

Supplemental CSO Team – Session 16
PVSC Service Area / North Bergen Service Area
September 2, 2020– 5:00 PM

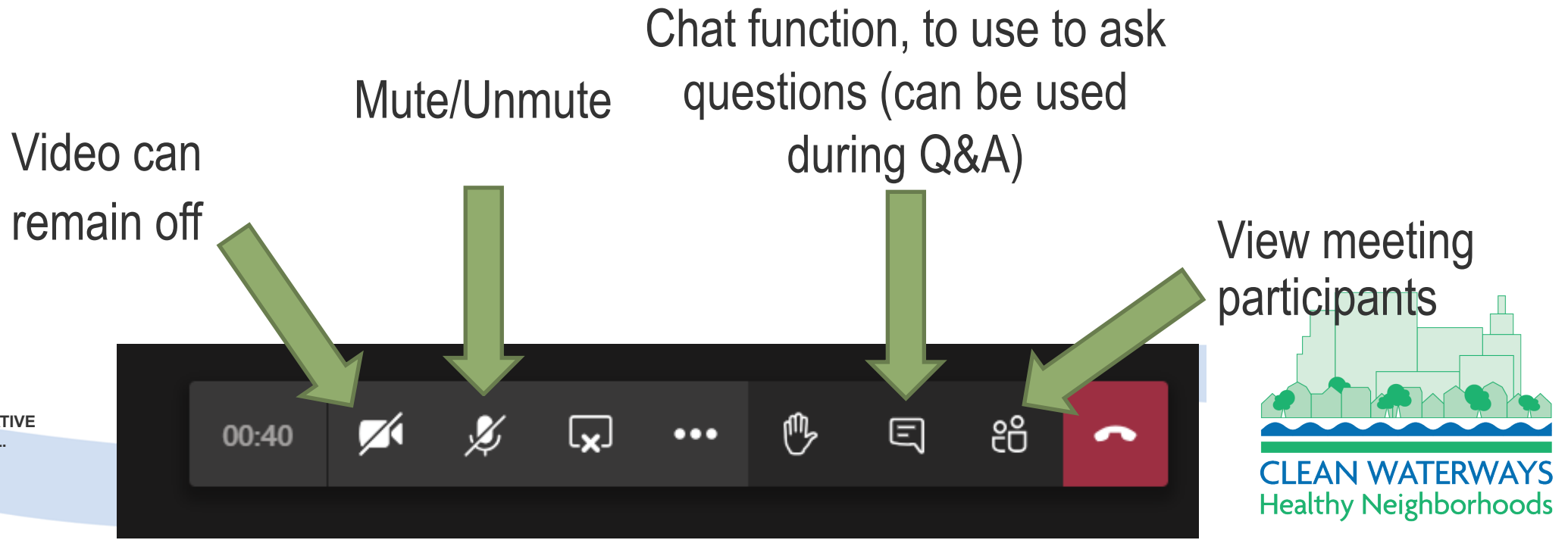
Virtual Meeting



CLEAN WATERWAYS
Healthy Neighborhoods

Teams Interface Overview

- If you are having trouble with audio or your speakers, you can also call into the meeting:
 - Call (844) 566-5330 , Conference ID: 272 625 827#
- Note the arrows and locations of these icons are approximate. Depending on the device and screen you have, these icons may shift their location, but will remain consistent.



Teams Interface Overview

Locations of these controls may be different depending on the device and screen you are using

Not all questions/comments will be addressed during the meeting, but they will be recorded

Type your question/comment here

Meeting chat

Type a new message

Submit here

Agenda

- Introduction and Recap
- Project Status and Schedule
- Municipal and Regional Alternatives (Recap)
- Performance Summary of Alternatives (Recap)
- Cost Summary
- Next steps
- Questions and Discussion
- Adjourn
- Breakout Sessions

Introduction and Recap

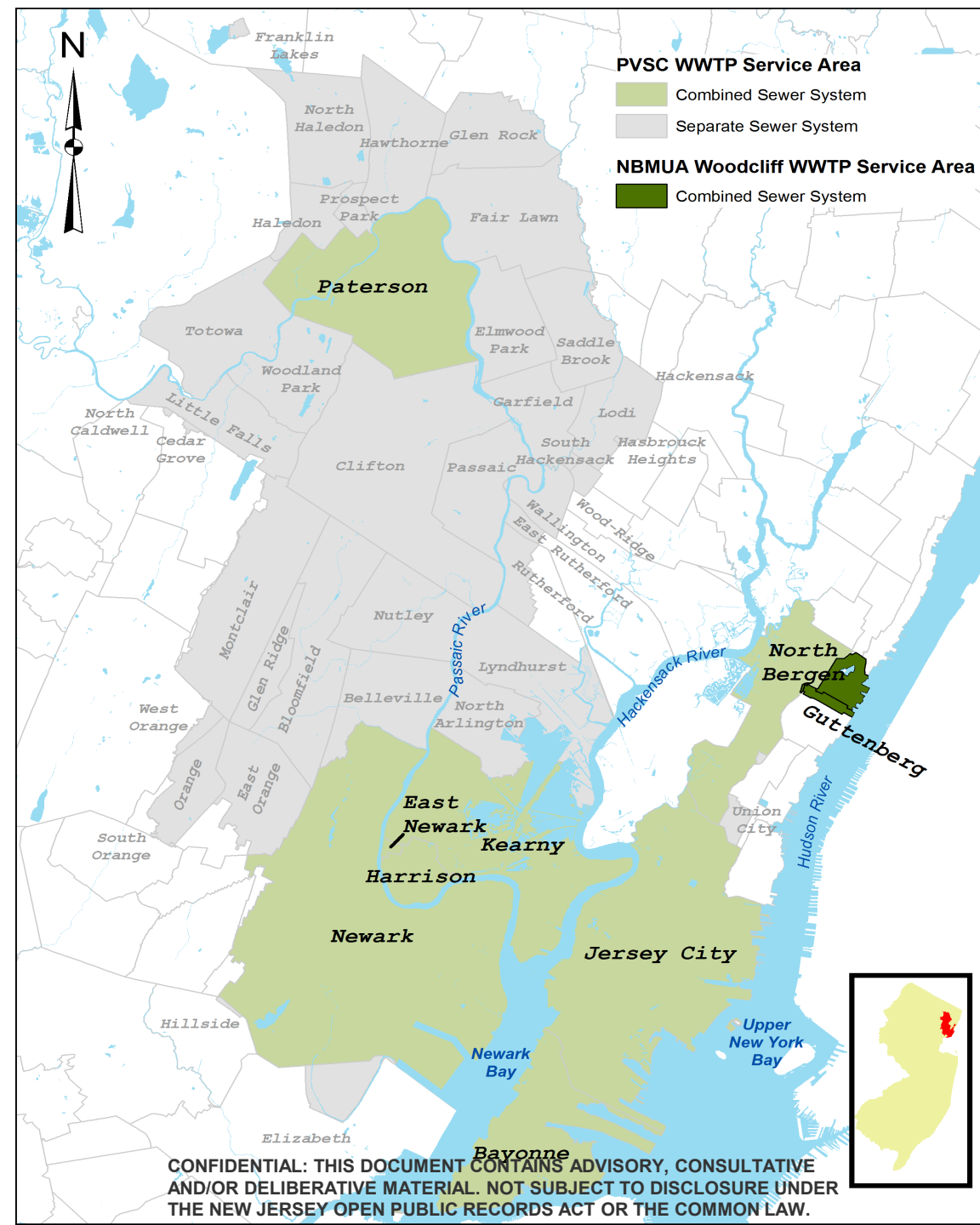
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CLEAN WATERWAYS

Healthy Neighborhoods

- City of Paterson
- City of Newark
- Town of Guttenberg
- Town of Harrison
- Town of Kearny
- Borough of East Newark
- North Bergen MUA
- City of Bayonne
- Jersey City MUA
- Passaic Valley Sewerage Commission (PVSC)



Supplemental CSO Team Members

Member	Organization	Member	Organization
Dan Smereda	Bayonne Water Guardians	Sue Levine	Paterson Smart
Lisha Smereda	Bayonne Water Guardians	Ruben Gomez	City of Paterson Economic Development
Nicole Miller	Newark DIG	Sheri Ferreira	Greater Paterson Chamber of Commerce
Drew Curtis	Ironbound Community Corporation	Betty Jane Boros	New Jersey Business & Industrial Association
Robin Dougherty	Newark Greater Conservancy/Newark Business Partnership	Leslie Brunell	Stevens Institute of Technology
Jorge Santos	Newark Community Economic Development Corporation	Christopher C. Obropta, Ph.D	Rutgers University - Cooperative Extension Water Resources
Christopher Pianese	Township of North Bergen	Captain Bill Sheehan	Hackensack Riverkeeper
Janet Castro	Hudson Regional Health Commission Town of North Bergen	Harvey Morginstin	Passaic River Boat Club & Passaic River Superfund CAG
Thomas Stampe	North Bergen "Sustainable Jersey" group	Laurie Howard	Passaic River Coalition
Nancy Kontos	Bunker Hill Special Improvement District	Ben Delisle	Passaic River Rowing Association
Alison Cucco	Jersey City Environmental Commission	Patricia Hester-Fearon	Town of Kearny
Michele Langa	NY/NJ Baykeeper	Christopher Vasquez	Town of Kearny

59-Month Program Schedule and Milestones



Permit Effective Date

July 1st, 2015

We Are Here



2015

2016

2017

2018

2019

2020

January 1, 2016

- ✓ Coordinates of pumps, regulators, and outfalls
- ✓ System Characterization Work Plan
- ✓ Baseline Compliance Monitoring Program Work Plan

July 1, 2016

- ✓ Map of Combined and Separate Sewer Areas

 Permit Due Date

July 1, 2018

- ✓ System Characterization Report
- ✓ Public Participation Process Report
- ✓ Compliance Monitoring Program Report
- ✓ Consideration of Sensitive Areas Plan

July 1, 2019

- ✓ Development and Evaluation of Alternatives Report – Approved

~~June 1, 2020~~ October 1, 2020

Selection and Implementation of Alternatives Report in the Final LTCP

Project Status What has happened since the last SCSO Team Meeting?

- All permittees continued to refine costs for the short listed municipal and regional plans
- Meeting with Mayors of CSO Communities to develop a cost allocation approach for the Long-Term Control Plan



PVSC Municipal and Regional Alternatives (Recap)

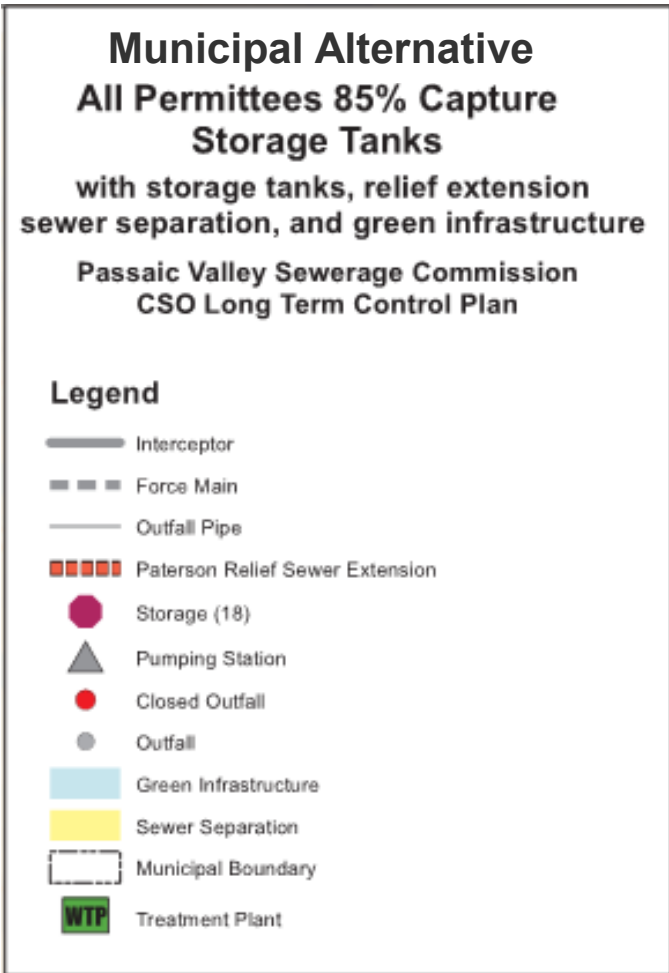


Evaluation of Alternatives: Municipal and Regional

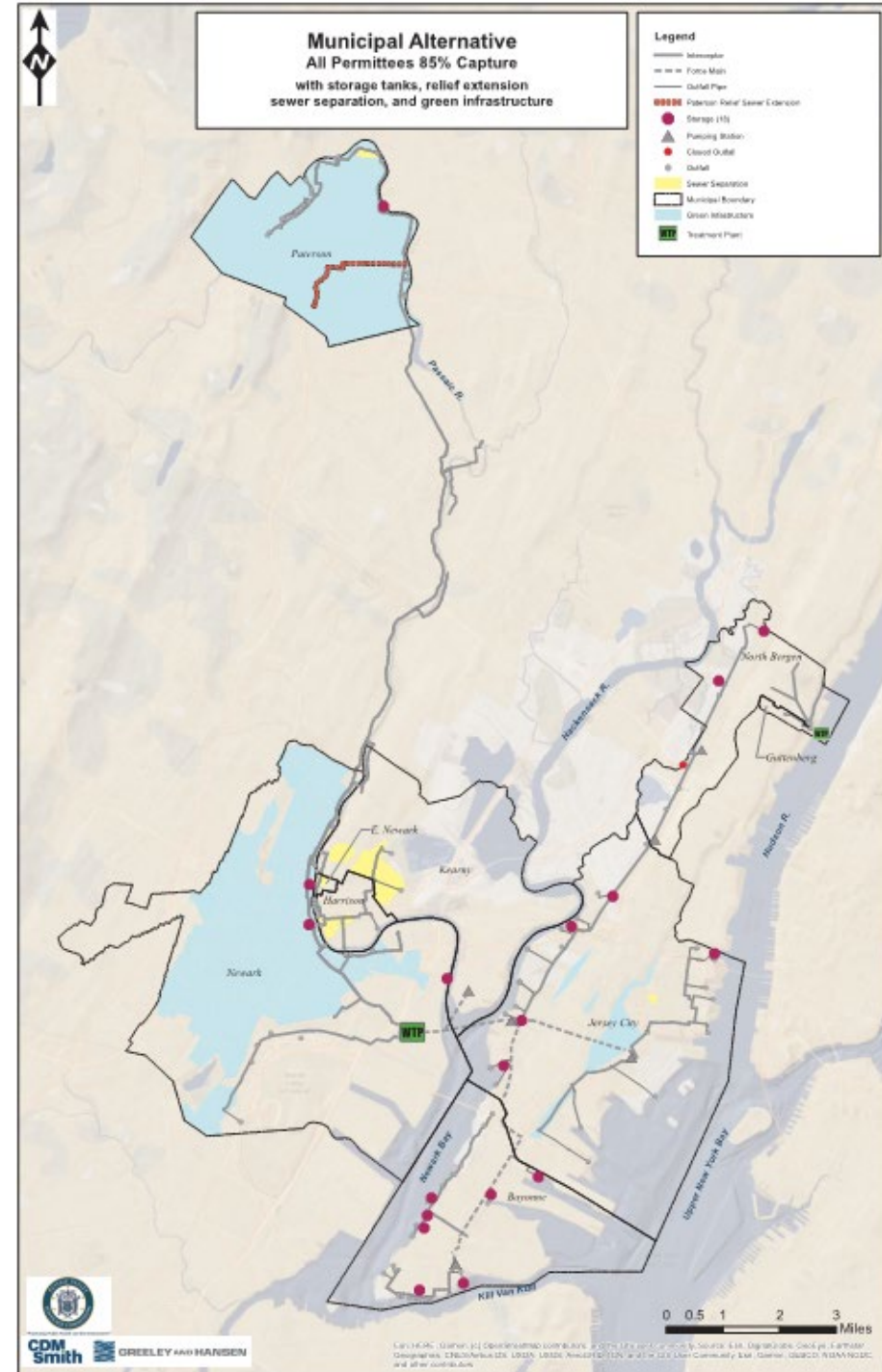
- Municipal permittees identified **local solutions** (to be implemented within municipal boundaries)
 - Green infrastructure, storage tanks, satellite treatment facilities, sewer separation
- Feasible and cost effective **regional** solutions were identified (to be implemented across 2 or more municipalities)
 - Storage facilities, new interceptors, PVSC Bypass
- The regional and municipal solutions were selected based on:
 - Performance (Reduction in the number of CSOs and/or CSO Volume)
 - Cost Effectiveness
 - Feasibility (Construction and Maintenance Requirements)



Summary of Selected Municipal Alternatives



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Summary of Selected Regional Alternatives

**Regional Alternative
Regional 85% Capture**
with storage tanks, relief interceptor,
sewer separation, and green infrastructure

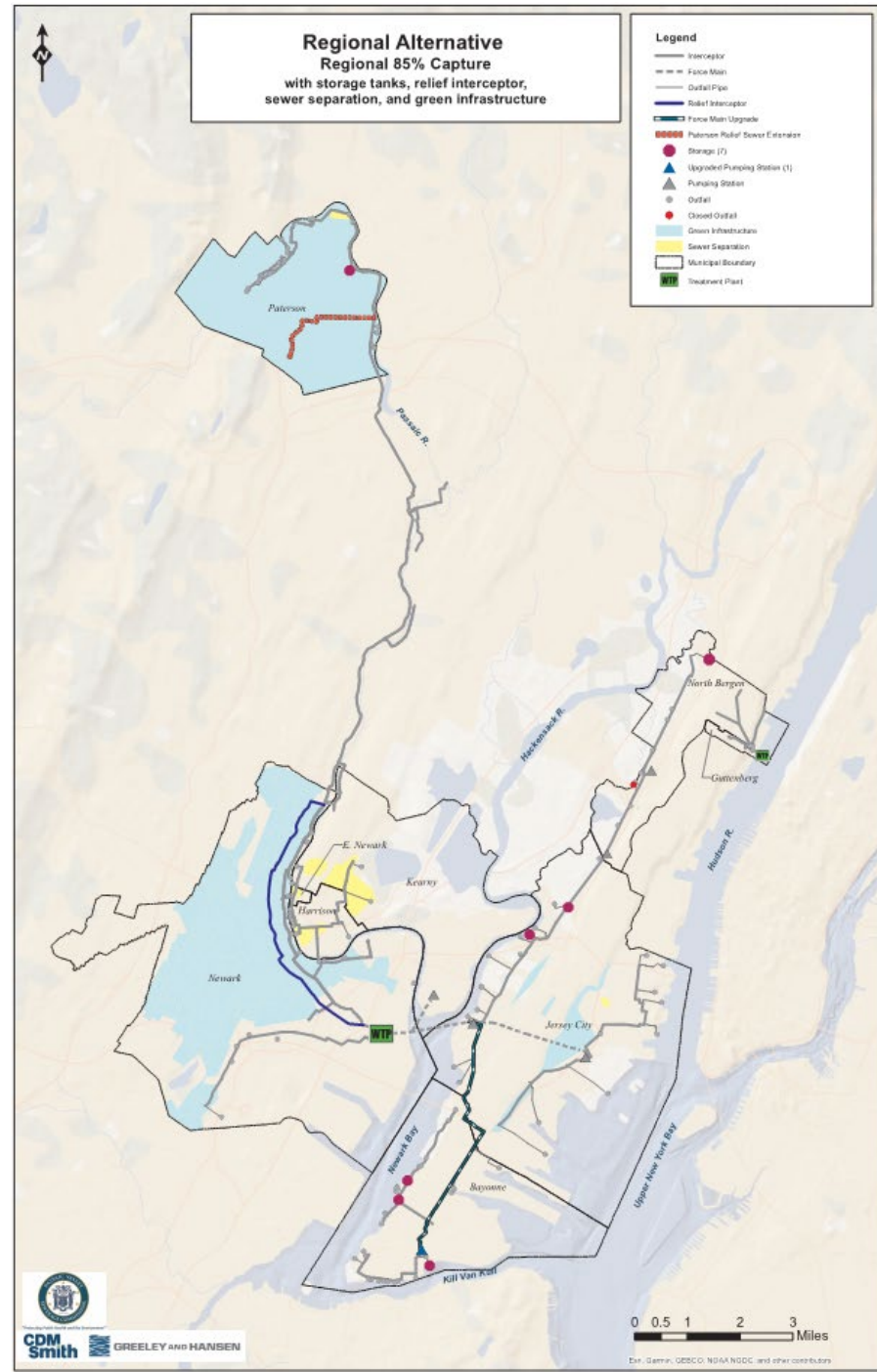
**Passaic Valley Sewerage Commission
CSO Long Term Control Plan**

Legend

- Interceptor
- Force Main
- Outfall Pipe
- Relief Interceptor
- Force Main Upgrade
- Paterson Relief Sewer Extension
- Storage (7)
- ▲ Upgraded Pumping Station (1)
- ▲ Pumping Station
- Outfall
- Closed Outfall
- Green Infrastructure
- Sewer Separation
- Municipal Boundary
- WTP Treatment Plant

Map created on: 6/8/2020 3:36 PM

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Performance Summary



Performance Summary

Municipality	Baseline		Municipal Alternative		Regional Alternative	
	Annual CSO (MG)	Capture	Annual CSO (MG)	Capture	Annual CSO (MG)	Capture
Bayonne	747	49%	217	85%	308	79%
East Newark	17	77%	11	85%	11	85%
Harrison	47	82%	38	85%	38	85%
Jersey City	1,557	72%	550	88%	1,145	77%
Kearny	255	75%	99	85%	99	85%
Newark	1,313	77%	686	86%	210	96%
North Bergen	274	66%	119	85%	136	83%
Paterson	353	82%	268	85%	268	85%
Totals – System Wide CSO / Percent Capture*	4,563	69%	1,988	86%	2,215	85%

Cost Summary



Capital Cost Summary by Municipality

Permittee	Municipal Alternative	Regional Alternative*
	Updated Capital Costs (\$M)	Updated Capital Costs (\$M)
Bayonne	\$335	TBD
East Newark	\$6	TBD
Harrison	\$16	TBD
Jersey City	\$645	TBD
Kearny	\$70	TBD
Newark	\$435	TBD
North Bergen	\$36	TBD
Paterson	\$122	TBD
PVSC	\$45	\$45
Interceptor*	-	\$219
Totals, \$M	\$1,710	\$1,179

*Individual costs for each Permittee do not include costs for interceptor. Cost Sharing Plan to be finalized in order to determine each Permittee's share of the interceptor cost.

Regional Alternative Cost Sharing Plans

- There are numerous Cost Sharing options that can and should be considered by the municipalities
- If the municipalities collectively agree to proceed with a regional alternative, they are responsible for the development and selection of the alternative cost sharing plan



Next Steps

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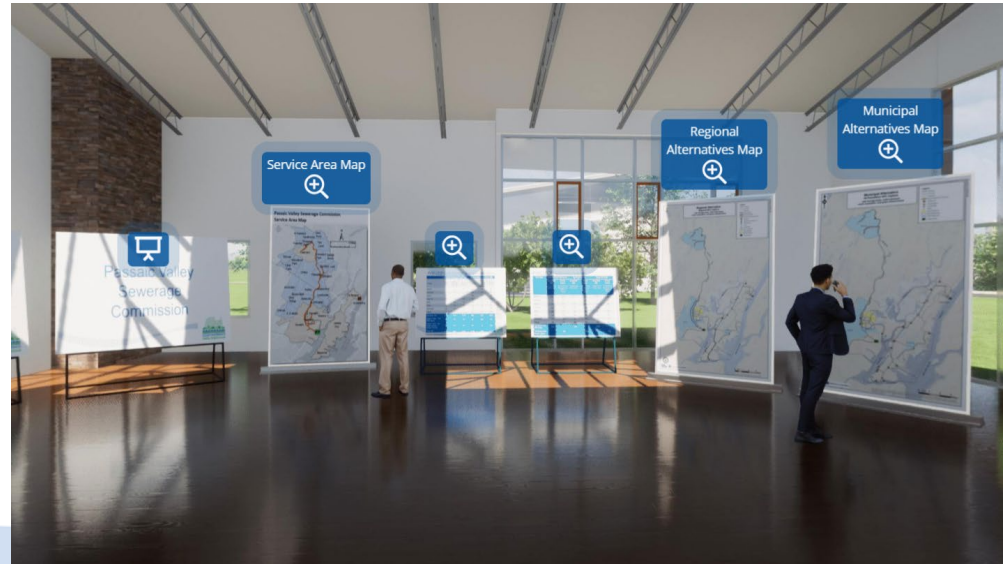
Next Steps

- Submit final LTCP and SIARs – October 1, 2020
- Continued negotiation of regional cost allocation among permittees
- NJDEP Review of LTCP and SIARs
- NJDEP issues draft NJPDES permits with LTCP implementation milestones
- NJPDES permit review and comment period
- NJDEP issues final NJPDES permit with approval of LTCP

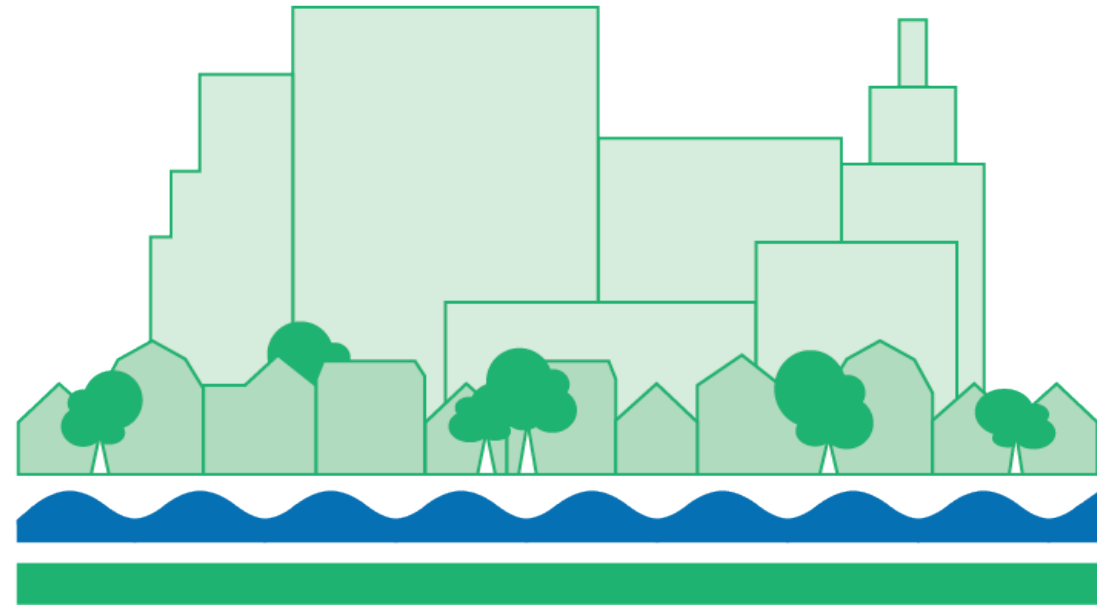


Contact List for Permittees & Virtual Room Update

- Permittees Contact List
 - Posted on “Clean Waterways, Healthy Neighborhoods” website
 - <https://www.njcleanwaterways.com/>
- SCSO Team Virtual Room Update
 - Copy this link into your browser: <https://gather.cdmsmith.com/v/4e0jDR4M1r9>.
 - Please use Chrome or Edge



Questions and Discussion



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Healthy Neighborhoods

Breakout Sessions

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Breakout Sessions

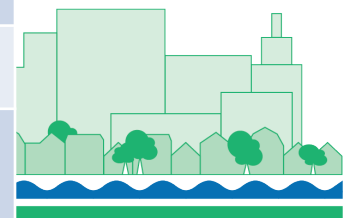
Breakout Group	Municipality/Permittee
1	PVSC- (Please remain in this virtual meeting)
2	Jersey City
3	Newark
4	Bayonne
5	Paterson
6	Harrison and Kearny
7	Guttenberg, North Bergen MUA, East Newark



Breakout Sessions

- Three ways to join:
 - 1) **Recommended: Visit Clean Waterways Healthy Neighborhoods Website and join via links to breakout rooms:** <https://www.njcleanwaterways.com/pvsc-meeting>
 - 2) Find and click on the links to the breakout rooms in the meeting chat
 - 3) Call into the breakout rooms using the phone numbers below (audio only)

Breakout Group	Municipality/Permittee	Call-In Number	Conference ID
1	PVSC- (Please remain in this virtual meeting room)		
2	Jersey City	<u>(844) 566-5330</u>	844 030 547#
3	Newark	(844) 566-5330	457 110 542#
4	Bayonne	<u>(844) 566-5330</u>	509 640 739#
5	Paterson	<u>(844) 566-5330</u>	874 621 431#
6	Harrison and Kearny	<u>(844) 566-5330</u>	658 333 004#
7	Guttenberg, North Bergen MUA, East Newark	<u>(844) 566-5330</u>	385 879 847#



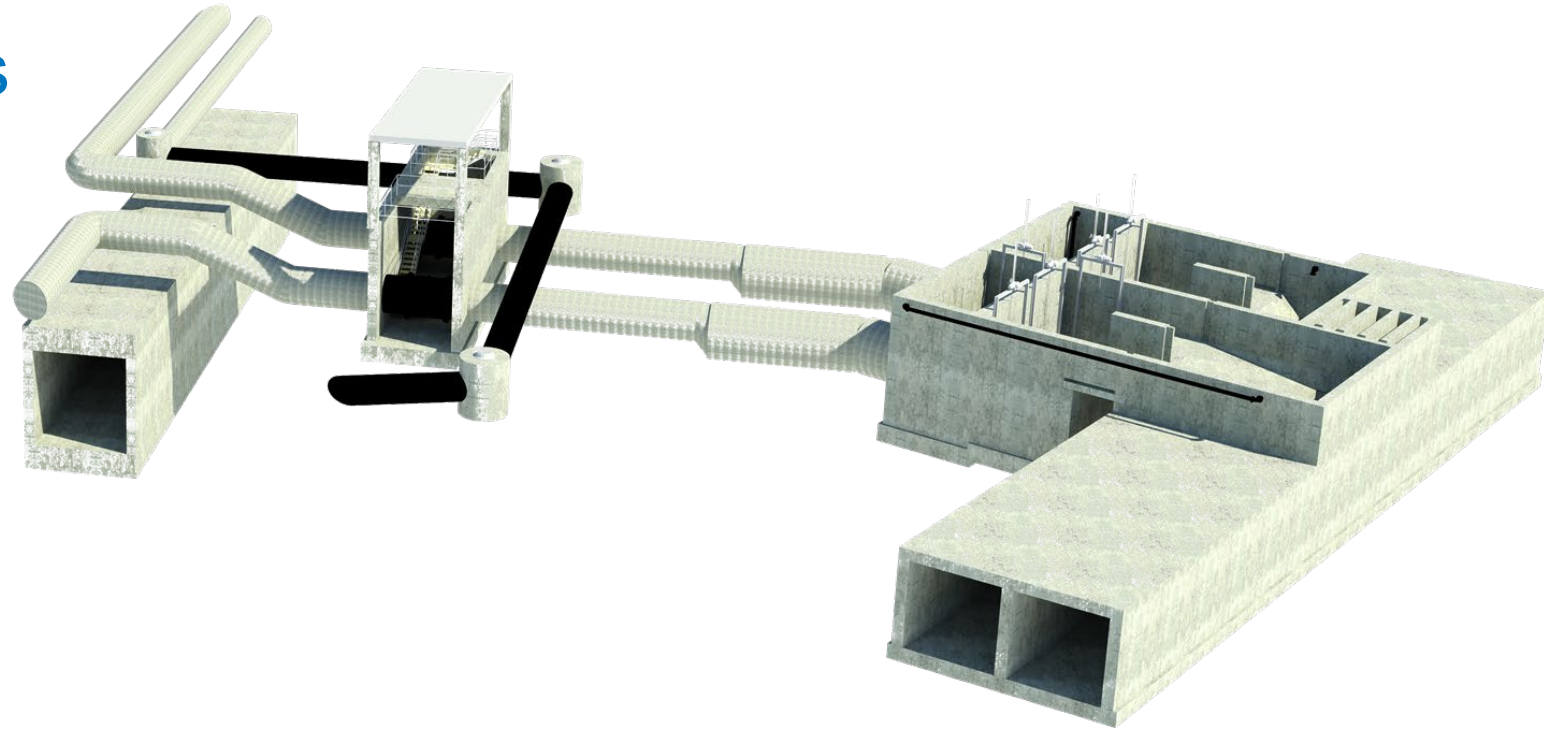
PVSC Breakout Session

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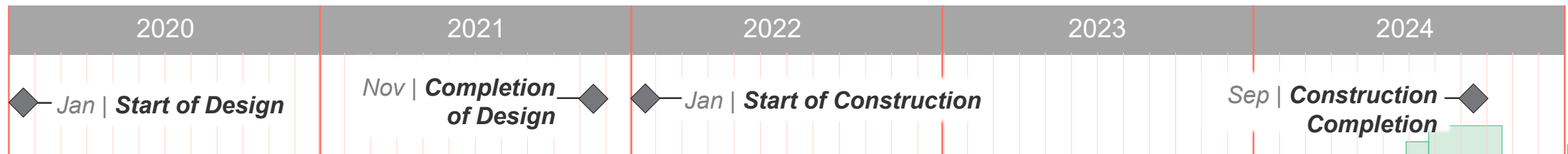


PVSC Secondary Bypass

- During major storm events, a portion of PVSC's Primary Effluent will bypass secondary treatment and combine with the final clarifier effluent, upstream of disinfection. By operating this bypass system, PVSC will increase its influent flow and reduce CSOs by up to 1.0 billion gallons each year.



Project Milestones



Graphics provided by Hazen and Sawyer

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