Village of Ridgefield Park Supplemental CSO Team Meeting Number 1 – Project Introduction

Commissioner's Conference Room Village of Ridgefield Park Municipal Building May 15, 2017, 9 am

Group Meeting Minutes

1. Introductions

The meeting began at 9:10 with introductions of all members present.

2. Presentation

Overview of CSOs and Permit Requirements John Dening, Mott MacDonald See power point slides

3. NJDEP presentation

Presentation covered the three questions:
What is a CSO?
What does it look like?
What is being done?

Joe Minnick, NJDEP-CSO See power point slides

4. Discussion

a. The group discussed what amount of rainfall typically causes a discharge event. John Rolak explained that 50 percent of rainfall events do not cause an overflow. One goal will be to reduce the number of discharges in the region to less than 4 per year. Toward that goal we will be looking at the possibility of capturing rainfall events for lower intensity storms of .5 – 1.5 inches.

The BCUA is working on developing a model of its whole system to determine how many overflows are happening regionally.

- Joe Minnick pointed out that the NJDEP will not expect controls to capture a super storm such as Sandy.
- c. John Rolak discussed models that had been done in the past that compared water quality with CSO and water quality in separated systems. The results of the modeling indicated that water quality is actually better with CSOs. The only exception is the pathogen levels, which were higher with CSOs. Separating the

sewers creates more untreated storm water going to the river along with pollutants such as runoff, animal waste and leakage from sewers. One option might be to treat the overflow for pathogens.

- d. Based on earlier studies, storing the flow during a storm would cost about \$200 million, which would not be an economical solution.
- e. Rain gardens were discussed as an option for preventing runoff. Pennsylvania is an example of where this has been used.
- f. The role of trees to prevent storm water runoff was discussed.
- g. The idea was discussed of intervening when homeowners are paving driveways or businesses are installing lots. Pervious pavement and storage tanks could be suggested.
- h. The question was raised about if water quality in the river will definitely improve if money is spent. John Rolak explained that further study would help us better understand the sources of pollution.
- Joe Minnick added that if CSOs are separated treatment would be needed in the future to treat the storm water.
- j. John Rolak noted that Ridgefield Park has had dry water overflows in the past due to people connecting sewer lines directly to the storm water system

5. Next Steps

The group was asked to provide two volunteers for the BCUA Supplemental CSO Team, which will meet in June. Mark Olson volunteered.

6. Next Meeting

Donna Gregory will be in contact to determine a mutually agreeable date.

7. Adjournment

Meeting concluded at 10:50 am.

Minutes submitted by: Donna Gregory

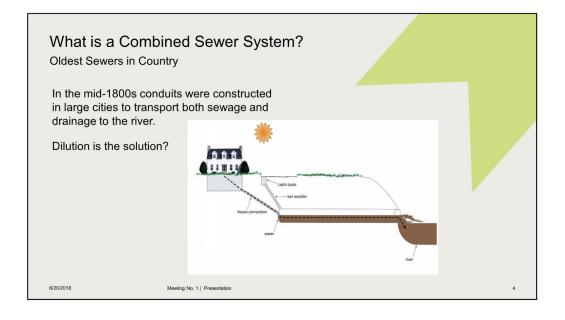
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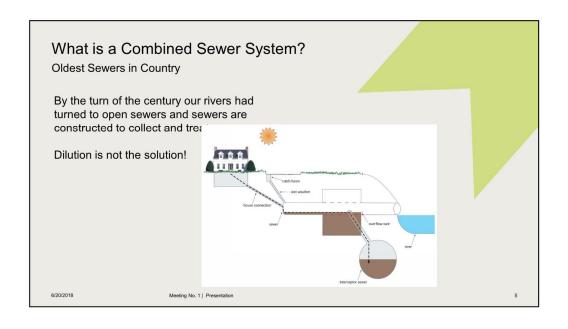
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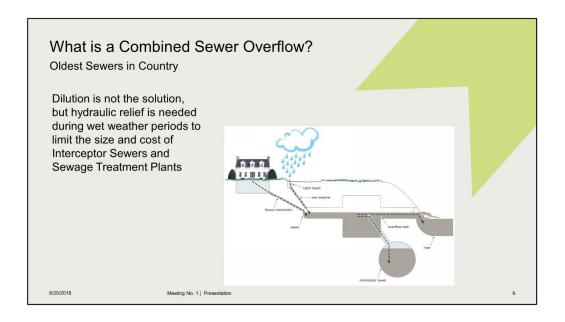


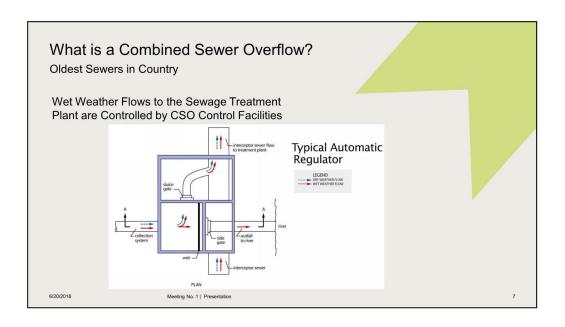


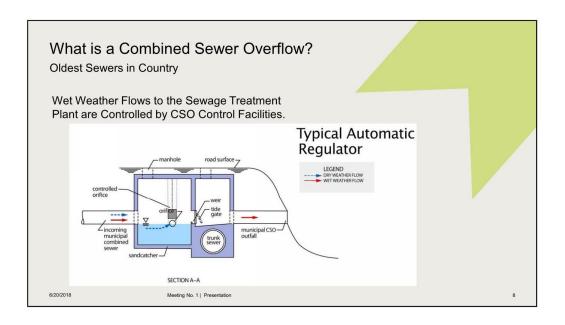
Supplemental CSO Team Meeting No. 1 Agenda Important points to cover: What is a Combined Sewer System? What is a Combined Sewer Overflow? Why is the Village Undertaking this Project? What are the Requirements? What are the Deadlines? Meeting No. 1 | Presentation











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Why is the Village Undertaking this Project? Background

- 1948 Federal Water Pollution Control Act (FWPCA)
- 1972 FWPCA amended and renamed Clean Water Act
- 1989 EPA National CSO Control Strategy
- 1994 EPA CSO Control Policy
- 1995 NJ Master General Permit
- 2004 NJ Master General Permit Revoked and Reissued

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Why is the Village Undertaking this Project?

New Jersey Pollutant Discharge Elimination System (NJPDES)

NJPDES Individual Permit Issued March 12, 2015 requires Permittees to:

- Install New Outfall Signs
- Update system data compiled in 2006
- Revise Rules/Ordinances on Sewer Use
- Update Operation and Maintenance Manual
- Create and Maintain a CSO Hotline or Website
- Update Standard Operational Procedures (SOPs)
- Develop an Asset Management Plan

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Work Completed to Date Summary of Reports or Requirements that are to be Completed and Retained On-Site (i.e. not submitted to the Department) 59 Month LTCP Permit Condition Abbreviated Description of Requirement **Due Date** January 1, 2016 January 1, 2016 Part IV.D.2.c Install outfall signs Update the characterization of the system's Part IV.F.1.f. infrastructure (list of sewer system components and SIUs) using a spreadsheet Part IV.F.1.h Create anticipated schedule to revise January 1, 2016 Rules/Ordinances/Sewer Use Agreements to reduce Insert SOPs in O&M Manual Part IV.F.1.i January 1, 2016 and Part IV.D.4.b.iv Part IV.F.1.g Insert characterization on a GIS Map July 1, 2016 Part IV.F.8.c.iii Create and maintain Telephone Hot Line or Website July 1, 2016 Part IV.D.4.b.iv Update O&M Manual with SOPs, Asset July 1, 2016 and Management Plan and Emergency Plan Annually thereafter Part IV.F.1.k Insert and update an Asset Management Plan in July 1, 2016 and O&M Manual Annually thereafter 6/20/2018 Meeting No. 1 | Presentation

Why is the Village Undertaking this Project?

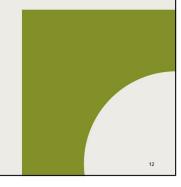
New Jersey Pollutant Discharge Elimination System (NJPDES)

NJPDES Individual Permit Issued March 12, 2015 also required:

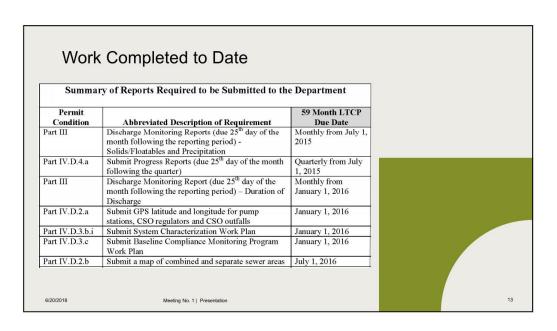
- Global Positioning System (GPS) Data
- Discharge Monitoring Reports (DMRs)
- Baseline Compliance Monitoring Program
- System Characterization Study
- Public Participation Process Report
- · Compliance Monitoring Program Report
- Consideration of Sensitive Areas
- Develop and Evaluation of Alternatives
- Submission of Long Term Control Plan (LTCP)
- · Submission and Implementation of Alternatives Report

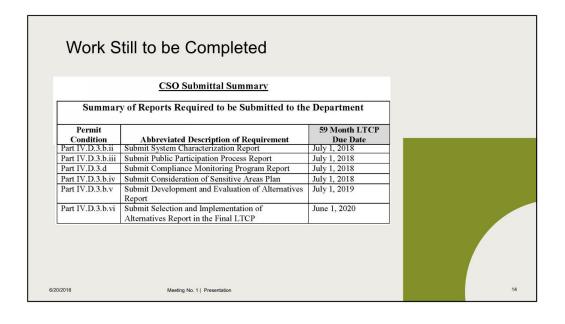
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Sewer System Characterization Report

Description and Status

Initial System Characterization Completed 2003 - 2006

- Sewer System Mapping
- Dry and Wet Weather Monitoring at Regulators and Outfalls.
- Review of Land Use and Population Data
- Development of Land Side Computer Model
- Computer Output used to Characterize
 CSO Discharge

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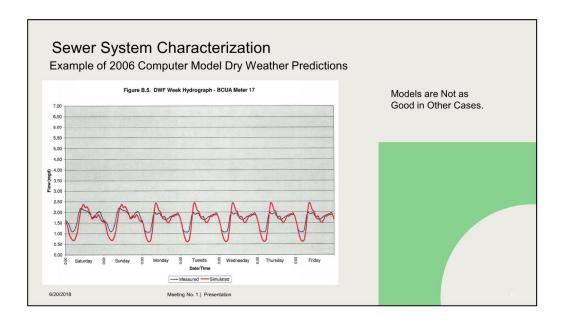
Sewer System Characterization Report
Example of 2006 Computer Model Dry Weather Predictions

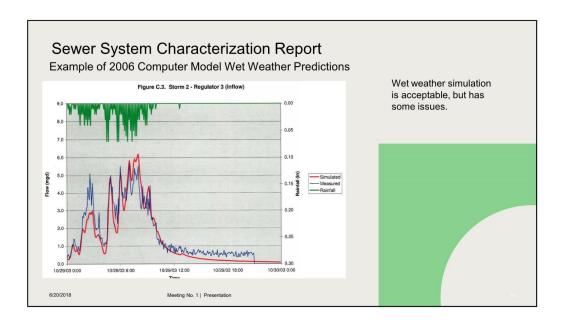
Figure B.3. DWF Week Hydrograph - Regulator 5

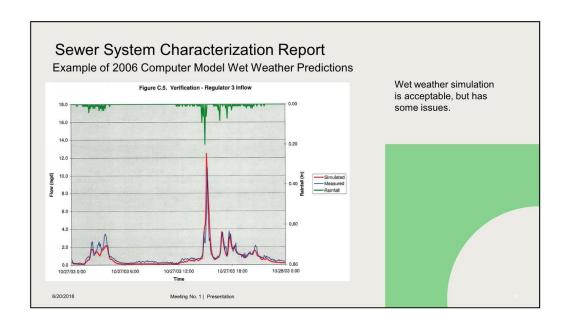
Models are Good in Some Cases.

Models are Good in Some Cases.

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Sewer System Characterization Report to Be Updated Description and Status

- · Land Use Has Not Changed.
- Population Has Not Changed.
- Sewer System Has Not Changed.
- Global Positioning Stationing (GPS) 2016
- New GIS Mapping Using GPS Data 2017
- · InfoWorks Computer Model Updated
- Additional Flow Data Being Collected
- · Model to be Calibrated and Verified

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Public Participation Process Report Description NJPDES Permit Requires Supplemental CSO Team Local and Regional Teams Local Team to Deal with Local Issues Regional Team to Deal with Overall Regional LTCP Seek to Actively Involve Affected Public Rate Payers Industrial Users Environmental Groups Integration with Municipal Agencies

Public Participation Process Report Description Supplemental CSO Team Quarterly Meetings Anticipated for Permit Process and Requirements System Characterization and Results Status and Schedule for Each Process Sensitive Area Analysis Alternative Control Considerations LTCP Alternatives and Costs Implementation Schedule

Mott MacDonald 26

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Public Participation Process Report Description

Supplemental CSO Team

- Is Our Link to the General Public
- · We Want You to Talk to Others
- Will Provide Input on Planning Process
- · Will Provide Input for Consideration on
 - Evaluation of Sensitive Areas

Public Participation Process Report

Supplemental CSO Team has an

Advisory Role!

- Evaluation of CSO Control Alternatives
- Selection of CSO Control Alternatives

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Description

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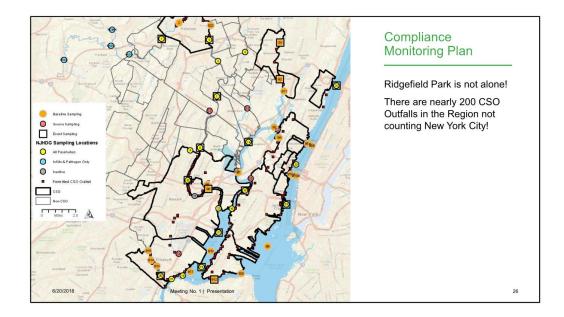
Compliance Monitoring Program Plan (CMP) and Report Description

Each permittee is required to complete a CMP to Evaluate the Effectiveness of CSO Controls including:

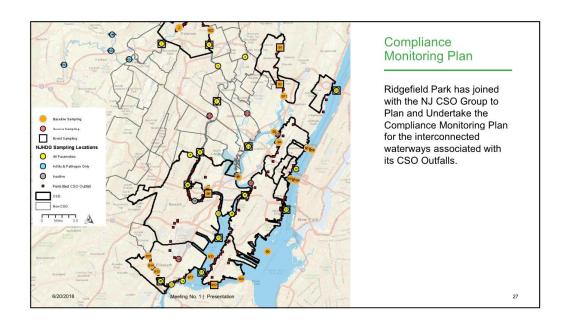
- Determine Discharge Frequency for Each CSO Outfall
- Duration of Discharge for Each CSO Outfall
- Quality of Flow from each CSO Outfall
- Monitor Rainfall in the Vicinity of Each Outfall
- Establish a Baseline Receiving Water Quality

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Compliance Monitoring Program Plan (CMP) and Report Description

The CMP will be used in the Future to Establish:

- Effectiveness of CSO Controls
- Compliance with Water Quality Standards
- Protection of Designated Uses

But Keep in Mind CSO Discharges are Not The Only Source of Pollutants in the Region!

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Compliance Monitoring Program Plan (CMP) and Report Description

Accordingly, the CMP is being tied to a Receiving Water Model to Better Evaluate Water Quality in the Region and to Answer:

- Existing Water Quality Compliance
- Impacts of CSO Discharges
- Impacts of Municipal Storm Sewer Systems (MS4)
- Impacts from New York City Combined Sewers

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Compliance Monitoring Program Plan (CMP) and Report Description

The CMP:

- Work Plans were submitted and approved by NJDEP.
- Dry Weather Monitoring has been Completed.
- Wet Weather Monitoring will be completed shortly.
- Additional information on findings will be forthcoming at a future meeting.

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Development and Evaluation of Alternatives Description

Deadline for Submission is July 1, 2019

- Work will be Presented to CSO Supplemental Team in Future Meetings
 - · What are alternative controls?
 - · Space requirements for each
 - What are the costs associated with each?
 Construction Costs
 Operation and Maintenance Costs
 - Anticipated Benefits

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Selection and Implementation of Alternatives Report In the Final LTCP

Description

Deadline for Submission is June 1, 2020

- Work will be Presented to CSO Supplemental Team in Future Meetings
 - What are alternative controls recommended?
 - What are the costs associated with the LTCP?
 Construction Costs
 Operation and Maintenance Costs
 - · Implementation Schedule.
 - Anticipated Benefits

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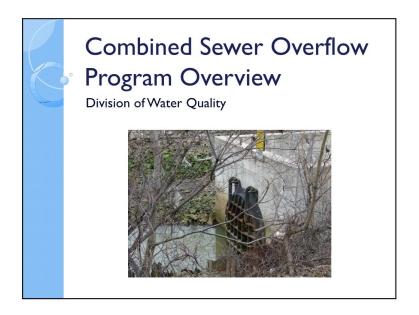
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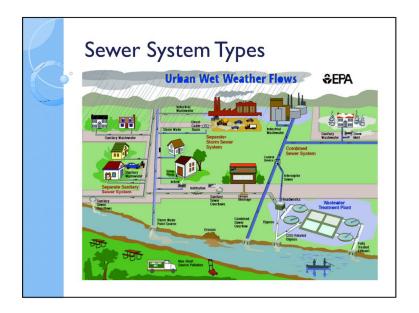
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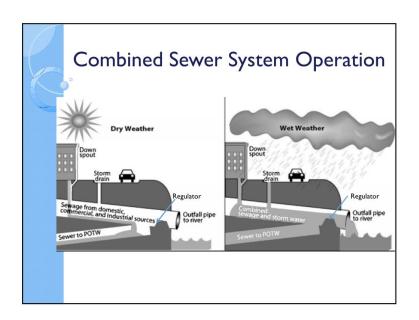


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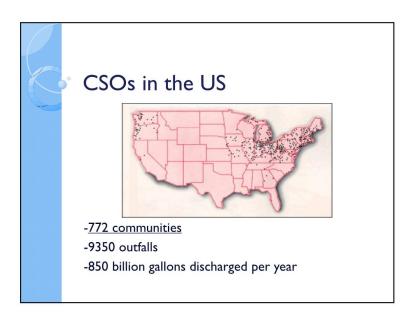


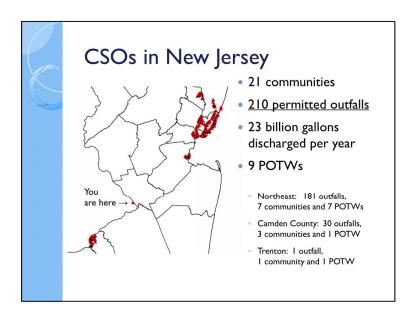
Combined Sewer Systems

 Combined Sewer Systems are remnants of our country's early infrastructure.
 They are outdated and in need of repair.







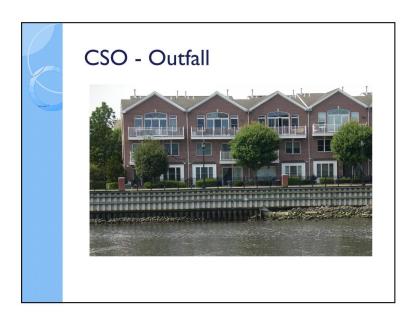


CSO Permits - Two Components

- Nine Minimum Controls (NMC)
 - Simple, low cost measures
 - Mostly carried forward but with some enhancements
- Long Term Control Plan (LTCP)
 - Goal is to reduce or eliminate CSO discharges to comply with the CWA
 - o Dictates a path to achieve that goal
 - Substantially new requirements
 - Due June 2020

Nine Minimum Controls (NMC)

- Proper operation and maintenance
- Maximize use of collection system for storage
- · Review of pretreatment requirements
- Maximize flow to POTW for treatment
- Elimination of discharges during dry weather (SSO)
- Control of solids/floatables
- Pollution prevention
- Public notification (signs & website)
- Monitoring of impacts and efficacy of controls

















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Long Term Control Plan (LTCP)

- System characterization, monitoring and modeling
- Public participation
- Consideration of sensitive areas
- Evaluation of CSO control alternatives
- Cost/performance considerations
- Operational plan
- Maximization of treatment at the POTW
- Implementation schedule
- Post-construction compliance monitoring

Public Participation

- Permittees are required to seek public input throughout the LTCP process via the Supplemental CSO Team:
- ➤ Where is flooding?
- What abatement strategies should be considered?
- What should be the LTCP schedule?



Permittees are not required to follow public input.

Consideration of Sensitive Areas

 Sensitive areas can include: ONR Waters, T&E species, Drinking Water Intakes and Primary Recreation (Bathing beaches)



Sensitive Areas are given the highest priority

