PUBLIC PARTICIPATION PROCESS REPORT

Prepared by the Passaic Valley Sewerage Commission on behalf of the following participating Permittees:

Passaic Valley Sewerage Commissioners (NJ0021016)
City of Bayonne (NJ0109240)
Borough of East Newark (NJ0117846)
Town of Harrison (NJ0108871)
Jersey City Municipal Utilities Authority (NJ0108723)
Town of Kearny (NJ0111244)
City of Newark (NJ0108758)
Township of North Bergen (NJ0108898)
City of Paterson (NJ0108880)

North Bergen Municipal Utilities Authority (Woodcliff) (NJ0029084) Town of Guttenberg (NJ0108715)

Passaic Valley Sewerage Commission
Essex County
600 Wilson Avenue
Newark, New Jersey



June 2018

PROJECT MANAGEMENT AND CERTIFICATIONS

SUMMARY OF CHANGES

This Report documents the public participation process and public outreach activities that were utilized for the development of the Passaic Valley Sewerage Commission's Combined Sewer Overflow Long Term Control Plan and the North Bergen Municipal Utilities Authority's Woodcliff Sewerage Treatment Plant Long Term Control Plan.

Future versions of this section will describe additional activities, actions, and measures the parties will have implemented since the publication of this Report.





TITLE OF REPORT AND APPROVAL

Title:	Public Participation Report		
Preparer:	1001	, ,	
Public Outreach Project Officer:	7/Kley///2	4/20/18	
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LTCP Consultant QA Officer:	Michael J. Hope, P.E., Greeley and Hansen LLC	Date 6/20/18	
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		Date /	
New Jersey Department of Environmental Protection			
DEP Permits:			
	Joseph Mannick, CSO Coordinator	Date	

Submitted by Passaic Valley Sewerage Commission

NJPDES Number NJ0021016 (Passaic Valley Sewage Commission)

Approval of Report:				
Permittee:		06	20/2	2018
	Bridget McKenna		Date	
	Chief Operating Officer, Passaic Valley Sewerage Commission			

NJPDES Certification:

Without prejudice to any objections timely made to permit conditions, I certify under penalty of law that this document and all attachments were prepared either: (a) under my direction or supervision; or (b) as part of a cooperation performed by members of the NJ CSO group effort in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for purposely, knowingly, recklessly, or negligently submitting false information.

Permittee:

Bridget McKenna
Chief Operating Officer, Passaic Valley Sewerage Commission

Date



Submitted on behalf of the following participating Permittee by Passaic Valley Sewerage Commission

NJPDES Number NJ0109240 (Bayonne City)

Approval of Report:

Permittee:

Timothy Boyle

6.19.18

Superintendent, City of Bayonne Department of Public Works

NJPDES Certification:

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Permittee:

Timothy Boyle

Superintendent, City of Bayonne Department of Public Works

Submitted on behalf of the following participating Permittee by Passaic Valley Sewerage Commission

NJPDES Number NJ0117846 (East Newark)

Approval of Report:

Permittee:

Frank Pestana

Licensed Operator, Borough of East Newark

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Permittee:

Frank Pestana

Licensed Operator, Borough of East Newark

Date





Submitted on behalf of the following participating Permittee by Passaic Valley Sewerage Commission

NJPDES Number NJ0108871 (Harrison)

Approval of Report:

Permittee:

Rocco Russomano

Town Engineer, Town of Harrison

NJPDES Certification:

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Permittee:

Rocco Russomano

Town Engineer, Town of Harrison

Submitted on behalf of the following participating Permittee by Passaic Valley Sewerage Commission

NJPDES Number NJ0108723 (Jersey City MUA)

Approval of Report:

Permittee:

Rich Haytas

Senior Engineer, Jersey City MUA

NJPDES Certification:

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Permittee:

Rich Haytas

Senior Engineer, Jersey City MUA

Date

6/20/18

Public Participation Report

Submitted on behalf of the following participating Permittee by Passaic Valley Sewerage Commission

NJPDES Number NJ0111244 (Kearny)

Approval of Report:

Permittee:

Robert J. Smith

Town Administrator, Town of Kearny

NJPDES Certification:

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Permittee:

Robert J. Smith

Town Administrator, Town of Kearny

Date

6/20/18





Submitted on be	ehalf of the following participating Permittee by Passaid Commission	c Valley Sewerage
	NJPDES Number NJ0108758 (Newark)	
Approval of Report:		
i cimitice.	Ras J Baraka Mayor, City of Newark	Date
NJPDES Certification	1:	

Without prejudice to any objections timely made to permit conditions, I certify under penalty of law that this document and all attachments were prepared either: (a) under my direction or supervision; or (b) as part of a cooperation performed by members of the NJ CSO group effort in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information. Based on my inquiry of the person or persons who manage the system of those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for purposely, knowingly, recklessly, or negligently submitting false information.

Permittee:

Ras J Baraka

Date

Mayor, City of Newark



Submitted on behalf of the following participating Permittee by Passaic Valley Sewerage Commission

NJPDES Number NJ0108898 (North Bergen MUA)

Approval of Report:

Permittee:

Frank Pestana

Exec. Director, North Bergen MUA

NJPDES Certification:

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Permittee:

Frank Pestana

Exec. Director, North Bergen MUA

Submitted on behalf of the following participating Permittee by Passaic Valley Sewerage Commission

NJPDES Number NJ0108880 (Paterson)

Approval of Report:

Permittee:

Manny Ojeda

Director Public Works, City of Paterson

NJPDES Certification:

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Permittee:

Manny Ojeda

Director Public Works, City of Paterson





Submitted on behalf of the following participating Permittee by Passaic Valley Sewerage Commission

NJPDES Number NJ0029084 (North Bergen Woodcliff)

1.21	0.75	
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Permittee:

Frank Pestana

Executive Director, North Bergen MUA

NJPDES Certification:

Without prejudice to any objections timely made to permit conditions, I certify under penalty of law that this document and all attachments were prepared either: (a) under my direction or supervision; or (b) as part of a cooperation performed by members of the NJ CSO group effort in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for purposely, knowingly, recklessly, or negligently submitting false information.

Permittee:

Frank Pestana

Executive Director, North Bergen MUA



Submitted on behalf of the following participating Permittee by Passaic Valley Sewerage Commission

NJPDES Number NJ0108715 (Town of Guttenberg)

Approval of Report:

Permittee:

Frank Pestana

Licensed Operator, Town of Guttenberg

NJPDES Certification:

Without prejudice to any objections timely made to permit conditions, I certify under penalty of law that this document and all attachments were prepared either: (a) under my direction or supervision; or (b) as part of a cooperation performed by members of the NJ CSO group effort in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for purposely, knowingly, recklessly, or negligently submitting false information.

Permittee:

Frank Pestana

Licensed Operator, Town of Guttenberg

Date

6/25/18





DISTRIBUTION LIST

Passaic Valley Sewerage Commission

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Marques Eley, PE, Senior Engineer

Other Entities Participating by Associated Sewage Treatment Plant

Passaic Valley Sewerage Commission (PVSC): Paterson; Newark; Kearny; Harrison; Bayonne MUA; Jersey City MUA; North Bergen MUA

North Bergen MUA – Woodcliff Plant: North Bergen Township; Guttenberg

New Jersey Department of Environmental Protection

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Nancy Kempel, Surface Water Permitting

Dwayne Kobesky, Surface Water Permitting

Joseph Mannick, Surface Water Permitting

Marc Ferko, Office of Quality Assurance

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Public Participation Report

Brigite I. Goncalves Administrative Assistant, Deputy Registrar, Chief Finance Officer, Treasurer, RPPO/RPPS, Planning Board Secretary Borough of East Newark 34 Sherman Avenue East Newark, NJ 07029





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Executive Summary

Executive Summary

ES-1 Background

The Passaic Valley Sewerage Commission (PVSC) provides wastewater treatment service to approximately 1.5 million people, 198 significant industrial users, and 5,000 commercial customers across 48 municipalities in northeastern New Jersey, covering parts of Bergen, Hudson, Essex, Union and Passaic counties.

The PVSC Sewerage District covers approximately 150 square miles from Newark Bay to regions of the Passaic River Basin upstream of the Great Falls in Paterson (PVSC Sewerage District). PVSC's main interceptor sewer begins at Prospect Street in Paterson and generally follows the alignment of the Passaic River to just above Newark Bay, where PVSC owns and operates a 142-acre water resource recovery facility (WRRF) in an industrial area of Newark, New Jersey. PVSC has a permitted annual average capacity of 330 million gallons per day.

There are eight municipalities within the PVSC Sewerage District that are serviced either in whole or in part by combined sewer systems. These municipalities (or associated municipal utilities authorities) entities hold New Jersey Pollutant Discharge Elimination System (NJPDES) permits, authorizing them to discharge combined sewage to surface waters during certain conditions. Two of the municipalities, Bayonne and Jersey City, own and operate their own combined sewer systems, interceptors, combined sewer outfall control facilities, and pumping stations. They jointly own the Hudson County Force Main, used to transport wastewater to the primary clarifiers at the PVSC WRRF. The North Bergen Municipal Utilities Authority (NBMUA) connects to PVSC through the Hudson County Force Main and owns and operates combined sewer overflow (CSO) outfalls, but does not own the collection system. PVSC neither owns nor operates any of the CSO control or transportation facilities which service this section of the Sewerage District.

The other municipalities with combined sewer systems—the Borough of East Newark, the Towns of Harrison and Kearny, and the Cities of Newark and Paterson—are tributary to PVSC main interceptor, and most of their combined sewer systems are tributary to CSO control facilities owned and/or operated by PVSC. Newark also owns and operates its Southside Interceptor, which discharges directly to PVSC's plant headworks.

The NBMUA provides wastewater and treatment services at the NBMUA Woodcliff Wastewater Treatment Facility (NBMUA Woodcliff) for a portion of Township of North Bergen and the Town of Guttenberg. NBMUA Woodcliff treats approximately three million gallons of wastewater per day, servicing roughly 305 acres in the contributing area (181 in North Bergen (Woodcliff) and 124 in Guttenberg). One combined sewer outfall is located in North Bergen Township and another is located in Guttenberg; both discharge along the Hudson River.

The NJPDES permits require PVSC, NBMUA Woodcliff and any hydraulically connected CSO communities to cooperatively develop a CSO Long Term Control Plan (LTCP). PVSC has undertaken the development and implementation of the public participation program on behalf of the permittees to facilitate the process.





Public Participation Report

Executive Summary

This Report outlines the public participation process and the associated outreach program activities that have been conducted to date. The goals of the program are to foster public awareness and facilitate public involvement in the decision-making process towards developing and selecting the final LTCP. Continuing and future activities will be summarized and compiled in the final LTCP.

ES-2 Public Participation Summary

During the development of the LTCP, the permittees have conducted various public outreach activities in order to implement a process that actively involves the affected public, which includes communities within the PVSC Sewerage District and the NBMUA-Woodcliff Service Area. The diverse set of public activities include:

- Creation of a Supplemental CSO Team. A Supplemental CSO Team was created "as an informal work group [to act] as a liaison between the general public and the decision makers for the permittee," as required by NJPDES Permit Part IV.G.2.C. The Supplemental CSO Team is comprised of invited members of the affected and interested public, such as rate payers, industrial users, persons who reside downstream from the CSOs, and persons who use and enjoy the downstream waters.
- ❖ Regular Interest Group Meetings. The NJ CSO Group (all New Jersey CSO permittees) meets quarterly to discuss industry-wide concerns, including, but not limited to issues arising from the LTCP. The PVSC Sewerage District permittees have held monthly meetings since 2014 to discuss issues and goals directly related CSO compliance and the LTCP. PVSC has also held meetings with other existing groups and stakeholders within and outside of the PVSC Sewerage District. For example, PVSC holds quarterly conference calls with the New York City Department of Environmental Protection (NYCDEP) to coordinate data relative to the shared receiving streams. PVSC also attends New York − New Jersey Harbor & Estuary Program (NJ/NY HEP) Water Quality Work Group Meetings to provide information relative to the LTCP.
- ❖ Collaborations with a national, public research university. PVSC collaborated with Rutgers University's Department of Landscape Architecture to develop a curriculum that challenged students to solve environmental issues related to CSOs using green infrastructure. PVSC also partnered with Rutgers University to implement a municipal outreach and technical assistance program to provide guidance and direction to the 48 municipalities located within PVSC's Sewerage District on the benefits of green infrastructure.
- ❖ **Direct solicitation for input.** PVSC contacted the non-CSO permittees (separate sewer systems) to request discussions regarding the reduction of infiltration and inflow from those non-CSO communities.
- ❖ Computer Model Development Peer Review. A Model Evaluation Group (MEG) was formed as part of the development of the various models of the CSS and receiving waters. Members of the MEG included professors from regional universities whose fingers are on the pulse of the latest computational tools and technologies.





Public Participation Report

Executive Summary

- ❖ Variety of Communication Tools. Websites and social media, such as Facebook and Twitter, were utilized as an additional means of public outreach.
- ❖ Briefings for elected and appointed officials. Presentations were made to numerous municipal councils, administrators and officials within the PVSC Sewerage District to advise public decision makers with information related to the LTCP.
- ❖ Participation in topical conferences. PVSC gave presentations at regional and local seminars and conferences, such as the New Jersey Water Environment Association (NJWEA) Technology Transfer Seminar and also the NJWEA Annual Conference and Exposition. These presentations referenced a variety of topics relative to the LTCP, such as information pertaining to the water quality monitoring program and also the source sampling program.
- ❖ Presentations at established local events. PVSC has hosted a table with informative information at the North Bergen Health Green Fair for the past two years.





Section 1

Section 1 Introduction

1.1 Background of the Public Participation Program for CSO LTCP Development

A public participation and outreach program was implemented as part of the development of the Long Term Control Plan (LTCP). This Report outlines the public participation process and the associated activities that were conducted as of the date of this Report. The goals of the program are to foster public awareness and to facilitate public involvement in the decision-making process to develop and select the final LTCP. The plan will continue to be implemented throughout the continued development of the LTCP and the continued activities beyond the date of this Report will be compiled in the final LTCP.

1.2 Principal Data Users

The principal users of the public input received are PVSC, NBMUA, hydraulically connected CSO municipalities and permittees, and the engineering consultants supporting the development of the LTCP. PVSC shares the public input gathered during the public participation program with permittees within and outside of PVSC's Sewerage District. Permittees may use the input gathered to satisfy certain NJPDES permit requirements. **Table 1-1** defines the list of primary data users.

Water Resource Recovery Facility/ **Hydraulically Connected CSO Wastewater Treatment Plant Municipalities and Permittees** City of Paterson City of Newark Town of Kearny Town of Harrison Passaic Valley Sewerage Commission (PVSC) Borough of East Newark City of Bayonne Jersey City Municipal Utilities Authority North Bergen Municipal Utilities Authority North Bergen Municipal Utilities Authority North Bergen Municipal Utilities Authority (NBMUA) - Woodcliff Town of Guttenberg

Table 1-1: List of Primary Data Users

The primary data users elected PVSC to lead the development and implementation of the public participation program required for CSO permit compliance; however, all participating members actively participate in the public participation program and may utilize the input in the decision-making process to develop and select the final LTCP.

1.3 Decision Makers

PVSC has decision-making authority for the implementation of the public participation program. The Program Manager for PVSC is ultimately responsible for all technical, financial, and resource-related elements of the program and is the main contact for interagency communications. The implementation of





Public Participation Report

Section 1

the public participation program will continue beyond the date of this Report. Continued public outreach activities will be discussed in the final LTCP.

1.4 Purpose Definition and Background

PVSC provides wastewater treatment service to forty-eight municipalities in its northeast New Jersey Sewerage District, which covers approximately 150 square miles from Newark Bay to regions of the Passaic River Basin upstream of the Great Falls in Paterson, New Jersey. PVSC's main interceptor sewer begins at Prospect Street in Paterson, and generally follows the alignment of the Passaic River to the PVSC WRRF in Newark, New Jersey. The extent of the PVSC Sewerage District and the combined sewer areas within the study area are illustrated in **Figure 1-1**.

Eight municipalities within the PVSC Sewerage District are serviced either in whole or in part by combined sewer systems. These municipalities (or associated municipal utilities authorities) hold New Jersey Pollutant Discharge Elimination System (NJPDES) permits, authorizing them to discharge combined sewage to surface waters during certain conditions. Two of the municipalities, Bayonne and Jersey City, own and operate their own combined sewer systems, interceptors, combined sewer outfall control facilities, and pumping stations. They jointly own the Hudson County Force Main, used to transport wastewater to the primary clarifiers at the PVSC WRRF. The North Bergen Municipal Utilities Authority (NBMUA) connects to PVSC through the Hudson County Force Main and owns and operates combined sewer overflow (CSO) outfalls, but does not own the collection system. PVSC neither owns nor operates any of the CSO control or transportation facilities which service this section of the Sewerage District.

The other municipalities serviced by combined sewer systems are East Newark, Harrison, Kearny, Newark, and Paterson. Newark owns and operates its Southside Interceptor, which connects directly to the PVSC headworks. A general schematic of the PVSC system is included in **Figure 1-2**. All of these municipalities are tributary to PVSC main interceptor, and most of their combined sewer systems are tributary to CSO control facilities owned and/or operated by PVSC.





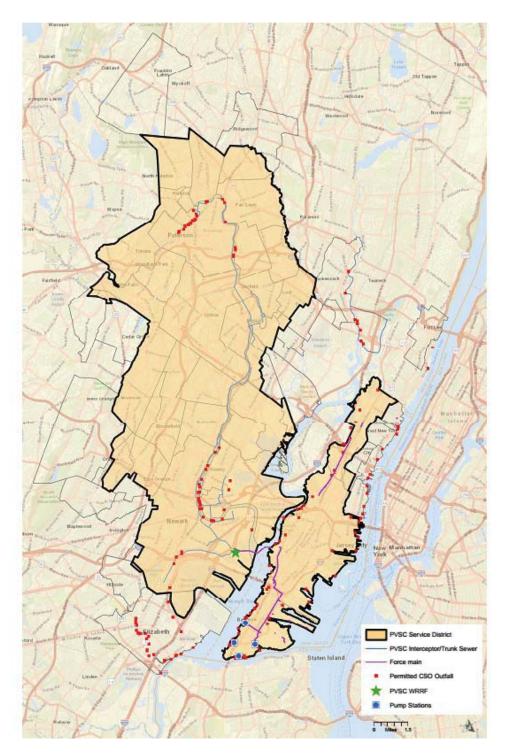


Figure 1-1: The PVSC Sewer District





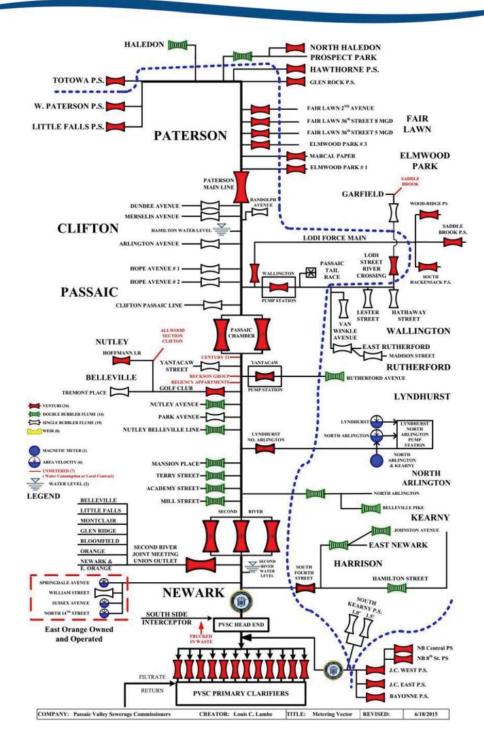


Figure 1-2: PVSC Service Area Schematic

Public Participation Report

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The NBMUA provides wastewater collection and treatment services at the NBMUA Wastewater Treatment Facility (NBMUA Woodcliff) for Guttenberg and a portion of North Bergen. NBMUA Woodcliff treats approximately three million gallons of wastewater per day, servicing roughly 477 acres (368 in North Bergen and 109 in Guttenberg). One combined sewer outfall is located in North Bergen Township and another is located in Guttenberg; both discharge along the Hudson River. NBMUA Woodcliff's service area and the combined sewer areas within the study area are illustrated in **Figure 1-3**. A general schematic of the NBMUA/Guttenberg system is included in **Figure 1-4**.

The NJPDES permits require PVSC, NBMUA Woodcliff, and any hydraulically connected CSO communities to cooperatively develop a CSO Long Term Control Plan (LTCP). PVSC has undertaken the development and implementation of the public participation program on behalf of the permittees to facilitate the process.





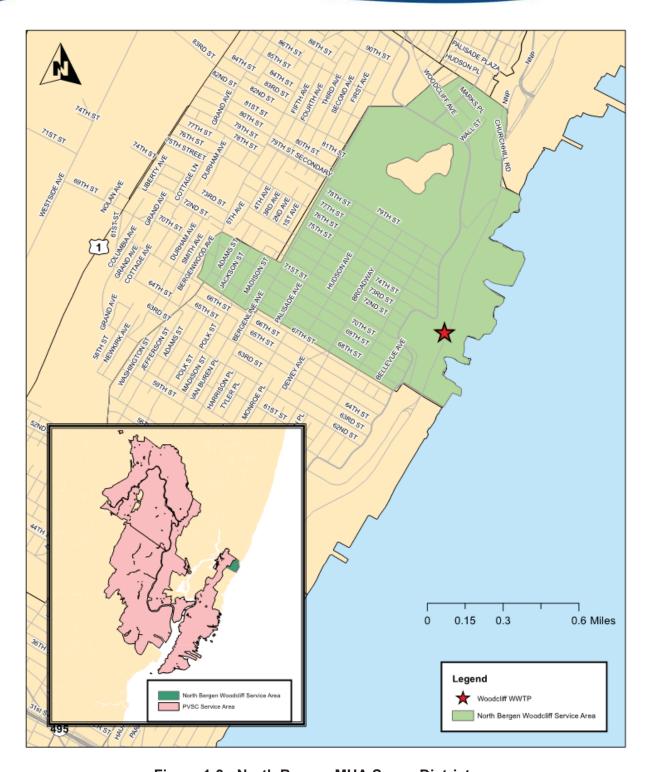


Figure 1-3: North Bergen MUA Sewer District





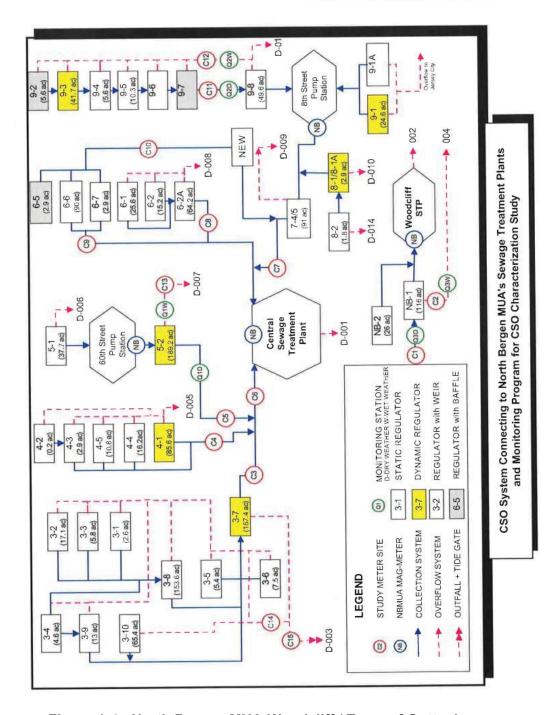


Figure 1-4: North Bergen MUA-Woodcliff / Town of Guttenberg Service Area Schematic



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Section 2 Public Involvement During Development of Draft LTCP

2.1 Public Involvement Overview

During the development of the LTCP, the permittees have conducted a variety of public outreach activities to implement a process that actively involves the affected public. This Section will outline the various methods of public outreach that were conducted and will also summarize areas of public comments, input and concern.

2.2 PVSC Sewerage District Supplemental CSO Team

The Supplemental CSO Team is an important part of the LTCP development process. The overall goal of the Supplemental CSO Team is to "work as an informal work group as a liaison between the general public and the decision makers for the permittee" as required by NJPDES Permit Part IV.G.2.C. The Supplemental CSO Team is comprised of invited members of the affected and interested public, such as rate payers, industrial users, persons who reside downstream from the CSOs, persons who use and enjoy the downstream waters, and others based on recommendations of the permittees to ensure adequate representation of the entire service area. Members are representative of the permitted communities or areas that are served by the wastewater treatment plant, and are not required to have extensive engineering backgrounds or special expertise or knowledge of CSOs.

In order for the Supplemental CSO Team to operate effectively and provide a high value to the LTCP development process, members of the team are required to commit to a multi-year planning process that includes participation and attendance at regular meetings. The following list of responsibilities and expectations was formulated and utilized in the selection of members of the Supplemental CSO Team:

- A long term (3-year) commitment to the LTCP development process;
- Regular attendance at quarterly meetings (at various venues throughout the permittee's service area) to assist in the sharing information and providing input in the planning process;
- Review of the proposed nature and extent of data and information to be collected during LTCP development;
- Provide input for consideration in the evaluation of CSO control alternatives; and
- Provide input for consideration in the selection of those CSO controls that will cost-effectively meet the Clean Water Act requirements.

Permittees provided input with respect to the type of entities and individuals who should be invited to participate as members of the Supplemental CSO Team with the end goal of establishing a team that was represented by various and diverse members of the affected and interested public. Current members of the Supplemental CSO Team and the organizations to which they belong are listed in **Table 2-1**:





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Table 2-1: Supplemental CSO Team (alphabetically by organization)

Name	Representing	
Matt Dorans	Bayonne Chamber of Commerce	
Nancy Kontos	Bunker Hill Special Improvement District	
Sheri Ferreira Greater Paterson Chamber of Commerce		
Captain Bill Sheehan	Hackensack Riverkeeper	
Janet Castro	Hudson Regional Health Commission, Township of North Bergen	
Drew Curtis	Ironbound Community Cooperation	
Alison Cucco	Jersey City Environmental Commission	
Currently Open	Jersey City Redevelopment Agency	
Meiyin Wu, Ph.D.	Montclair State University – Passaic River Institute	
Betty Jane Boros	New Jersey Business & Industrial Association (NJBIA)	
Robin Dougherty	y Newark Greater Conservancy/Newark Business Partnership	
Jorge Santos Newark Community Economic Development Corporation (I		
Nicole Miller	Newark DIG	
Thomas Stampe	North Bergen "Sustainable Jersey" Group	
Michele Langa	NY/NJ Baykeeper	
Harvey Morginstin	Passaic River Boat Club & Passaic River Superfund CAG	
Laurie Howard	Passaic River Coalition	
Ben Delisle	Passaic River Rowing Association	
Ruben Gomez	City of Paterson Economic Development	
Sandra Meola	Paterson SMART	
Christopher Obropta, Ph.D.	Rutgers University – Cooperative Extension Water Resources	
Patricia Hester-Fearon	Town of Kearny	
Christopher Vasquez	Town of Kearny	
Chris Pianese	Township of North Bergen	

Supplemental CSO Team meetings were held over the course of the LTCP development effort. Each member of the Supplemental CSO Team was given a unique username and password to allow them to access a SharePoint site that was set up to share and transfer documents for review and comment. Meeting agendas were posted to the SharePoint site prior to each Supplemental CSO Team Meeting, and presentations given at each meeting were posted to the site following the meeting, along with other relevant documents, such as the various NJPDES permits and LTCP interim deliverables/reports. Supplemental CSO Team Meetings were held on the dates and locations presented in **Table 2-2**:





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Table 2-2: Dates and Locations of Supplemental CSO Team Meetings

Meeting Number	Date	Location	City
1	October 5, 2016	Harrison Elks Lodge	Harrison
2	January 10, 2017	Bayonne Public Library	Bayonne
3	April 11, 2017	The Hamilton Club at Passaic County Community College	Paterson
4	July 11, 2017	Newark City Hall	Newark
5	October 16, 2017	PVSC WRRF	Newark
6	January 9, 2018	North Bergen Municipal Building	North Bergen
7	April 17, 2018	Jersey City Council Chambers	Jersey City

Meetings will continue to be held on a quarterly basis throughout the development of the LTCP.

At each Supplemental CSO Team meeting, presentations were prepared on various topics relevant to CSO Long Term Control Planning. Members of the Supplemental CSO Team were also given the opportunity to give presentations. For example, Paterson SMART gave a presentation that provided an overview of its organization and the initiatives it is implementing relative to green infrastructure. **Table 2-3** lists a summary of the topics presented at each meeting, as well as discussion items, concerns, and/or comments raised by the Supplemental CSO Team members and/or the public.

A photo of a Supplemental CSO Team meeting is provided as **Figure 2-1**.





Figure 2-1: A Typical Supplemental CSO Team Meeting





Table 2-3: Supplemental CSO Team Meetings

Public Meeting No.	No. of Attendees	Presentation Topics	Public Concerns / Comments
1	23 (11)	 Introduction to the Permittees Passaic Valley Sewerage Commission Service Area Supplemental CSO Team Roster Overview of Separate and Combined Sewer Systems Regulatory Background Program Progress to Date Branding of LTCP Program Next Steps Questions and Final Discussion 	 Supplemental CSO Team should set some ground rules for the group and establish what it expects from PVSC and the project team and create accountability on both sides Suggested the creation of a clear definition of the relationship between the Supplemental CSO Team, PVSC and the consultants For the alternatives analysis, Supplemental CSO Team input is expected to be weighed against a costbenefit analysis Suggested the creation of a guide for community engagement All meeting documents were requested to be sent to the Supplemental CSO Team in advance so that the team has time to review Team requested to be updated on the water quality model at future meetings
2	44 (13)	 Introduction Supplemental CSO Team Roster Overview of the SharePoint Site Recap of the October 5, 2016 Supplemental CSO Meeting History of Combined Sewers in the Passaic Valley Sewerage Commission District NJDEP – New Jersey CSO Permits Permit Responsibilities Highlights from CSO LTCPs from Elsewhere in the U.S. Status Update on the PVSC District LTCP Branding of LTCP Program 	 Discussion about why the flow monitoring lasted for a 12-week period and adequacy of rain events to calibrate the water quality model Concern about inspections of sewer interceptors Discussed the reporting requirements for permittees in terms of Nine Minimum Control compliance It was confirmed that population growth is a factor in the model and LTCP Sewer separation can be costly Concern that warning signs for CSOs aren't visible enough Discussion about Supplemental Team's input on deliverables Concern about how alternatives analysis will be discussed with the community at large Discussion about how payment for sewer usage and improvements is distributed within the PVSC communities Branding and logo was discussed



Public Meeting No.	No. of Attendees	Presentation Topics	Public Concerns / Comments
3	29 (12)	 Introduction and Recap Branding Update Project Schedule Green Infrastructure (GI) for CSO Control Supplemental CSO Team Member Presentations Paterson SMART 	 Discussion about the most effective methods of GI Concern that public outreach is the most important part of GI. Consulting with the public would hopefully help implementation issues GI can create jobs and build a relationship between the general public and the government Brainstorming best uses for porous pavement Discussion of GI costs and permit requirements
4	43 (13)	 Introduction and Recap NJ CSO Permit Overview (NJDEP) Water Quality Standards (NJDEP) Hydrologic and Hydraulic Models 	 Discussion about the flow monitoring that was completed for use in the model The model was discussed. Discussion regarding the details of PVSC's plant outfall The Team requested a tour of the PVSC WRRF
5	40 (14)	 PVSC Plant Tour Introduction and Recap Introduction to Alternative Analysis Stimulating Green Infrastructure on Private Property Bayonne CSO Treatment Demonstration Project 	 PVSC plant tour was provided Discussion about the pros and cons of the presumption and demonstration approaches Questions about how funding for GI is gathered and managed Discussion about end-of-pipe treatment technologies such as peracetic acid
6	34 (11)	 Introduction and Recap LTCP Deliverables due to NJDEP on July 1, 2018 Cost estimate of the LTCP Update on the activities performed by the Project Team Passaic Valley Regional Planning & Design Studio presentation by Rutgers University PVSC and Rutgers Green Infrastructure Municipal Outreach and Technical Assistance Program 	 SCSO Team requested time to review all deliverables and give input before they are submitted to NJDEP The cost opinions will be included in the LTCP submission. All eight of the CSO communities will be included in the cost opinions Discussion about the different types of public outreach materials, whether they provide more general or region-specific information and in which languages they are available





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Public Meeting No.	No. of Attendees	Presentation Topics	Public Concerns / Comments
7	48 (13)	 Introduction and Recap Water Quality Monitoring Program Overview Overview of Reports to be submitted to NJDEP on July 1, 2018 Timeline for Submittals and Supplemental CSO Team Input NJDEP Guidance Document for Evaluating Green Infrastructure Social Media for Clean Waterways, Healthy Neighborhoods 	 Discussion of contaminant and contamination source identification Discussion of sampling methodology including weather patterns, specific contaminants, sampling locations, and saline and fresh water body sampling Discussion regarding the model calibration, the contaminants being modeled, and the accuracy of the model SCSO team recommended adding Arabic translations to the public outreach materials Discussion about the effect the GI pilot studies will have on stormwater volume

^{&#}x27;Number in parentheses indicates number of members of the Supplemental CSO Team present

As requested by the Supplemental CSO Team, PVSC arranged for a tour of the PVSC WRRF on October 16, 2017. The Supplemental CSO Team members were briefed on the WRRF process and how wet weather impacts the operations, and were given a tour of the facility.

In addition to the Supplemental CSO Team meetings, the following Draft Reports were provided to the members of the Supplemental CSO Team for review and comment:

- Service Area System Characterization Report;
- Public Participation Report;
- Identification of Sensitive Areas Report; and
- Compliance Monitoring Program Report.

2.3 Newark Supplemental CSO Team

Newark assembled its own local Supplemental CSO Team as a platform to discuss the LTCP and Newark's efforts under the NJPDES permit. The Newark Supplemental CSO Team meetings were held over the course of the LTCP development effort to work in conjunction with the primary Supplemental CSO Team. Meetings were held on the dates and locations presented in **Table 2-4**:

Table 2-4: Newark Supplemental CSO Team Meeting Dates and Locations

Meeting Number	Date	Location
1	April 25, 2017	Newark City Hall
2	October 24, 2017	Newark City Hall
3	March 27, 2018	Newark City Hall





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At each Newark Supplemental CSO Team meeting, presentations were prepared on various topics related to CSO Long Term Control Planning. **Table 2-5** contains a summary of the topics presented at each meeting, as well as any discussion items, concerns, or comments raised by the public.

Table 2-5: Newark Supplemental CSO Team Meetings

Public Meeting No.	No. of Attendees	Presentation Topics	Public Concerns / Comments
1	22	 Introduction to the Newark Supplemental CSO Team CSOs within Newark Department of Water and Sewer Background The CSO Notification System Current Project Underway in Newark 	 The possibility of Green Infrastructure being incorporated into Public School capital projects Stakeholder involvement in stormwater detention and stakeholder partnership in stormwater management Consideration of Climate Change Development and redevelopment planning will take population growth and history into considerations Runoff from commercial to residential properties.
2	16	 Personnel Changes CSO Netting Facilities Reports and Monitoring Activity Book CSO Brochure Adopt a Basin and Rain Barrel Program 	 The Activity Book mascot can work with the Office of Sustainability's catch basin adoption program Engage schools to adopt catch basins around school grounds Schools with Green Infrastructure should be prioritized since they are already engaged in stormwater management Green Infrastructure opportunities in communities with repaving ordinances Engaging residents to sign a petition to support community tax dollars to be invested in Green Infrastructure. The team recommended a more detailed map of the CSO/MS4 areas
3	19	 South Street Project Presentation CSO Brochure General Discussion 	 The group stated that curb bump outs as part of green infrastructure will have the added benefit of pedestrian safety. A PDF copy of the coloring book should be shared with community groups. Information and tools for private owners is important to share with residents in order to engage them.

It is anticipated that meetings will continue to be held on a regular basis throughout the development of the LTCP.





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2.4 Bayonne Supplemental CSO Team

Like Newark, Bayonne assembled a local Supplemental CSO Team to discuss the LTCP and Bayonne's efforts under the NJPDES permit. The Bayonne Supplemental CSO Team meetings were held over the course of the LTCP development effort to work in conjunction with the primary Supplemental CSO Team. Meetings were held on the dates and locations presented in **Table 2-6**:

Table 2-6: Bayonne Supplemental CSO Team Meeting Dates and Locations

Meeting Number	Date	Location
1	June 29, 2017	Bayonne City Hall
2	October 2, 2017	Bayonne City Hall
3	December 13, 2017	Bridge Art Gallery
4	January 24, 2018	Bridge Art Gallery
5	February 27, 2018	Buttero
6	March 14, 2018	Bridge Art Gallery
7	April 11, 2018	Bridge Art Gallery
8	May 9, 2018	Bridge Art Gallery

At each Bayonne Supplemental CSO Team meeting, presentations were prepared on various related to CSO Long Term Control Planning. **Table 2-7** contains a summary of the topics presented at each meeting, as well as any discussion items, concerns, or comments raised by the public.

Table 2-7: Bayonne Supplemental CSO Team Meetings

Public Meeting No.	No. of Attendees	Presentation Topics	Public Concerns / Comments
1	7	 Bayonne CSO Permit New Jersey Future and Jersey Water Works NJCSO Permit Requirements 	 Incentivize developers to incorporate green infrastructure in projects Connect with national and international efforts related to sustainability Develop community outreach opportunities like the Bayonne Arts Festival Identify other stakeholders and invite them to the Bayonne SCSO Team meetings
2	6	Bayonne CSO Program Long Term Control Plan	Discussed the Mission of the Bayonne SCSO Team





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Public Meeting No.	No. of Attendees	Presentation Topics	Public Concerns / Comments
			Discussed possible Bayonne SCSO Team goals
3	8	Discussion about stormwater challenges and solutionsBranding exercise	
4	11	 Bayonne SCSO Team Update Rutgers Cooperative Extension Water Resources Program Presentation Discussed upcoming workshops Logo and Branding Discussion 	 Discussion about the Bayonne Supplemental Team Community Workshops and the Green Infrastructure Workshops for Developers Bayonne SCSO Team has named the group "Bayonne Water Guardians"
5	N/A	 Presentation on the intent of the PVSC LTCP Overall goals of Bayonne LTCP Update on Bayonne Water Guardians progress 	 Major elements of an LTCP CSO control approaches Cost/performance considerations Green Infrastructure technologies
6	9	CSO Notification SystemRain Barrel WorkshopLong Term Control Plan	 A model will predict wet weather CSOs Tunnels and green infrastructure are used to reduce CSOs
7	8	Bayonne Water Guardian Logo Update and PublicityRain Barrel Workshop Update	 Brainstorming speakers to address the attendees of the Rain Barrel Workshop Brainstorming public outreach avenues
8	4	 Community Outreach including Bayonne Councilmen Long Term Control Plan Develop Community Goals 	 Creating flyers and reaching out to councilmen Discussion of event opportunities for community outreach Information about PVSC and the LTCP

It is anticipated that meetings will continue to be held on a regular basis throughout the development of the LTCP.

2.5 NJ CSO Group Meetings

The NJ CSO Group was originally formed to work cooperatively to fulfill the requirements of the last CSO General Permit. The group was recently expanded to include more permittees that discharge to the tidally connected waterbodies in the NY/NJ Harbor Estuary. The NJ CSO Group is made up of the CSO permittees shown below alongside their NJPDES Permit numbers in **Table 2-8.**





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Table 2-8: NJ CSO Group

NJ CSO Group Member	NJPDES Permit Number
City of Bayonne	NJ0109240
Borough of East Newark	NJ0117846
City of Elizabeth	NJ0108782
Borough of Fort Lee	NJ0034517
Town of Guttenberg	NJ0108715
City of Hackensack	NJ0108766
Town of Harrison	NJ0108871
Jersey City MUA	NJ0108723
Town of Kearny	NJ0111244
City of Newark	NJ0108758
North Bergen MUA - Central	NJ0108898
North Bergen MUA - Woodcliff	NJ0029084
City of Paterson	NJ0108880
City of Perth Amboy	NJ0156132
Village of Ridgefield Park	NJ0109118
Passaic Valley Sewerage Commission (PVSC)	NJ0021016
Middlesex County Utilities Authority (MCUA)	NJ0020141
Bergen County Utilities Authority (BCUA)	NJ0020028
Joint Meeting of Essex & Union Counties (JMEUC)	NJ0024741
North Hudson Sewerage Authority (NHSA) – Adams Street WRRF	NJ0026085
North Hudson Sewerage Authority (NHSA) – River Road WRRF	NJ0025321

Each of the entities listed above in **Table 2-8** owns and/or operates various components of a combined sewer system. The geographic locations of the NJ CSO Group Members are depicted on **Figure 2-2**.

Meetings with the NJ CSO Group were are, in general, on a quarterly basis. In addition to attendance by representatives of each NJ CSO Group member, members of the public or regulatory agencies have been invited to make presentations or give input, including the New Jersey Department of Environmental Protection and the Natural Resources Defense Council. NJ CSO Group Meetings were held on the dates listed in **Table 2-9**.





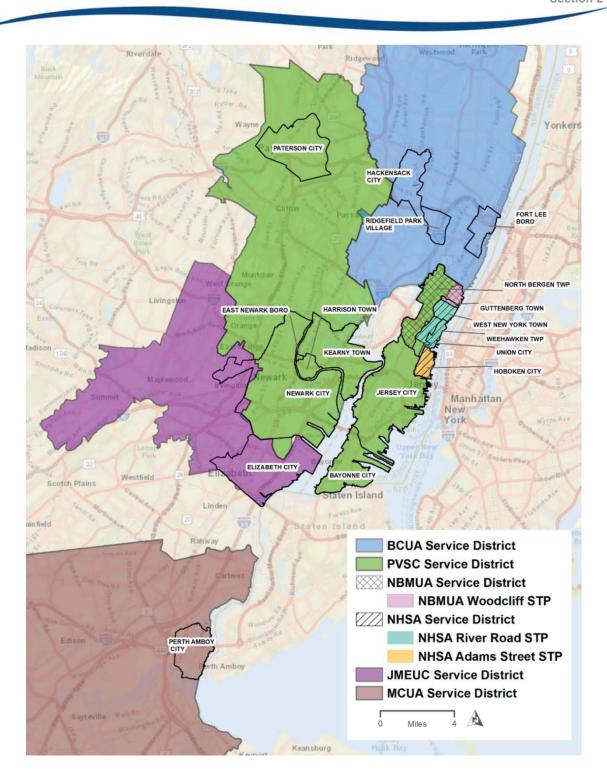


Figure 2-2: Participating NJ CSO Group Members and Associated Central Sewage Treatment Facilities



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Table 2-9: NJ CSO Group Meeting Dates

NJ CSO Group Meeting Dates		
August 7, 2013	October 19, 2015	
February 20, 2014	April 6, 2017	
March 7, 2014	October 16, 2017	
July 1, 2014	February 2, 2017	
October 8, 2014	February 20, 2018	
January 15, 2015	April 5, 2018	
June 29, 2015	May 3, 2018	

Various topics were discussed as they relate to the development of the LTCP, to keep current with CSO issues, and to assist members with CSO compliance matters. The following is a summary of some of the topics discussed at each meeting:

- Ambient Monitoring Program
- Ambient Modeling Program
- Sensitive Areas
- Supplemental CSO Team
- Financial Capability Analysis

- Alternative Evaluation
- CSO Notification Website
- Water Quality Monitoring Program
- Receiving Water Quality Modeling
- Typical Hydrologic Year

2.6 PVSC CSO Sewer District and NBMUA-Woodcliff Permittees Meetings

NJPDES permittees located within PVSC's Sewerage District and NBMUA-Woodcliff's Service Area hold near monthly meeting to assist in collaboration, CSO compliance, and sharing of public information and/or input. The permittees that participated in these meetings are shown alongside their NJPDES Permit numbers in **Table 2-10**:

Table 2-10: PVSC CSO Sewer District and NBMUA-Woodcliff Permittees

PVSC CSO Sewer District Permittee	NJPDES Permit Number
PVSC	NJ0021016
City of Newark	NJ0108758
Borough of East Newark	NJ0117846
Town of Harrison	NJ0108871
Town of Kearny	NJ0111244
City of Paterson	NJ0108880





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PVSC CSO Sewer District Permittee	NJPDES Permit Number
City of Bayonne	NJ0109240
Jersey City MUA	NJ0108723
North Bergen MUA - Central	NJ0108898
North Bergen MUA - Woodcliff	NJ0029084
Town of Guttenberg	NJ0108715

Members of the public or regulatory agencies, such as the New Jersey Department of Environmental Protection and Rutgers University, have been invited to make presentations or participate in the meetings. Permittee Meetings were held on the dates listed in **Table 2-11**:

Table 2-11: PVSC CSO Sewerage District and NBMUA-Woodcliff Permittees Meeting Dates

CSO PVSC Sewer District Permittees Meeting Dates			
September 24, 2013	May 5, 2016	January 5, 2017	
January 6, 2014	January 5, 2016	April 6, 2017	
December 10, 2014	June 2, 2016	August 3, 2017	
April 2, 2015	July 7, 2016	November 2, 2017	
April 16, 2015	August 11, 2016	December 7, 2017	
May 21, 2015	July 7, 2016	January 9, 2018	
May 26, 2015	August 11, 2016	February 1, 2018	
June 4, 2015	September 1, 2016	March 1, 2018	
July 2, 2015	October 6, 2016	November 2, 2017	
August 5, 2015	November 3, 2016	December 7, 2017	
September 24, 2015	December 1, 2016	February 1, 2018	
October 15, 2015	January 5, 2017	March 1, 2018	
November 19, 2015	May 4, 2017	April 5, 2018	
February 4, 2016	July 6, 2017	June 7, 2018	
April 7, 2016	December 1, 2016		





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Various topics were discussed as they relate to the development of the LTCP, to keep current with CSO issues, and to assist members with CSO compliance matters. The following is a summary of some of the topics discussed at each meeting:

- Status of NJPDES Permit
- Status of Compliance with Monitoring Work Plan
- Municipalities Engagement of CSO Consulting Engineers
- System Characterization Program
- Baseline Compliance Sampling Program
- Status Update on LTCP
- CSO Public Education
- Status of Agreements between PVSC and PVSC Municipalities
- Baseline Conditions
- Supplemental CSO Team

- Passaic River Superfund
- Revision of Rules, Ordinances, and/or Sewer Use Agreements
- Status of Landside Modeling Program QAPPs and Implementation
- Typical Hydrologic Year
- Green Infrastructure Pilot Projects
- Sewer Maps
- CSO Notification Website
- Quarterly Reports and Notification of CSO Construction Related Activities
- Financial Capability Assessments

Meetings with individual permittees were also held on an as needed basis. The permittees that participated in these meetings, as well as the dates the meetings were held, are shown below in **Table 2-12**:

Table 2-12: Meetings held with Individual Permittees

Attendees	Date
PVSC and Newark	March 14, 2014
PVSC and JCMUA	August 5, 2015
PVSC and BCUA	August 27, 2015
PVSC and Newark	October 9, 2015
PVSC and Newark	October 19, 2015
PVSC, JMEUC, MCUA and BCUA	December 15, 2015
PVSC and JCMUA	December 21, 2015
PVSC, Newark and Elizabeth	February 4, 2016





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2.7 Meetings with Existing Groups

Employing yet another method of collecting information from and disseminating information to the public regarding the development of the LTCP, the LTCP Project Team attended regular meetings with existing local groups such as the Bayonne Water Guardians, Harrison TIDE, Newark DIG, NY/NJ HEP Water Quality Work Group, Kearny AWAKE, Paterson SMART, and Jersey City START. The LTCP and development of long-term CSO controls were addressed at such groups' meetings. Stakeholders were encouraged to ask questions and provide input during and after these meetings.

In addition to meeting with existing groups, PVSC has participated in various events by presenting the public with information at a table or booth. Events PVSC has participated in include the North Bergen Green and Health Family Festival, Day without Water in Jersey City, and the Newark Recycling Summit.

2.8 Ad Hoc Stakeholder Meetings

Stakeholders and community members may at any time request meetings with PVSC and/or the CSO permittees to discuss aspects of the LTCP. At their request, individual meetings were held with various groups, such as the Iron Bound Community Corporation and Jersey Water Works. The purpose of these meetings were to provide another source of public outreach in order to keep the public informed about the overall development of the LTCP, receive input relative to items pertaining to the LTCP, and to actively include the affected public in the development of long-term CSO controls.

2.9 Collaboration with Rutgers University

2.9.1 Landscape Architecture Environmental Planning Studio

PVSC and the Rutgers University Landscape Architecture Program (LAP) worked together to develop a curriculum for the 2017 fall semester that challenged Rutgers students to design projects focused on developing an open space system along the Passaic River to reduce stormwater runoff via green infrastructure. Refer to Appendix A for a copy of the syllabus for the Design Studio. The course was required for all students majoring in Landscape Architecture. The students worked on the project for the entire semester, and PVSC met with the professors and students on the following dates as shown in **Table 2-13**:

Table 2-13: Meetings with Rutgers University Professors and/or Students

Date	Subject
April 12, 2017	Overview of the LTCP
August 24, 2017	Discuss the Fall Semester Syllabus
September 5, 2017	Green Infrastructure for CSO Control
October 31, 2017	Students' Mid-Term Presentations
December 18, 2017	Students' Final Presentations

During the students' final presentations, PVSC and members of the LTCP Project Team reviewed each concept design and provided feedback regarding how the project could benefit CSO controls and/or





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improvements that could be made to provide additional benefits. Presentation of the concept designs were also made to the Supplemental CSO Team, and the concept designs were made available for review and consideration by each of the CSO permittees.

2.9.2 Green Infrastructure Municipal Outreach and Technical Assistance Program

For the past five years, PVSC has collaborated with Rutgers University as part of a Green Infrastructure Municipal Outreach and Technical Assistance Program (Program) to benefit all municipalities located within the PVSC Sewerage District. The purpose of the Program is to increase community outreach and education regarding the benefits of green infrastructure, as well as to provide the following:

- 1. Community-based technical assistance;
- 2. Outreach and education;
- 3. Green infrastructure demonstration projects; and
- 4. Municipal green infrastructure assessments.

The following is a summary of the accomplishments regarding the technical assistance portion of the program:

- 1. Completed 40 green infrastructure feasibility studies which are included in Appendix B;
- 2. Met with municipal officials in Bayonne, Belleville, Bloomfield, Cedar Grove, Clifton, East Newark, East Orange, East Rutherford, Elmwood Park, Fair Lawn, Garfield, Glen Ridge, Glen Rock, Haledon, Harrison, Hawthorne, Jersey City, Kearny, Little Falls, Lodi, Lyndhurst, Montclair, Newark, North Arlington, North Bergen, North Caldwell, North Haledon, Nutley, Orange, Passaic, Paterson, Prospect Park, Rutherford, Saddle Brook, Totowa, Union City, Wallington, West Orange and Woodland Park;
- 3. Secured Memorandums of Understanding with 13 municipalities including, Bayonne, East Newark, East Orange, Garfield, Harrison, Jersey City, Little Falls, Montclair, Newark, North Bergen, Paterson, Saddle Brook, and West Orange; and
- 4. Updated studies for Little Falls, Montclair, Saddle Brook, and West Orange in order to reflect a new planning process.

In addition to the above and as part of the outreach and education efforts, the following has been completed:

- 1. Delivered the following workshops/training programs with a total of 52 participants, as follows:
 - a. Green Infrastructure Training Program held in January 2014 and June 2017;
 - b. Stormwater Management in Your Schoolyard Teacher In-Service Workshop held in June 2015;





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- c. Assessing Stormwater Infrastructure and Asking the Right Questions about Stormwater Workshop held in March 2016; and
- d. Complying with New Jersey Stormwater Regulations Workshop held in May 2016 and September 2017.
- Continued to host and update the Green Infrastructure Municipal Outreach and Technical Assistance Program. See the following links for more information on this program (www.nj.gov/pvsc/news/photos/20150801a.html), (http://water.rutgers.edu/PVSC/PVSC.html);
- 3. Conducted a presentation entitled "Green Infrastructure 101" for the Bayonne Supplemental CSO Team;
- 4. PVSC hosted Municipal Day in which Rutgers presented information to the mayors and municipal officials in attendance. Mayors from the municipalities within PVSC's Sewer District were invited to attend; and
- 5. Updated the Education and Outreach Program presentation to include green infrastructure for stormwater, installation of demonstration projects in schools.

2.10 Rain Barrel Program

2.10.1 PVSC Rain Barrel Program

To complement the work with Rutgers, PVSC implemented a recycling program in which it repurposes used pickle barrels from factories within its Sewerage District into rain barrels. To date, PVSC has recycled 87 pickle barrels for use as rain barrels, and has worked with the Watershed Management Area 4 Watershed Ambassador to offer rain barrel workshops to educate the public on the use of green infrastructure and the benefits of recycling rain water for household use of non-potable water. Photos of a typical Pickle Barrel Recycling Workshop are included as **Figure 2-3** and **Figure 2-4**. See **Table 2-14** and **Table 2-15** below for the number of pickle barrels recycled summary of PVSC's recycling efforts and the dates and locations of the rain barrel workshops.







Figure 2-3: Typical Pickle Barrel Recycling Workshop





Figure 2-4: Typical Pickle Barrel Recycling Workshop



Table 2-14: Pickle Barrels Obtained for Conversion to Rain Barrels

Date	Company Donated	Quantity
10/04/2013	Paterson Pickle Co. 1	
10/04/2013	Patriot Pickle Co.	1
04/21/2014	Paterson Pickle Co. 4	
07/17/2015	Patriot Pickle Co. 6	
07/29/2015	Patriot Pickle Co.	6
01/08/2016	Patriot Pickle Co.	8
01/21/2016	Patriot Pickle Co. 8	
02/05/2016	Patriot Pickle Co.	8
02/19/2016	Patriot Pickle Co.	5
03/11/2016	Patriot Pickle Co.	13
04/22/2016	Patriot Pickle Co.	10
06/10/2016	Patriot Pickle Co.	10
02/09/2018	Paterson Pickle Co.	30
04/25/2018	Paterson Pickle Co.	20
05/24/2018	Paterson Pickle Co.	26

Table 2-15: Rain Barrel Workshops

Date	Workshop Location and Partner	
07/30/2015	Perth Amboy - Rutgers	
05/26/2016	Clifton - Watershed Ambassador	
06/07/2016	Clifton - Watershed Ambassador	
07/12/2016	Paterson - City Green Garden	
05/09/2017	Clifton - Watershed Ambassador	
05/18/2017	Clifton - Watershed Ambassador	
09/13/2017	Museum – Paterson	
10/28/2018	Library Rain Garden - Harrison TIDE	
04/13/2018	Harrison	
05/23/2018	Bayonne	

Additional demonstrations are planned for the future. Each municipality that is included in this program has agreed to implement two green activities. Rutgers University and PVSC will continue to coordinate in order to advance this program further.

2.10.2 JCMUA Rain Barrel Program

JCMUA has a rain barrel program and currently outlines their program on their website. This initiative has existed for 5 years and provides information to the public regarding the use and maintenance of the Rain Barrels. The program aims to educate the community about why rain barrels are important and how they can help homeowners save money on their water bill, reduce or prevent basement flooding, and





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lessen flooding and pollution in local waterways. A typical set up of a rain barrel from the JCMUA rain barrel program is shown in **Figure 2-5**.



Figure 2-5: Typical JCMUA Rain Barrel

JCMUA provided participants with a complete guide on proper rain barrel installation along with helpful tips for maintenance. Residents are able to complete an online application and subsequently pick up the rain barrels at the JCMUA for a cost of \$25/barrel. To date, JCMUA has sold 128 rain barrels through this initiative in addition to a handful of giveaways during Earth Day.

2.11 Green Infrastructure Pilot Projects

PVSC is proposing to finance the construction of up to three right-of-way rain gardens within the service area. These rain garden would be used to demonstrate green infrastructure features for possible use in development of the LTCP for CSO management. These right-of-way rain gardens will be located in highly-visible public locations within the sidewalk. Construction of the demonstration projects will allow the CSO permittees within PVSC's treatment district the opportunity to observe the planning and implementation process for these green infrastructure features. During precipitation events, stormwater runoff generated in the drainage area would flow into the rain garden through a curb cut. The water enters a slightly depressed vegetated bed, where it can infiltrate into the soil and be taken up by the plants. Water in excess of the rain garden's capacity will exit through a downstream curb cut, and continue down Winfield Avenue towards the next catch basin as it does during current conditions. The volume of water captured by the rain garden will reduce the burden on the combined sewer system, and consequently help to reduce the discharge of combined sewer overflows. Conceptual drawings have been created for the pilot projects in Newark and Jersey City, both sets are included in Appendix C





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2.12 Model Evaluation Group (MEG) Meetings

A Model Evaluation Group (MEG) was formed in order to provide technical review and guidance regarding the development of the hydrologic and hydraulic model and the pathogen water quality monitoring and model. The MEG was comprised of the following individuals, who have extensive experience in the areas of model development and implementation:

- Dr. Alan Blumberg, Stevens Institute of Technology;
- Dr. Steve Chapra, Tufts University; and
- Dr. Wayne Huber, Oregon State University.

A photo of a typical MEG meeting is provided as **Figure 2-6**.

Model workshop meetings were held on the following dates in order to keep all parties informed of issues associated with the development and use of each of the models, as well as to receive any feedback and input regarding the monitoring and modeling work:

- February 5, 2016;
- March 17, 2017; and
- September 15, 2017.

In addition to the MEG members, the following parties were regularly in attendance at meetings:

- New Jersey Department of Environmental Protection; and
- PVSC and its consultants.

2.13 Municipal Council Meetings

Presentations are planned for municipal councils at regularly scheduled public meetings in the municipalities of the PVSC CSO Sewer District and the NBMUA-Woodcliff Service Area. Additionally, meetings with local government officials, such as business administrators and finance Directors, were also held. The purposes of these meetings are to inform the municipalities and the public of the LTCP process and the regulatory requirements, as well as to solicit input and feedback regarding the development of the LTCP.





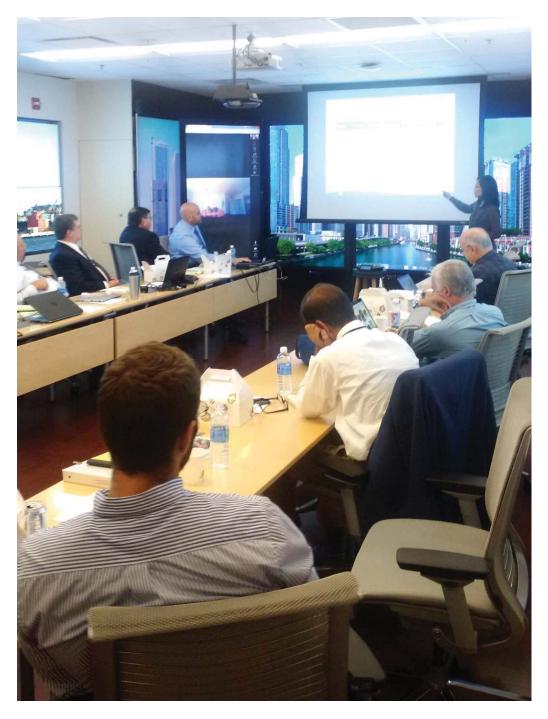


Figure 2-6: A Typical MEG Meeting





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2.14 JCMUA Partnerships and Initiatives

2.14.1 Earth Day Fair

For the past three years, JCMUA has hosted an annual event called the Earth Day Fair, in which they aim to educate the public on a variety of environmental and community topics. This past year, the Fair took place on May 18 and included several events including environmental exhibits and other information dissemination regarding CSOs. In partnership with Great Jersey City Clean Up and Keep Jersey City Beautiful, the Fair sponsored volunteers to plant planters for housing projects and JCMUA staff also participated in a similar activity at Liberty Park. At the Fair, JCMUA staff distributed brochures which provided general information on JCMUA. At future events, brochures will be distributed to the public which provide information on CSOs and green infrastructure in English, Spanish, Portuguese and Arabic.

2.14.2 Adopt a Catch Basin Program

JCMA has offers an Adopt a Catch Basin program in partnership with the Department of Public Works. Residents can volunteer to adopt their very own catch basin and the City provides illustrations on how catch basins operate and educate the community on the importance of ensuring proper functionality. Further, instructions on how to care for the basin using techniques such as sweeping and disposing of trash, clearing the drain after heavy precipitation events and others. The initiative offers a creative approach to the volunteer effort in that it allows for the residents to paint and decorate their own catch basin to make it unique and promote the cause. Once painted, residents are encouraged to post pictures of their adopted catch basins to social media with a hashtag that further markets the initiative. Several adopted catch basins on display with completed artwork are shown in

Figure 2-7. A map of the adopted basins, information about CSOs, and an online application to adopt a basin are available on the JCMUA website Adopt a Catch Basin page at https://www.jcmua.com/adopt-acatch-basin/.



Figure 2-7: Painted Catch Basins from the Adopt a Catch Basin Program





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2.14.3 Resilient Design Handbook

JCMUA has also partnered with the Jersey City Office of Innovation and the Jersey City Office of Sustainability to create a Resilient Design Handbook. This handbook provides information to residents and business owners on how to make the city greener and more resilient. The link to this handbook is available on jcmakeitgreen.org and will be added to the JCMUA website in the near future. Further, this information is already promoted through the various social media outlets on a regular basis.

2.15 City of Newark Partnerships and Initiatives

City of Newark Mayor Ras Baraka has convened groups of experts to help co-develop a 'look back/look forward' piece about the City's accomplishments and priorities. This document will look back at the accomplishments of Mayor Baraka's administration and lay out a blueprint of what we should try to accomplish during the next term. One subcommittee will focus on Environmental Sustainability Goal Development. With the Mayor's commitment to Newark infrastructure and the environment, the citywide partnerships and initiatives highlighted below are expected to continue to grow.

2.15.1 Sustainable Stormwater Stewards

The City of Newark Department of Water & Sewer Utilities has partnered with the Office of Sustainability to create the Sustainable Stormwater Stewards. The Sustainable Stormwater Stewards recruits citizens of Newark to engage and implement sustainability projects in their neighborhoods. The Sustainable Stormwater Stewards website is found at https://www.newarknj.gov/card/sustainability-stewards. The Sustainable Stormwater Stewards includes a free Rain Barrel Giveaway and an Adopt a Catch Basin program.

Newark has committed to not only providing the rain barrels free of charge but also assisting with delivery and installation of each rain barrel. Installations are completed by the Office of Sustainability's AmeriCorps Vistas, Water and Sewer Department employees, and/or trained volunteers. As of June 1, 2018, 85 residents have requested rain barrels; 20 of which have been installed. More installations will be completed throughout 2018.

The Adopt a Catch Basin program asks that volunteers, in the form of residents, school groups, faith groups, and community organizations, commit to clearing debris out of their adopted catch basin on a regular recurring day and time; with an extra emphasis on dates before and after every precipitation event. Volunteers are provided a Catch Basin Care Kit available on a first-come first-served basis while supplies last. The Care Kits include: a reflective safety vest, a one-year supply of refuse bags (25 trash bags, 25 recycling bags, and 10 leaf litter bags), a one-year supply of disposable gloves (25 pairs of gloves), instructions handout, and a volunteer maintenance log sheet. Volunteers who commit to the program and regularly report their activities to the Office of Sustainability will also be eligible to receive prizes for their participation. The City is also offering to coordinate painting of catch basins by local artists for interested volunteers. As of June 1, 2018, 82 catch basins have been adopted, nine of which have been painted. A public service announcement regarding the Adopt a Catch Basin program is available on YouTube: https://www.youtube.com/watch?v=ZvuoE0uQivo. A flyer for the Sustainable Stormwater Stewards and photos of typical paintings and installations have been included in Appendix D.





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2.15.2 Sustainability Action Plan

The Newark Sustainability Action Plan: Commitments & Priority Actions "2018-2020 Plan for Building a Cleaner, Greener, Healthier, More Engaged & More Prepared Newark for All" details Newark's shared commitments to implement policies, programs, and build partnerships to achieve our goals. The Plan was informed through a series of events, held from July – September 2017, dubbed the Summer Sustainability Series as well as a survey to map out priority concepts. The preparation and rollout of the Plan involve information sharing with the public related to stormwater management and combined sewer overflow initiatives. The Plan is expected to be adopted fall of 2018.

Upcoming public engagement efforts will include broad-based, widespread dissemination of custom-made materials that are designed to elevate the importance of sustainability commitments and build public support for activities. A preview of the Plan is available on the Office of Sustainability's website https://www.newarknj.gov/departments/sustainability and in Appendix E.

One chapter in the Plan focuses on "A Green Newark" with a commitment to maximize the use of green infrastructure strategies for stormwater management. "In An Engaged Newark" commitments include working with partners to make it easier for businesses and residents to access savings for energy, waste and water use as well as leveraging activities to expand opportunities for residents and businesses in the "green" economy. The Department of Water & Sewer will be integral to implementing priority actions.

2.15.3 Green Team

The Newark Green Team is a multi-sector coalition of local stakeholders actively working to advance policies and programs related to urban sustainability, environmental health, community greening, and quality of life and green economic opportunities for Newark residents. The Office of Sustainability is serving as an incubator to help spur the establishment of the Newark Green Team while it develops its governance structure and secures funding to operate independently. The top four focus areas of the group are: serving as advisors to the Office of Sustainability, establishing themselves as an information and resource hub with regards to sustainability efforts city-wide (collaborative fundraising, materials development, etc.), campaign/project work, and seeking certification through Sustainable Jersey.

2.15.4 Meetings and Events

City of Newark representatives have attended and/or hosted various meetings and events to share information with the interested public. Information regarding the meetings and events held in the City of Newark is listed in **Table 2-16.**





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Table 2-16: Meetings and events held in the City of Newark

Date	Location	Hosted by	Topics
Held Monthly on the 4 th Tuesday from 11am- 12:30pm	Newark City Hall	Newark DIG	Green Infrastructure to Improve Resiliency to Flooding and Quality of Life for Newark Residents
July 27, 2017	Down Bottom	The City of Newark's	An East Ward Community
	Farms, 375 Ferry	Summer Sustainability	Conversation About
	Street	Series	Environmental Justice
July 29, 2017	Vincent Lombardi	The City of Newark's	A North Ward Community
	Community Center,	Summer Sustainability	Conversation About
	201 Bloomfield Ave.	Series	Quality of Life
August 5, 2017	Nan Newark Tech	The City of Newark's	A South Ward Community
	World, Hawthorne	Summer Sustainability	Conversation About
	Ave	Series	Environmental Health
September 30, 2017	Bethany Baptist	The City of Newark's	A Central Ward
	Church, 275 W	Summer Sustainability	Celebration of Community
	Market St.	Series	Green Spaces
April 14, 2018	Rotunda in City Hall	Newark Resiliency Action Plan Coalition (City of Newark, Clean Water Action, Ironbound Community Corporation, & New Jersey Environmental Justice Alliance)	Newark Resilience Action Plan Summit
June 13, 2018	Paul Robenson Center, 350 Martin Luther King Jr. Blvd.	The City of Newark	Recycling Summit

The City of Newark will continue to host and attend events related to the environment. Typical conversations include discussions surrounding our infrastructure and combined sewer overflows; advertising the rain barrel giveaway and adopt a catch basin program; obtaining feedback on flooding issues or community engagement activities; and, green infrastructure discussions. A photo from the April 14, 2018 Resilience Action Summit depicting residents marking up a map where they see flooding issues and also where there are opportunities for green infrastructure has been included in Appendix F.

2.16 Public Outreach to Separate Sewer System (non-CSO) Communities

Several of the previously discussed public outreach activities were open and accessible to both the CSO communities and the non-CSO (separate sewer system) communities, such as attendance at the Supplemental CSO Team Meetings and the social media platforms. In addition to those activities, PVSC contacted the separate sewer system communities directly in order to request meetings and have discussions about ways, as well as the separate sewer system communities' willingness, to reduce infiltration and inflow into the separate sewer systems in order to provide additional capacity in the





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combined sewer systems. **Table 2-17** includes a correspondence log between PVSC and the separate sewer system communities, which highlights these outreach efforts. Appendix G includes various letters written to the separate sewer communities.

Table 2-17: Municipal Correspondence Log

Date	Activity	
November 6, 2015	PVSC sent letters to all 48 municipalities in the PVSC Sewer District.	
March 3, 2016	PVSC sent second letter to municipalities that did not respond to the November 6, 2015 letter.	
June 20, 2016	PVSC met with North Bergen MUA and Township of North Bergen. PVSC met with East Newark.	
June 23, 2016	PVSC met with Woodland Park	
June 28, 2016	PVSC met with North Haledon	
August 3, 2016	PVSC met with JCMUA	
August 25, 2016	PSVC met with JCMUA	
September 16, 2016	PVSC sent follow-up letters to North Bergen, East Newark, Woodland Park, and North Haledon.	
September 28, 2016	Response letter received from Woodland Park; Woodland Park declined to renegotiate.	
September 29, 2016	Response letter received from North Haledon, North Haledon declined to renegotiate.	
October 26, 2016	PVSC met with Clifton.	
November 2, 2016	PVSC met with Bloomfield, Garfield and Elmwood Park.	
November 9, 2016	PVSC met with Little Falls.	
November 17, 2016	PVSC sent follow-up letters to Clifton, Bloomfield, Garfield, Elmwood Park and Little Falls.	
December 9, 2016	Response letter received from Clifton; Clifton declined to renegotiate	
January 6, 2017	Response letter received from Bloomfield; Bloomfield is aware of I/I requirement, but did not mention a change of agreement.	

In addition to the above activities, PVSC's collaboration with Rutgers University through the Green Infrastructure Municipal Outreach and Technical Assistance Program (Program) benefits all municipalities—CSO and non-CSO communities—located within PVSC Sewerage District. The purpose of the Program is discussed in more detail in Section 2.9.2 of this Report.





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Section 3 Public Information

A concerted effort was made to make the public aware of the CSO LTCP development process and to actively involve and educate it about CSO issues. Public outreach was facilitated by PVSC, the websites of the PVSC Sewerage District municipalities and the NBMUA, the NJ CSO Group's CSO Notification System, public meetings, informational handouts, and branded CSO informational website, Facebook and Twitter pages.

3.1 Branding of CSO LTCP Program – Clean Waterways Healthy Neighborhoods

PVSC, the PVSC Sewerage District municipalities, and the Town of Guttenberg developed a brand and logo associated with the LTCP Program to build public awareness of the LTCP as it relates to the communities the CSO improvements will impact. The brand and logo were developed with input from each of the CSO permittees within PVSC's Sewerage District and the NBMUA-Woodcliff Service Area, as well as input received from members of the Supplemental CSO Team. The brand and logo are shown below in **Figure 3-1**:



Figure 3-1: The Clean Waterways Healthy Neighborhoods Logo

3.2 Website

The PVSC webpage (www.nj.gov/pvsc) provides numerous informational postings related to the CSO LTCP, such as information regarding CSO construction-related activities for each of the permittees within the PVSC Sewerage District. There is also a link to the NJ CSO Group's CSO Notification System. Notices for public meetings, plant tour request forms, as well as the history of and descriptions of PVSC's infrastructure are posted on the website. PVSC also advertises volunteering opportunities and educational outreach programs for kids K-12 on their website. Figure 3-2 below is a flyer that gives information about the Educational Outreach Program.

The NBMUA webpage (www.nbmua.com) provides a number of postings of information for the public related to the NBMUA-Woodcliff and Town of Guttenberg LTCP. The website includes information on the CSO construction-related activities, a link to the NJ CSO Group's CSO Notification System, as well as notices for public meetings.







Passaic Valley Sewerage Commission's 2015-16 Educational Outreach Program

Attention Grades K through 12!

Our award-winning program teaches students about the Environment, the Passaic River & what they can do to keep it clean!

Let us visit your school with our 60-minute **free** multimedia presentation, adaptable to grades K-2, 3-5, 6-8 and 9-12. We are equipped to do individual classroom or assembly presentations.





All of PVSC's presentations and lessons have been designed to be consistent with the New Jersey Core Content Curriculum Standards and cover multiple subjects

"The Passaic Valley Sewerage Commission's Educational Outreach Program has heightened the environmental awareness of our entire school system." Dr. Patricia McGeehan, Ed. D. Superintendent of Bayonne Public Schools

Our revised format brings students outdoors to clean up the Passaic River Basin and help monitor the health of the Passaic River.

TO RESERVE YOUR DATE CONTACT:
Passaic Valley Sewerage Commission
c/o Donna Piscopo
Phone: (973) 466-2908
Fax: (973) 344-7114

Email: education@pvsc.nj.gov
Check us out on the web! http://www.nj.gov/pvsc/education/

Figure 3-2: PVSC Education Outreach Program Flyer

The JCMUA webpage (https://www.jcmua.com/)will also be updated to include a link to the NJ CSO Group's CSO Notification System.

In addition to PVSC's, NBMUA's, and JCMUA's websites, a CSO specific website was created (www.njcleanwaterways.com) that provides information for the general public on combined sewers and the LTCP. The Clean Waterways Healthy Neighborhoods website is presented as **Figure 3-3**.





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HOME / LONG TERM CONTROL PLAN / PROJECT SCHEDULE / PUBLIC NOTIFICATION / CONTACT US

CLEAN WATERWAYS, HEALTHY NEIGHBORHOODS

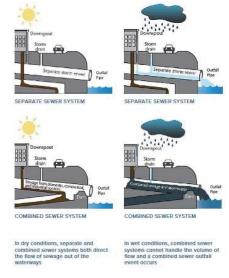
History of Combined Sewers

During the 1800s, large storm sewers were installed to eliminate flooding during storms. The invention of indoor plumbing created a need for sewage disposal. Since storm sewers were already in the streets and led to river disposals, these were used as a combined sewer system for sewage and flood water.

Increased population growth and industrialization overcame the river's capacity for cleaning itself. Malodorous conditions led to collection and treatment of sewage.

There are two principle types of sewer systems in the US: combined sewer systems (CSS) and sanitary sewer systems (SSS).

Both types collect household wastewater and industrial sewage, carrying it to a local facility for treatment. Separate Sewar Systems (SSS) are specially built to handle like sewage alone. In communities with these systems, separate systems exist, one handling storm water and surface runoff—typically discharging it directly into a nearby water body without treatment—and one handling household wastewater and industrial sowage. In Combined Sewer Systems (CSS), these functions are handled simultaneously. Storm water and runoff are collected in the same pipes as waste from homes, businesses, and industrial sites, all of which is carried to a local treatment facility. Under most circumstances, this arrangement works fine. However, during periods of peak storm water runoff, such as after a major storm, treatment facilities may be unable to handle the total volume of wastewater in the system. When this occurs, it triggers a combined sewer overflow (CSO), During a CSO, storm water and untreated sewage are diverted from the treatment facility and discharged directly into the environment.



Images courlesy of the Mystic River Watershed Association



COMBINED SEWER SYSTEMS ARE OFTEN OUTDATED AND IN NEE



Why are Combined Sewers a problem?

Despite the health risks associated with releasing untreated sewage into the environment, CSSs were a major improvement when first introduced in the 19th century, in many places, they replaced uncovered cesspool ditches that ran along roadways and were flushed out naturally with rainwater. These open-air sewers provided the public with no protection from the dangers of human and industrial waste. CSSs took the sewage underground, greatly improving the health and sanitation of our streets. When communities were small, the harmful effects of CSOs went largely undetected. Yet, as cities grew, so did the impact of untreated wastewater on our waterways. This wastewater contains many contaminants, including microbial pathogens, suspended solids, and chemicals. Currently, over 40 million people in the United States live in communities with CSSs, which discharge more than 850 billion gallons of untreated wastewater annually. Most of these communities are in the Northeast and Great Lakes regions. And while many larger cities, such as Philadelphia and New York, struggle with CSO pollution, most problems happen in cities with fewer than 10,000 people.

- CSOs discharge untreated wastewater during wet weather.
- CSO discharges contain disease causing organisms in waterbodies, measured as enterococcus, fecal coliform, and E.Coli.
- Swimmers, boaters and waders and other recreational users of waterbodies are often affected by these
 intestinal illnesses.

Figure 3-3: The Clean Waterways Healthy Neighborhoods Website





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3.3 NJ CSO Group's CSO Notification System

The NJ CSO Group has created a CSO Notification System (<u>njcso.hdrgateway.com/</u>). This system provides up-to-date information regarding where CSO discharges may or may not be occurring. **Figure 3-4** includes a screenshot of the webpage of the CSO Notification System.

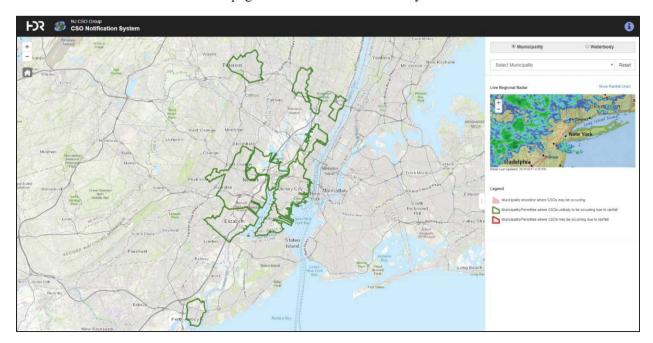


Figure 3-4: The CSO Notification System Map

3.4 Fact Sheets

Fact Sheets were developed as part of the public outreach and education efforts. Three separate Fact Sheets were prepared on the following topics:

- What is Green Infrastructure?
- Controlling CSO's with Sewer Separation; and
- Downspout Disconnection.

These Fact Sheets were distributed to the public at various meetings and public outreach events. The Fact Sheets can be found in Appendix H and are available in various languages, including English, Spanish, and Portuguese.

3.5 LTCP Brochure

A LTCP brochure was developed in order to provide additional information to the public relative to the CSO LTCP. The brochure provides the following information:

- Overview and general information on combined sewer systems (CSS) and CSOs;
- Clean Waterways, Healthy Neighborhoods branding;





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- Overview of NJPDES Permit and requirements to develop LTCP;
- Listing and location of each CSO Permittee participating in Public Outreach efforts;
- LTCP information:
- Supplemental CSO Team information; and
- Information regarding public notification signs at CSO outfalls.

Copies of the LTCP Brochure are distributed to the public at various meetings and other public outreach events. The LTCP Brochure can be found in Appendix I and are available in various languages, including English, Spanish, and Portuguese.

3.6 City of Newark CSO Brochure

The Newark Supplemental CSO Team created a CSO Brochure to provide the public with information about state regulations, CSSs, and the mitigation of CSOs. A copy of the Newark CSO Brochure is attached in Appendix J. The CSO Brochure helps readers determine if they live in a neighborhood with a combined or separated sewer system. The brochure also gives readers tips on how they can get involved in order to assist with reductions in stormwater runoff and reductions in CSOs.

3.7 Social Media Plan

An LTCP Facebook and Twitter social media plan was developed to enhance electronic outreach about the LTCP. The PVSC Facebook page provides relevant information about their services and ways that communities can learn more about getting involved with the agency. The page is open for comments and questions, which are answered by PVSC personnel. This allows the agency to showcase transparency and signals a real commitment to public input. The PVSC Facebook page is accessible via the PVSC website (www.nj.gov/pvsc) and a screenshot can be seen below in **Figure 3-5**.

Additionally, a *Clean Waterways*, *Healthy Neighborhoods* LTCP Facebook page was also developed. As with the PVSC Facebook page, the LTCP page is accessible via the *Clean Waterways*, *Healthy Neighborhoods* website (www.njcleanwaterways.com). The LTCP Facebook page is branded with the *Clean Waterways*, *Healthy Neighborhoods* logo. It is updated on a regular basis to keep it fresh and informative, and serves to promote relevant LTCP information, including upcoming events and meetings, project visuals, Supplemental CSO Team and relevant municipal information, and other related news and articles. As with the PVSC Facebook page, the LTCP Facebook page is open to public feedback and comment.

Twitter is also a useful outreach tool to inform the public, especially via mobile phone. As with the *Clean Waterways*, *Healthy Neighborhoods* Facebook page, the Twitter page is branded with the *Clean Waterways*, *Healthy Neighborhoods* logo and is updated on a regular basis to keep it fresh and informative. The Twitter feed serves to promote relevant LTCP information, including upcoming events and meetings, project visuals, Supplemental CSO Team and relevant municipal information, and other related news and articles. The LTCP Twitter page is also open to public feedback and comment.





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Figure 3-5: The PVSC Facebook Page

Twitter is also a useful outreach tool to inform the public, especially via mobile phone. As with the *Clean Waterways*, *Healthy Neighborhoods* Facebook page, the Twitter page is branded with the *Clean Waterways*, *Healthy Neighborhoods* logo and is updated on a regular basis to keep it fresh and informative. The Twitter feed serves to promote relevant LTCP information, including upcoming events and meetings, project visuals, Supplemental CSO Team and relevant municipal information, and other related news and articles. The LTCP Twitter page is also open to public feedback and comment.

The *Clean Waterways*, *Healthy Neighborhoods* Facebook and Twitter page screenshots are shown below in **Figure 3-6** and **Figure 3-7**.

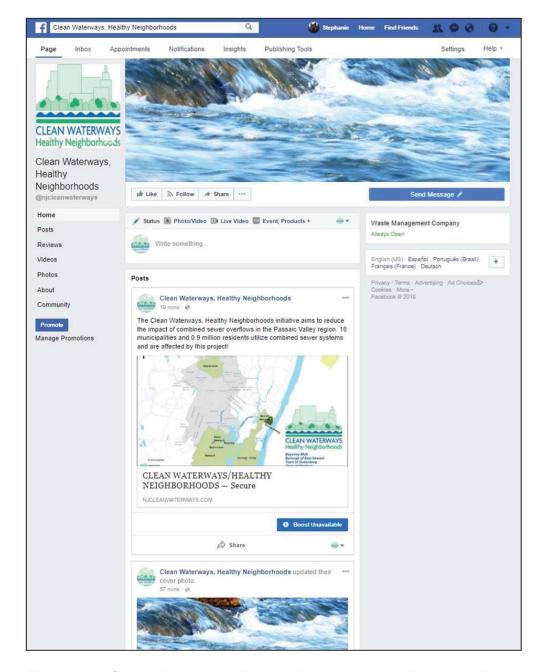


Figure 3-6: Clean Waterways, Healthy Neighborhoods Facebook Page





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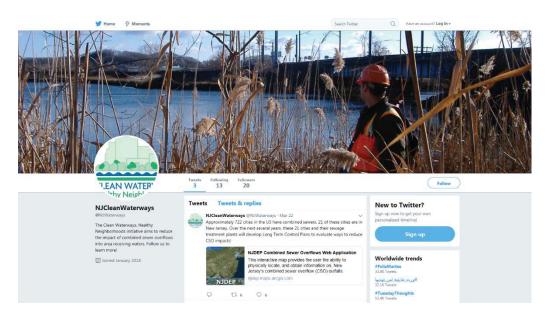


Figure 3-7: Clean Waterways Health Neighborhoods Twitter Page

3.8 Identification Signs for CSO Outfalls

Permittees installed signs at every CSO outfall for the purposes of warning the public of possible combined sewage overflows during and following wet weather. The signage includes a NJDEP Hotline telephone number for reporting of dry weather overflows and the reporting of foul odors or unusual discoloration. The signage also discloses the permittee's NJPDES Permit Number, as well as the Discharge Serial Number. All signage includes the NJDEP website address (www.state.nj.us/dep/dwq/cso.htm), and depicts symbols prohibiting swimming, fishing, and kayaking. An example of typical CSO signage is shown in **Figure 3-8** below.







Figure 3-8: Typical CSO Signage Located at Each CSO Outfall

Section 4

Section 4 Public Comments on Draft LTCP

4.1 Opportunities for Public Comment on Draft LTCP

Many forums and opportunities have been and will continue to be made available for public comment. An overview of the major opportunities is summarized below:

- Supplemental CSO Team Meetings Quarterly Supplemental CSO Team meetings were held and will continue to be held throughout the preparation of the LTCP.
- NJ CSO Group Meetings The NJ CSO Group met and will continue to meet periodically throughout the preparation of the LTCP.
- PVSC CSO Sewer District and NBMUA-Woodcliff Sewer Area Permittee Meetings –
 Meetings with the PVSC CSO permittees, as well as the NBMUA-Woodcliff and Town of
 Guttenberg permittees were held and will continue to be held to facilitate discussion during the
 preparation of the LTCP.
- Meetings with Existing Groups PVSC met and will continue to meet with various local organizations such as Newark DIG, Paterson SMART and Jersey City START to discuss various elements of the LTCP.
- Ad Hoc Stakeholder Meetings PVSC, as well as the NBMUA and Town of Guttenberg, met with Stakeholders upon their request to discuss aspects of the LTCP throughout the drafting process. As similar opportunities arise, PVSC, as well as the NBMUA and Town of Guttenberg, will continue to meet with stakeholders upon request.
- Municipal Council Meetings Presentations to Municipal Councils at public meetings will be made in various CSO Municipalities in order to present and discuss aspects of the LTCP throughout the drafting process.
- Letters, Faxes and E-mail Members of the public have opportunities to submit letters, faxes and e-mail comments throughout the process.
- The *Clean Waterways*, *Healthy Neighborhoods* website and social media pages are also open for public feedback and comment.

4.2 Number and Types of Comments

It is anticipated that a number of comments will be received on the Draft LTCP with various types of comments. The number and types of comments will be tracked and documented.

4.3 Approach to Addressing Comments

In the event that a large number of comments on the draft LTCP are received, the comments will be grouped by type and subject matter and addressed in a jointly in a commentary type response. The goal of this approach is to produce a commentary that is both readable and comprehensive. Some potential groups that may be utilized for organization of the comments are as follows:

- Nine Minimum Controls;
- Alternatives Evaluation;
- Separation;





- Low Impact Development Source Control, Pollution Prevention;
- PVSC Wastewater Treatment Plant;
- CSO Location;
- Flooding;
- Implementability;
- Tunneling;
- Regulatory Compliance;
- Public Participation;
- Financial Capability;
- Schedule;
- Water Quality Standards Requirements; and
- Miscellaneous Comments.





Long Term Control Plan

Public Participation Report

Section 5

Section 5 Future Public Participation

PVSC, the NBMUA, and each of the CSO permittees are committed to active public participation and consultation during the planning, design and construction of CSO control projects. Future public participation will be designed to educate the public about the status of the program; progress in implementing the program; to inform neighborhood residents before, during, and after construction; and to report on progress in reducing CSOs and improving water quality as a result of the program.

Future public participation activities will include Supplemental CSO Team meetings with the PVSC/NBMUA Districts, Newark and Bayonne Supplemental CSO teams, NJ CSO Group meetings, PVSC and NBMUA CSO Sewer District permittees meetings, MEG meetings, municipal council meetings, continued coordination with NYCDEP, other meetings with existing groups, and any ad hoc meetings. Also, collaboration with Rutgers University will continue along with the Newark Sustainability Action Plan.

In addition to future public participation activities, information will continue to be provided to the public via PVSC's, NBMUA's, and other municipalities' web pages, the Clean Waterways, Healthy Neighborhoods' Facebook and Twitter pages, the NJ CSO Group's CSO Notification System, Newark Sustainable Stormwater Stewards activities, public information fact sheets and brochures, and other social media outreach efforts.

It is anticipated that future public participation outreach efforts will continue to be documented and summarized in the final LTCP.



