What is a CSO?
NJ CSO Outfalls

CCMUA (1)
- Camden (22)
- Gloucester (7)

MCUA
- Perth Amboy (16)

Trenton STP (1)

BCUA
- Fort Lee (2)
- Hackensack (2)
- Ridgefield Park (6)

Joint Meeting
- Elizabeth (29)

North Bergen
- Woodcliff (1)
- Guttenberg (1)

North Hudson SA (10)

PVSC
- East Newark (1)
- Harrison (6)
- Bayonne (28)
- Kearny (5)
- Paterson (23)
- Jersey City (21)
- Newark (18)
- N Bergen MUA (9)
CSO STPs and Municipalities

BCUA
- Fort Lee
- Hackensack
- Ridgefield Park

Joint Meeting
- Elizabeth

North Bergen
- Woodcliff
- Guttenberg

North Hudson SA
- Hoboken
- Union City
- Weehawken
- West New York

PVSC
- Bayonne
- East Newark
- Harrison
- Kearny
- Paterson
- Jersey City
- Newark
- North Bergen

MCUA
- Perth Amboy

Trenton STP
- Trenton

CCMUA
- Camden
- Gloucester
What Has NJDEP Done?

- 25 Individual CSO permits were issued on March 12, 2015, effective July 1, 2015.
- Required DMR Submittals for each outfall
- Sensitive Areas, Compliance Monitoring, Public Participation and System Characterization were due July 1, 2018.
- Development and Evaluation of Alternatives were due on July 1, 2019.
- Long Term Control Plan (LTCP) is due June 1, 2020.

An ambitious schedule with cascading permit requirements.
Combined Sewer Overflow

The Department is committed to working with Combined Sewer Overflow (CSO) permits and CSO communities to reduce or eliminate CSOs. The Department provides technical assistance, guidance, and training to permittees in meeting their permit obligations.

The individual CSO permits, effective on July 1, 2015, encourage permittees and community collaboration on the planning and development of projects that will provide urban redevelopment opportunities, improve water quality, beautify neighborhoods, and improve the overall quality of life in our urban communities.

Since the issuance of the first NJDEP permits to regulate CSOs, the total number of CSO outfalls in New Jersey has been reduced from 281 to 210; a reduction of more than 20%. Additionally, solids and floatables Concerns Submittals have been installed at nearly every CSO outfall to prevent solids greater than one half inch from entering the sewers.

The 25 individual permits, issued March 2015, cover the remaining outfalls in 21 municipalities. The individual permits including the response to comments document can be found on the toolbar. These permits build upon the previous general permit requirements; permittees should consider what work has already been performed and how past achievements may be incorporated into new efforts to satisfy the new individual CSO permit requirements.

Featured Topics

- Long Term Control Plan Submittals
- Public Participation Process Report Guidance
- Evaluating Green Infrastructure
- A CSO Control Alternative for LTCPs
- Wet Weather Flow Treatment and Disinfection Demonstration Project Report
- CSO Sewer Maps
- CSO Outfall Interactive Map
- Forming and Utilizing Your Supplemental CSO Team
- New CSO Funding Options
- Join our CSO email list
CSO Interactive Map can be found at NJDEP DWQ CSO Webpage
CSO Interactive Map
CSO Interactive Map
Timeline

**July 1, 2015**
- Permit Effective Date

**July 1, 2016**
- Map of CSAs and SSAs

**July 1, 2017**
- System Characterizations Work Plan
- Baseline Compliance Monitoring Program Work Plan
- Baseline Compliance Monitoring Program Report
- Compliance Monitoring Program Report
- Consideration of Sensitive Areas Report

**July 1, 2018**
- System Characterization Report
- Public Participation Report

**July 1, 2019**
- Development and Evaluation of Alternatives Report
- Compliance Monitoring Program Report
- Consideration of Sensitive Areas Report

**June 1, 2020**
- Selection and Implementation of Alternatives Report in the Final LTCP
Public Participation
NJPDES Permit Part IV.G.2

Implementation shall actively involve the affected public throughout each of the 3 Steps of the LTCP process. The affected public includes:

- rate payers (including rate payers in the separate sewer sections) industrial users of the sewer system
- persons who reside downstream from the CSOs
- persons who use and enjoy the downstream waters, and
- any other interested persons

Camden Smart Initiative
Ferry Avenue Rain Garden
Public Participation
NJPDES Permit Part IV.G.2

A Public Participation Process Report shall include the following elements:

• **Conduct outreach** to inform the affected/interested public through *various methods* which may include: public meetings, direct mailers, billing inserts, newsletters, press releases to the media, postings of information on the permittee’s website, hotline, development of advisory committees, etc.; and to

• Invite members of the affected/interested public to join a **Supplemental CSO Team** to work with the permittee’s assigned staff, consultants and/or contractors.
Public Participation
NJPDES Permit Part IVG.2
Figure C-2 of PVSC System Characterization Report
PVSC Service Area with CSO Outfall Locations
Purpose of the Combined Sewer System Characterization

How does the Combined Sewer System function when it rains throughout a year?

• Analysis of relationship between rainfall, CSO discharge and Wet Weather Flows at treatment plants
• Which discharge? How much? How often?
• How do CSO discharges relate to rainfall amount and duration?
• Where does flooding occur?
• Characterization of the discharges (both CSO and stormwater)

Need enough analysis to inform alternatives evaluation

Foundation of the LTCP
Question: What will the CSO Program be focused on during the next three months?
Alternatives Analysis Review

- Alternatives Analyses will be posted on CSO webpage
- Multi-disciplinary review:
  - CSO Team Leaders, Alternatives Analysis Team Leads, CSO Program, Stormwater, Municipal Finance and Construction, TWA –
  - Minimum of 7 reviewers on each report
- DEP intends to conduct a comprehensive and prompt review
- DEP’s response is crucial to the next step: LTCP submittal
What Is the DEP Looking for in the Alternatives Analysis?

Generally:
- Are the alternatives presented practical and technically feasible?

Specifically:
1) Were all 7 CSO control strategies considered?
2) Are multiple alternatives presented?
3) What input did the Supplemental CSO Team have?
Were all 7 CSO Control Strategies Considered?

1) Green Infrastructure
2) Increased storage capacity in the collection system
3) STP Expansion (Increased secondary)
4) I/I Reduction
5) Sewer Separation (w/ Stormwater Trt)
6) Treatment of the CSO discharge
7) Bypass of Secondary Treatment

Others???
How can the public provide input on the alternatives analysis?

<table>
<thead>
<tr>
<th>Permittee</th>
<th>DEP Team Lead</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camden County Municipal Utility Authority</td>
<td>Armando Alfonso</td>
</tr>
<tr>
<td>The City of Camden</td>
<td><a href="Armando.Alfonso@dep.nj.gov">Armando.Alfonso@dep.nj.gov</a></td>
</tr>
<tr>
<td>The City of Gloucester</td>
<td>(609) 633-7021</td>
</tr>
<tr>
<td>Trenton Sewer Authority</td>
<td></td>
</tr>
<tr>
<td>Bergen County Utilities Authority</td>
<td></td>
</tr>
<tr>
<td>Fort Lee Boro</td>
<td></td>
</tr>
<tr>
<td>Hackensack City</td>
<td>Nancy Kempel</td>
</tr>
<tr>
<td>Ridgefield Park Village</td>
<td><a href="Nancy.Kempel@dep.nj.gov">Nancy.Kempel@dep.nj.gov</a></td>
</tr>
<tr>
<td>The Joint Meeting of Essex and Union Counties</td>
<td>609-292-4860</td>
</tr>
<tr>
<td>The City of Elizabeth</td>
<td></td>
</tr>
<tr>
<td>North Bergen Woodcliff STP</td>
<td>Joe Mannick</td>
</tr>
<tr>
<td>Town of Guttenberg</td>
<td><a href="Joe.Mannick@dep.nj.gov">Joe.Mannick@dep.nj.gov</a></td>
</tr>
<tr>
<td>Adams Street WTP</td>
<td>609-292-4860</td>
</tr>
<tr>
<td>River Road WTP</td>
<td></td>
</tr>
<tr>
<td>The City of Perth Amboy</td>
<td></td>
</tr>
<tr>
<td>Middlesex County Utilities Authority</td>
<td></td>
</tr>
<tr>
<td>Passaic Valley Sewerage Commission</td>
<td></td>
</tr>
<tr>
<td>Bayonne City MUA</td>
<td></td>
</tr>
<tr>
<td>Jersey City MUA</td>
<td></td>
</tr>
<tr>
<td>City of Newark</td>
<td></td>
</tr>
<tr>
<td>North Bergen Township MUA</td>
<td></td>
</tr>
<tr>
<td>East Newark Borough</td>
<td></td>
</tr>
<tr>
<td>Harrison Town</td>
<td></td>
</tr>
<tr>
<td>Kearny Town</td>
<td></td>
</tr>
<tr>
<td>Paterson City</td>
<td></td>
</tr>
</tbody>
</table>
LTCPs in Permits!

- When the LTCPs are submitted, DEP will conduct a multidisciplinary review.
- The DEP committed to issuing individual permits, not Administrative Consent Orders or Judicial Consent Decrees.
- The permits have a 5 year duration; LTCPs could be 20 years

L-T-C-P
Questions?

Susan Rosenwinkel
Susan.rosenwinkel@dep.nj.gov
(609) 292-4860