to assist in developing comments to submit to the New Jersey Department of Environmental Protection.

The Basics

Annual CSO Volume in Bayonne

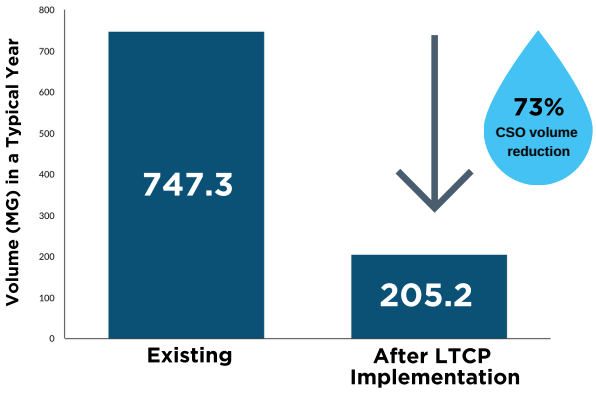

Figure 1. Annual CSO volume (million gallons) in Bayonne. In a typical year under existing conditions, Bayonne has an overflow volume of 747.3 million gallons. The anticipated overflow volume after LTCP implementation is 205.2 million gallons, representing a volume reduction of 73%.

Bayonne Projects by Capital Cost

(27.8 MGD Conveyance)

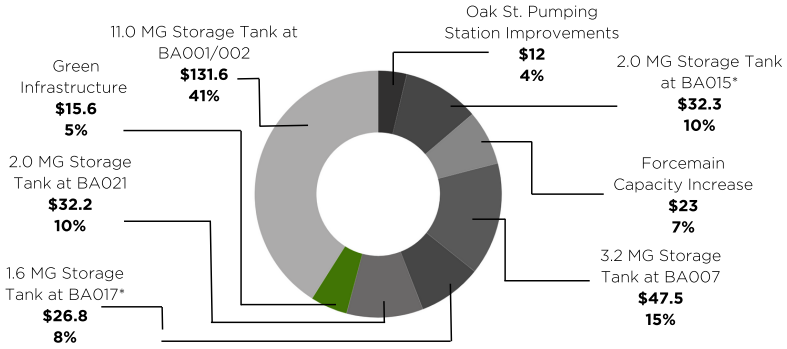

Figure 2. Bayonne plan projects by capital cost ($ million), with relative percentages by cost, assuming the 27.8 MGD conveyance option. Collectively, the Bayonne plan will cost $321 million. Including present worth operations and maintenance costs, the plan will cost $341 million. Note that these costs are based on the individual municipal plan, as opposed to the PVSC regional plan. Asterisks indicate projects that are not included in the PVSC regional plan. Refer to Table 2 in the appendix for a full list of Bayonne projects and costs.

Project Timeline

GI = Green Infrastructure
PS = Pumping Station

2021 - 2030
Phase 1 GI*

2021 - 2022
Oak St. PS Improvements

2023 - 2025
Force Main Capacity Increase

2023 - 2024
2.0 MG Storage Tank (Outfall BA015)

2027 - 2029
3.2 MG Storage Tank

2027 - 2040
Phase 2 GI*

2036 - 2036
1.6 MG Storage Tank

2040 - 2041
2.0 MG Storage Tank (Outfall BA021)

2041 - 2050
Phase 3 GI*

2045 - 2049
11.0 MG Storage Tank

**Indicates projects that are in the municipal plan only.*

Green Infrastructure

The plan calls for between 3% and 5% of runoff from hard surfaces to be managed by green infrastructure. The projects would include tree pits, pervious pavement, and underground detention basins.

Financing

The plans would be funded by rate increases. Bayonne would exceed what is considered a high burden for ratepayers (more than 2% of median household income) before the plan is fully implemented. Plan implementation is proposed for 30 years.

Public Participation

Bayonne, along with the other PVSC district CSO communities performed joint public outreach activities which are documented in the regional Selection and Implementation of Alternatives Report. These include forming the Clean Waterways Healthy Neighborhoods public outreach initiative that included a website and social media platforms along with a regional Supplemental CSO Team that held quarterly public meetings to discuss the LTCP. It is noted that green infrastructure was included in the LTCP due to public input.

Environmental Justice Considerations

Environmental justice considerations are not mentioned in the plan.

Climate Change Considerations

Climate change is incorporated in the LTCP through evaluation and selection of the precipitation period used to size the CSO mitigation measures.

How to Submit Comments

- Download and Review Long Term Control Plans at https://www.nj.gov/dep/dwq/cso-ltcpsubmittals.htm
- Comments on the LTCPs can be submitted to these NJDEP CSO Team Leaders. Copy Susan Rosenwinkel Susan.Rosenwinkel@dep.nj.gov, bureau chief of surface water permitting at NJDEP, and the relevant permittee contact.
- NJDEP will review comments through January 31, 2021.
- After submitting comments to NJDEP and your CSO permit holder, make sure to share your comments with your local officials, environmental commission, and planning/zoning boards.

Additional Information

- City of Bayonne CSO webpage
- Bayonne CSO contact: City of Bayonne Engineer John Armstrong, jarmstrong@baynj.org
- Long Term Control Plan submittals
- Jersey Water Works CSO Review page

For more information, visit https://sewagefreenj.org

Sewage-Free Streets and Rivers is organized by its partners and an advisory board, with the support of New Jersey Future.

Appendix

Table 1. Bayonne LTCP Basics - Outfalls, Overflows, and Total Costs

Outfalls	28
Annual overflow volume — existing conditions	747.3 MG
Annual overflow volume — after implementation	205.2 MG
Percent overflow volume reduction	73%
Percent capture after implementation, as reported in the plan (min. of 85% required)	85%
Project costs	$321 million

*MG = million gallons

Table 2. Bayonne LTCP Project Costs (27.8 MGD Conveyance) and Implementation Schedule

Project	Capital Cost ($ million)	Start Year	End Year
Phase 1 Green Infrastructure*	5.2	2021	2030
Oak Street Pumping Station Improvements	12	2021	2022
2.0 MG Storage Tank at BA015*	32.3	2023	2024
Forcemain Capacity Increase	23	2023	2025
3.2 MG Storage Tank at BA007	47.5	2027	2029
Phase 2 Green Infrastructure*	5.2	2031	2040
1.6 MG Storage Tank at BA007*	26.8	2036	2036
2.0 MG Storage Tank at BA021	32.2	2040	2041
Phase 3 Green Infrastructure*	5.2	2041	2050
11.0 MG Storage Tank at BA001/002	131.6	2045	2049
Total	**321**	**29 years**	

*Indicates projects that are only in the municipal plan, and thus, not in the PVSC regional plan.