JERSEYWATERWORKS 22 CONFERENCE 22

DECEMBER 13, 2023 | THE COLLEGE OF NEW JERSEY, EWING

The Value Of Water | New Jersey Edition

www.jerseywaterworks.org info@jerseywaterworks.org



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DECEMBER 13, 2023 | THE COLLEGE OF NEW JERSEY, EWING

Green & Gray: Solutions to Manage Stormwater and CSOs



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1.5 AICP CM CREDITS

THE VALUE OF WATER | NEW JERSEY EDITION

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NEW JERSEY AMERICAN WATER







































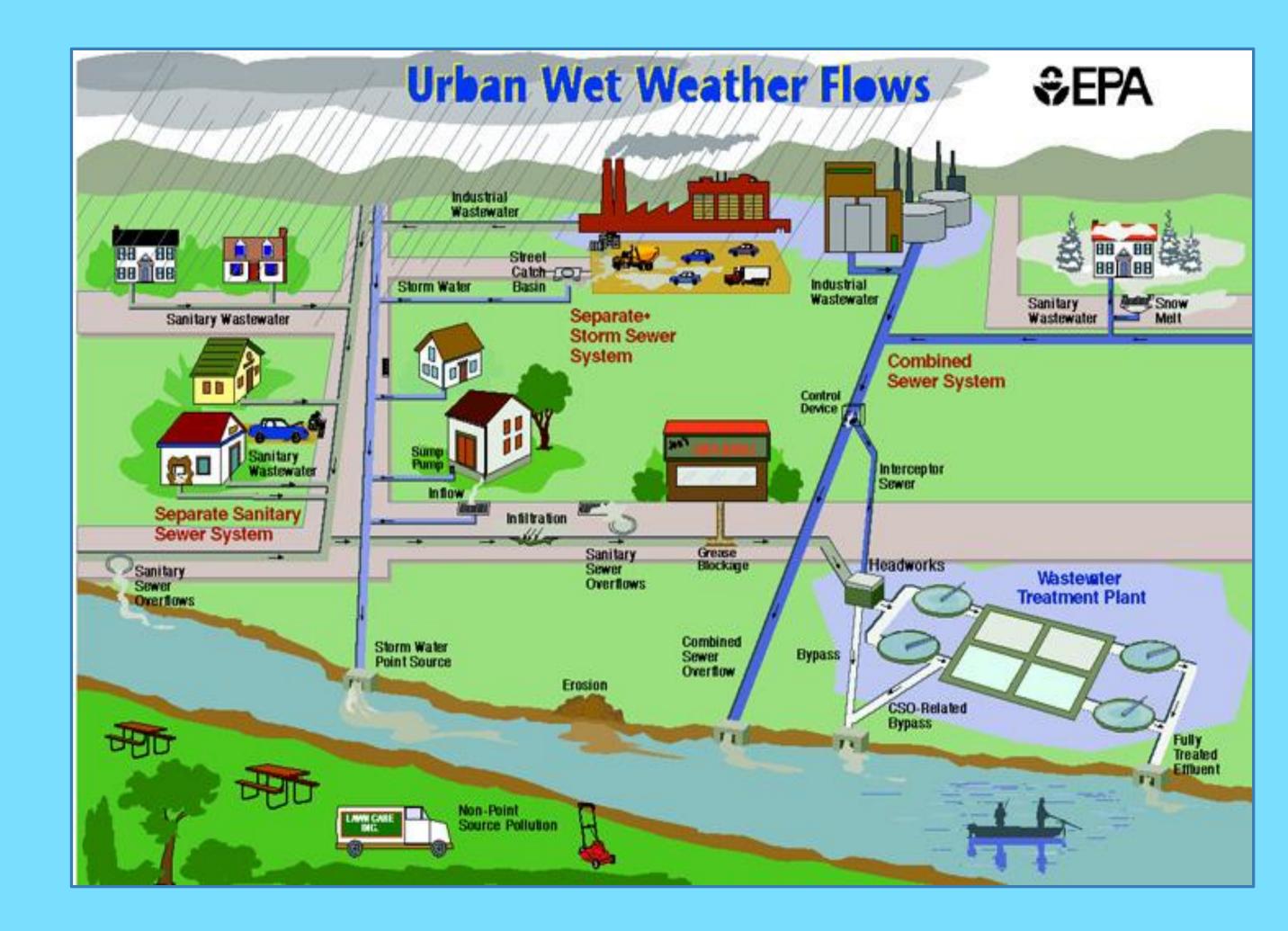




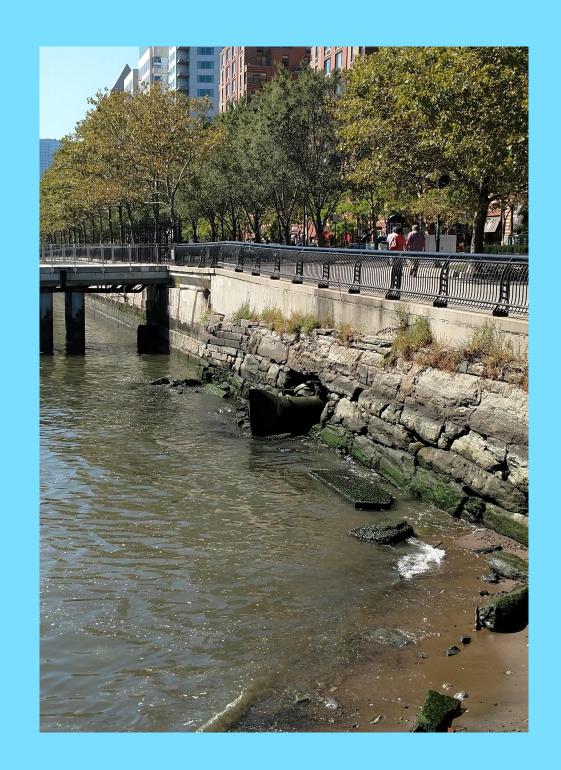
Green & Gray: Solutions to Manage Stormwater and CSOs

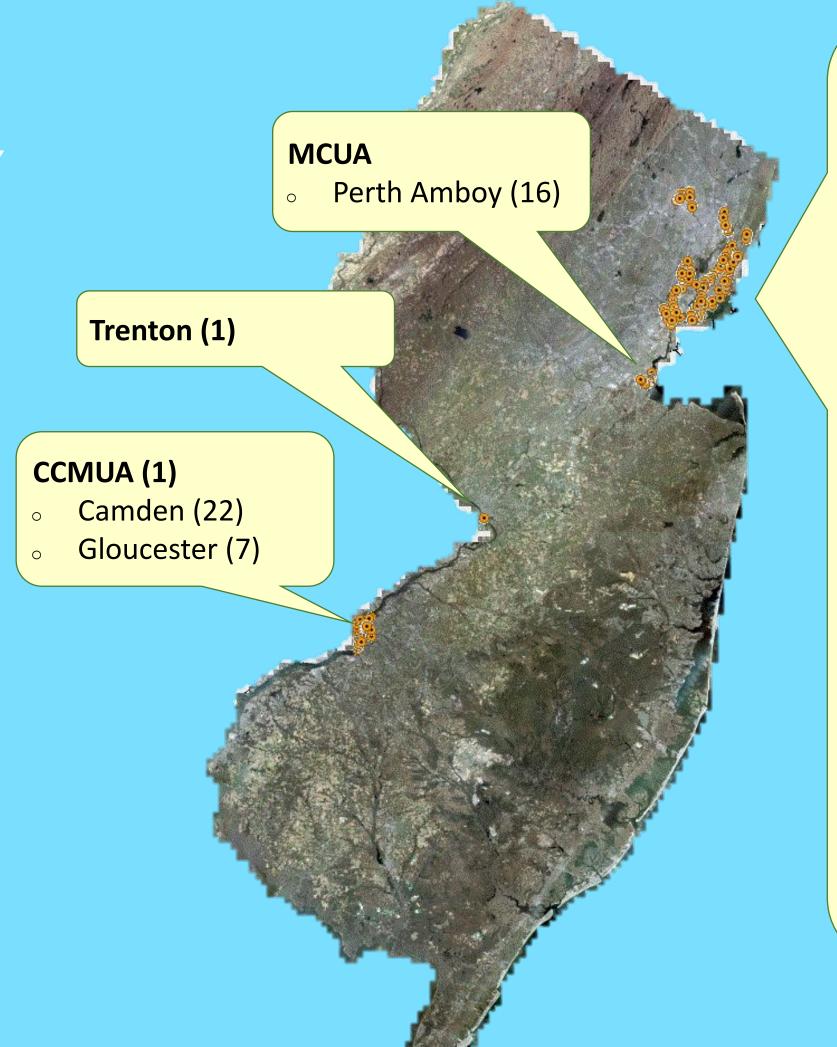
Water Conference
December 13, 2023

Sewer
System
Types



CSOs IN NEW JERSEY





BCUA

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

Joint Meeting

Elizabeth (29)

North Bergen (1)

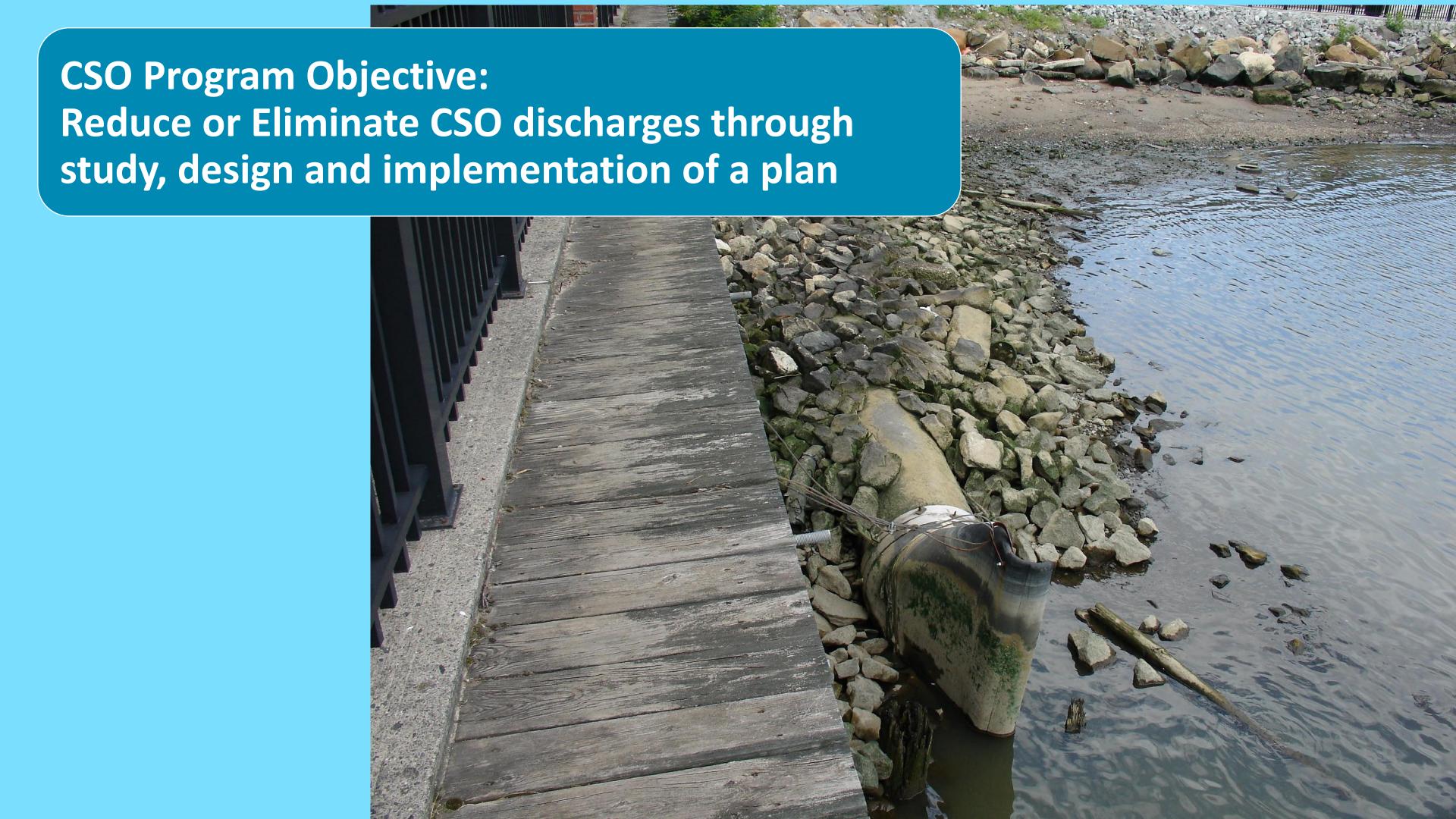
Guttenberg (1)

North Hudson AS (8) North Hudson RR (2)

- Hoboken
- West New York
- Weehawken
- Union City

PVSC

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



2015 Permit Long Term Control Plan

Three Parts of the LTCP:

2018 - System Characterization

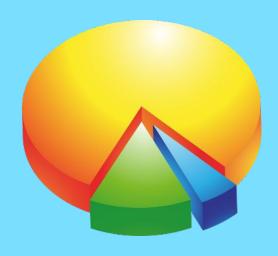
Study the System

2019 - Alternatives Analysis

Investigate the Options

2020 – THE LTCP

Implementation Plan



The Eight LTCPs

North Bergen MUA – Woodcliff STP

North Hudson – Adams Street North Hudson – River Road

Elizabeth and Joint Meeting of Essex & Union Counties

Bergen County
Utilities Authority,
Ridgefield Park, Fort
Lee, Hackensack

PVSC Regional Alternative and Municipal Alternative (8 municipalities)

Perth Amboy and Middlesex County Utilities Authority Camden County
Municipal Utilities
Authority, Camden,
Gloucester



CSO Stakeholder Process

December 2021
Input on Public
Engagement

Jan 2022
Input on
Environmental
Justice

Feb 2022
Input on Climate
Change

<u>Feb 2022</u> Input on Permit Metrics Oct 2022
Program Feedback on Previous Sessions

Oct 2023
Public Engagement
Guidance

Revised
Public
Engagement
Guidance

Nov 2023

CSO Draft Permit Roll Out

<u>December 2022</u>

North Bergen Woodcliff STP & Guttenberg

March 2023

North Hudson Adams St and River Road **May 2023**

Joint Meeting of Essex & Union Counties and City of Elizabeth

May 2023

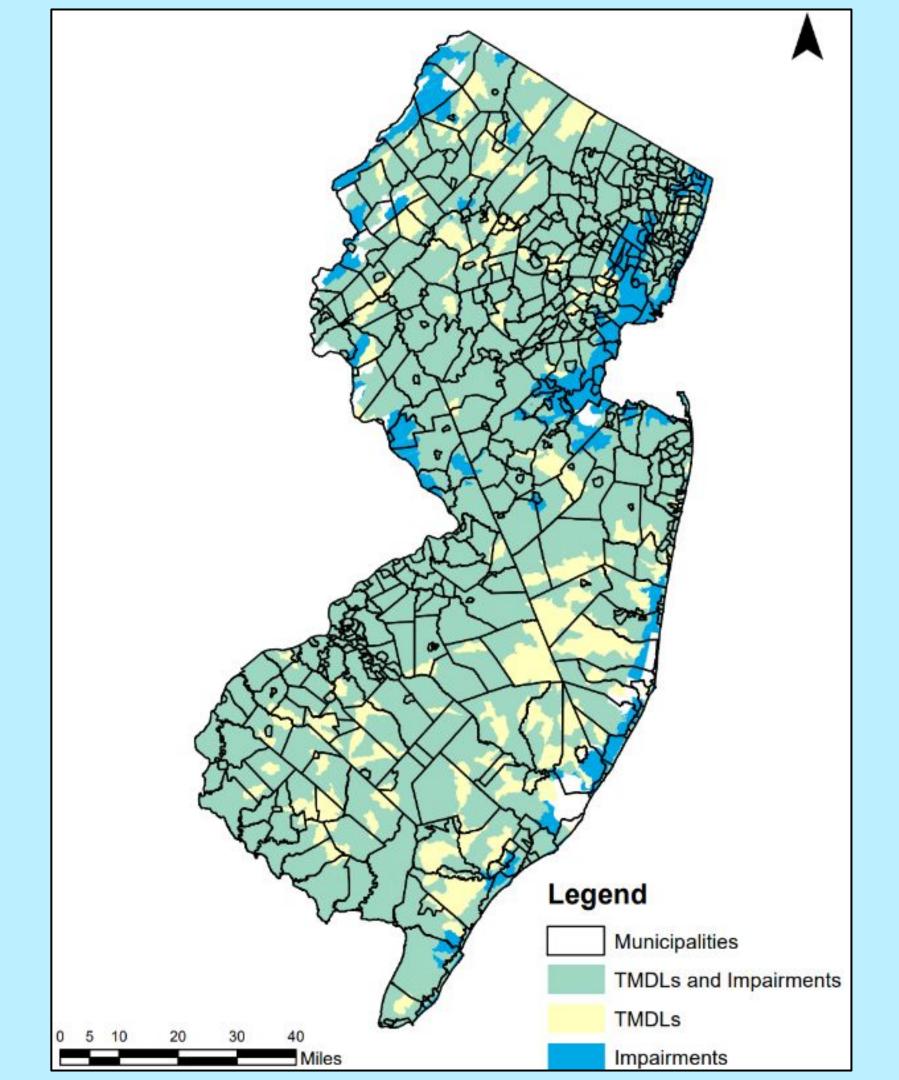
Final North Bergen Woodcliff STP & Guttenberg **Aug & Sept 2023**

Bergen Co UA, Hackensack, Ridgefield Park and Fort Lee **Nov 2023**

Camden Co MUA, Camden and Gloucester

TMDLs & Water Quality Impairments

A portion of every town has at least 1 TMDL or 1 impairment



Highlights from the Renewal

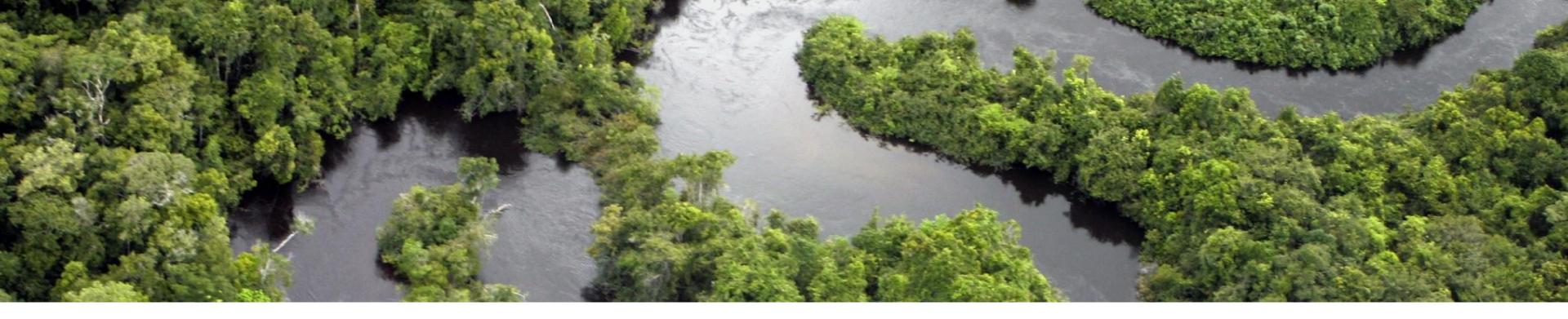
- New Ordinances
 - Privately-owned Salt Storage
 - Tree Removal/Replacement
- Street Sweeping Requirements
 - Triannual Sweeping Every 4 months, sweep segments of municipal roads with storm drain inlets that drain to surface water
 - Annual Sweeping Every year, sweep segments of municipal roads that do <u>NOT</u> have storm drain inlets but <u>DO</u> drain to surface water directly or to a stormwater conveyance
- Stormwater Program Coordinator Training
- Roadside Erosion Control Program

MS4 Mapping

Map all MS4 infrastructure:

- Outfalls (receiving surface water name, type of outfall)
- Ground water discharge points (type)
- Interconnections (type into/from, entity)
- Storm drain inlets (type, catch basin present, label present, retrofitted)
- Manholes
- Conveyance (type, direction of flow)
- Pump stations
- Stormwater facilities (type)
- Property boundary of maintenance yard(s) and ancillary operations (type)





Watershed Improvement Plan Overview

Phase 1 Watershed Inventory

Report

- Due January 1, 2026
- Inventory of ALL stormwater facilities and other relevant information

Phase 2

Watershed Assessment Report

- Due January 1, 2027
- Evaluate stormwater inventory and assess improvement projects

Phase 3

Watershed Improvement Plan Report

- Due December 1, 2027
- Select and begin implementation of improvement projects

Watershed Inventory Report – Phase 1

Permit section IV.H.1.d.

MS4
Infrastructure
Map



Data from NJDEP



Additional Features



WIP
Phase 1
Map



- Water quality classifications
- **TMDL** areas
- Impairment areas
- Overburdened communities
- Impervious areas
- NJPDES Permitted Sites

- Private stormwater facilities*
- Outfall drainage area
- Interconnection drainage area

Resources:

*H & H Database

SWU Utilities



https://dep.nj.gov/njpdes-stormwater/swu_stormwaterutility/

SWU Utilities

Who Can Establish a Stormwater Utility?

- The governing body of a single municipality
- The governing body of a single county
- Municipal utilities authority
- Utilities authority
- County improvement authority
- Sewerage authority



Clean stormwater and flood reduction act signed into law in March 2019



Allows formation of stormwater utilities (SWU) to collect fees from property owners in the service area to be dedicated to supporting stormwater operations and improvements



The fees reflect an estimation of how much stormwater runoff the property generates, not based on property tax

CONTACT US



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Bureau of Surface Water and Pretreatment Permitting joe.mannick@dep.nj.gov

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THE TOXIC POLITICS OF STORMWATER UTILITIES

JERSEYWATERWORKS CONFERENCE

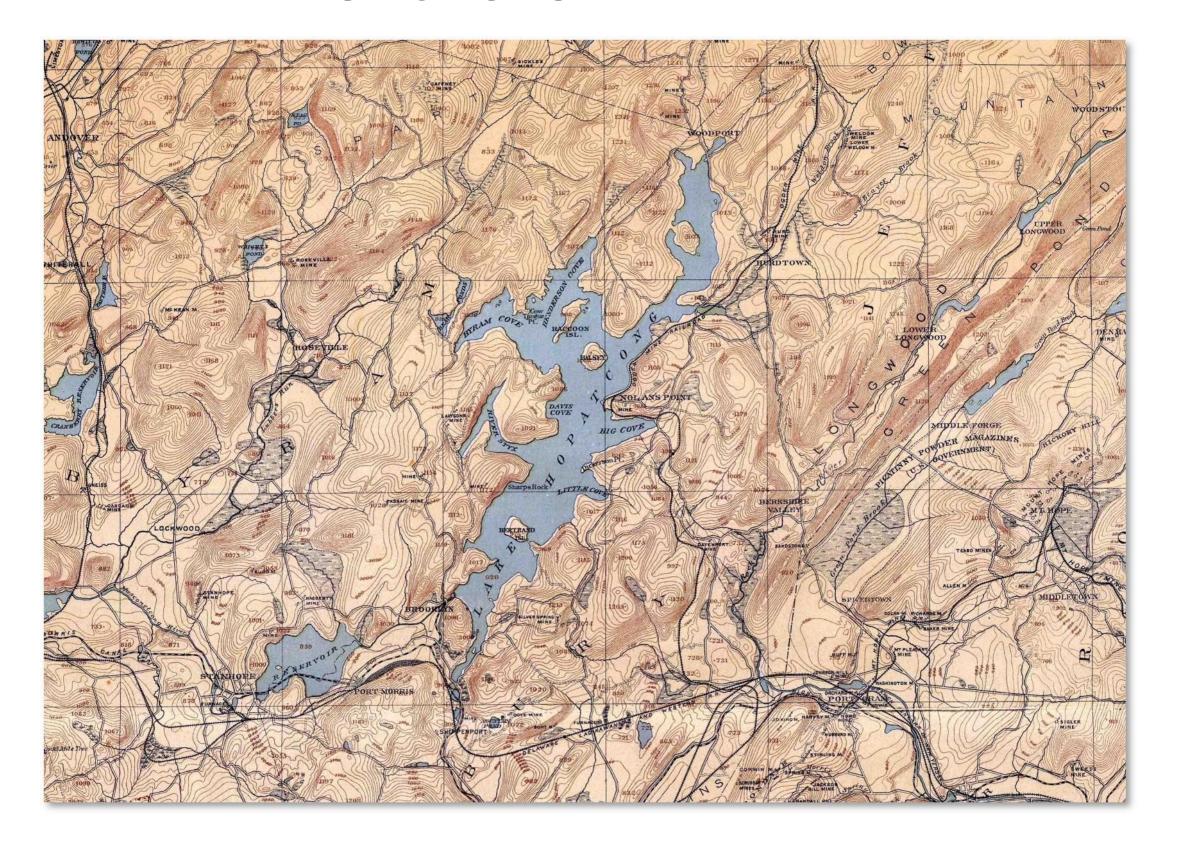
December 13, 2023

Elliott Ruga, Policy & Communications Director

New Jersey Highlands Coalition

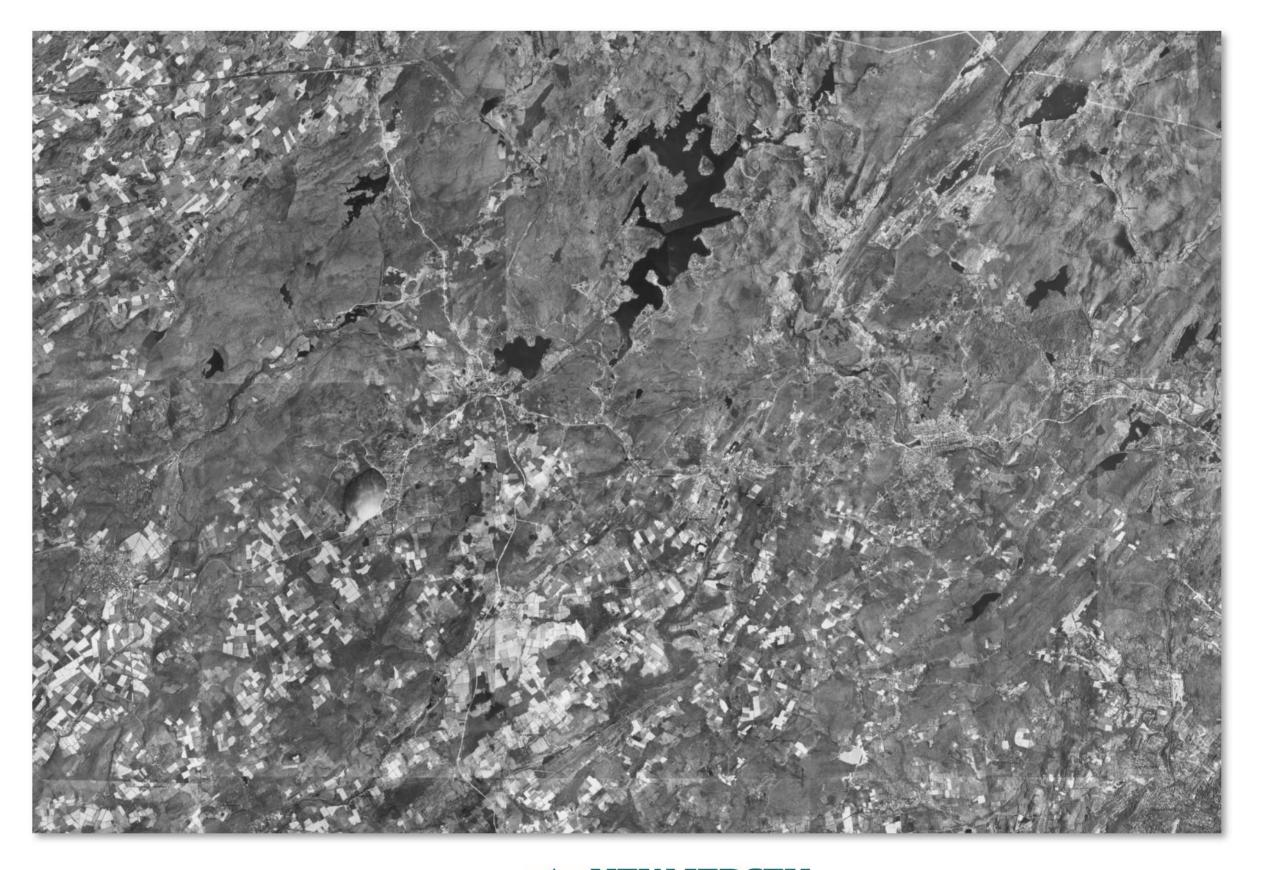
Your water, your future

ONCE UPON A TIME...



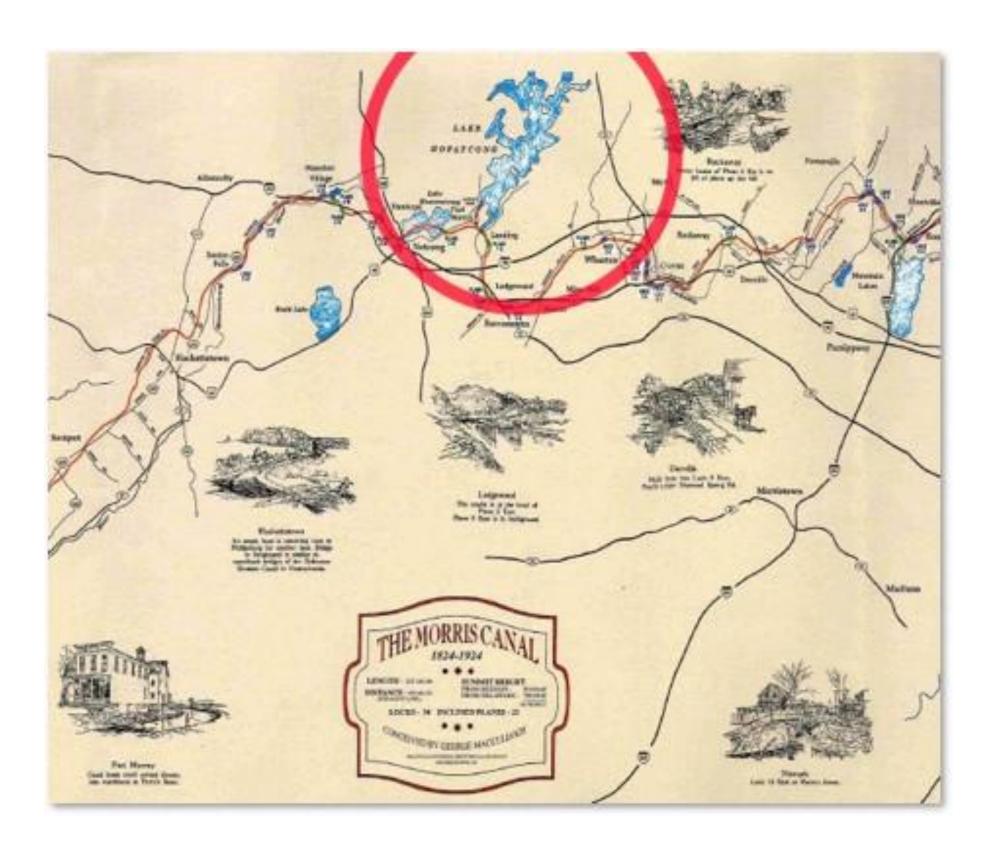


1930 AERIAL



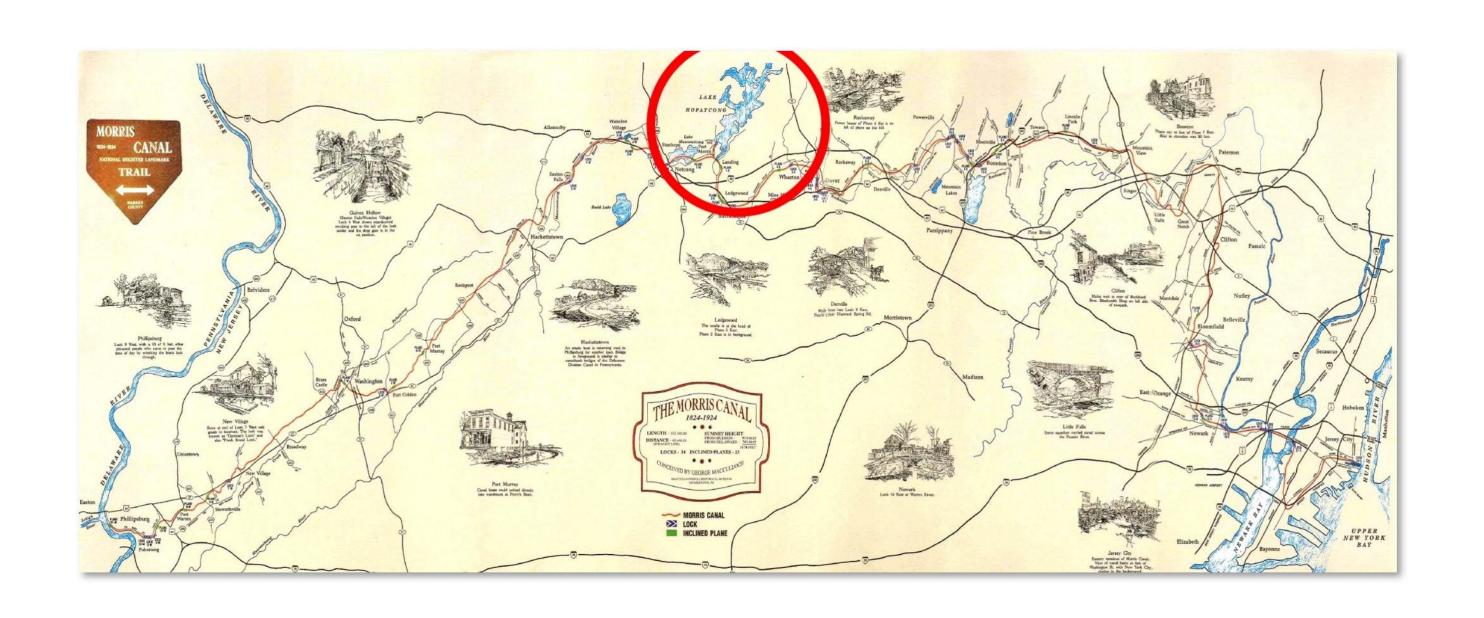


LAKE HOPATCONG: STATE LEVEL INTERESTS





LAKE HOPATCONG: STATE LEVEL INTERESTS





THE GEM OF THE MOUNTAINS















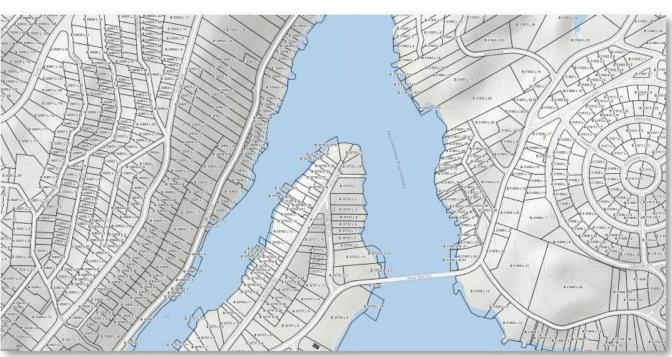












SUMMER WEEKENDS!











THE OLYMPICS: AN 11-PAGE REPORT ON THE LOS ANGELES GAMES, SECTION 5 The New Hork Times variable tonight 72; yester

"All the News That's Fit to Print"

NEW YORK, SUNDAY, JULY 22, 1984

VOL.CXXXIII .. No. 46,113

ONE OF the major environmental and economic challenges of this decade is said to be the preservation of Lake By Leo H. Carney Hopatcong, New Jersey's largest semi-enclosed body of fresh water, which has been succumbing to the ravages

State and Federal environmentalists, municipal and regional officials and consultants are already involved in studies and assessments costing \$1 million. According to the state's Department of Environmental Protection, saving the lake could cost well in excess of \$120 million over the next 10 years or more.

Preservation of the lake has been given a top priority, not only because it is a major resort and recreation area, but also because it is a source of potable water for local communities and an emergency source of water for other parts of northern New Jersey during times of low supply.

The problem with Lake Hopatcong is eutrophication, a natural aging process of aquatic ecosystems characterized by silting and the rising of deltas, low oxygen, turbidity, excessive amounts of algae and weedchoked shorelines. This process normally occurs over many decades or even centuries; it is how lakes and ponds evolve into swamps, marshes, bogs and, finally, meadows.

To compound the problem, the increasing numbers of people who have settled along the periphery of Lake Hopatcong have produced several sources of pollution, including leaking septic systems (there are no sewers), storm-water runoff from paved roads, parking lots, driveways and roofs, heavily fertilized lawns and feces from

In addition, the pollution includes run-off lead from automobiles and motorboat engines, bacteria and nutrients, mostly phosphorus and nitrogen. The last two act as fertilizers that cause a gross profusion of plant growth and

As in most lakes and ponds in northern New Jersey, eutrophication has been hastened by the effects of a concomitant depletion of oxygen. conversions of summer cottages into year-round homes, new housing developments and increased recreational

There are no precise statistics, but Lake Hopatcong State Park, at the southwestern side of the lake, had 152,000 paid admissions last year, a figure that represents the number of cars that entered, not people.

What is certain, according to a recent environmental assessment, is that the lake is highly eutrophic. Robert M. Runyon, chief of the environmental department's Bureau of Monitoring and Data Management, said that nearly half of Hopatong was now 10 feet deep or less. Shallow waters enhance the eutrophication process. doubt for the entire lake averages only 17 1/2 feet.

Mr. Runyon said in an interview last week that the most-recent test samples taken from the middle of the lake contained 15.6 milligrams and that a few areas measured as high as 64 milligrams per cubic meter.

Ideally, Mr. Runyon said, the Lake Hopatcong region - it takes in Jefferson Township, Mount Arlington, Hopatcong, Lake Hopatcong and Landing - needs a \$120 million sewage- treatment system that would reduce the lake's nutrient load by up to 37 percent.

Next, he said, a septic management plan is required to control the amount of waste leaking into the lake, plus the replacement of old septic tanks with more-efficient ones.

The third ingredient for saving the lake, Mr. Runyon said, is a storm- management system that catches the huge volumes of runoff and filters the nutrients, lead and other heavy metals before they flow into the water.

So far, he said, the state has tried to control the weed growth by spraying Diquat, a chemical herbicide that cannot be used near potable water intakes or bathing areas because of its immediate toxicity.

Only 150 to 200 acres of the lake can be sprayed this way each year; however, Mr. Runyon said that a \$203,000 grant from the Federal Environmental Protection Agency, which will be matched by a \$217,000 state appropriation, would result in weed harvesting beginning next summer.

The herbicide merely kills the top of the weeds by blocking photosynthesis. Harvesting, on the other hand, will get to the root of the problem.

Fewer weeds mean a freeing of the lake's coves and back areas. In turn, this means greater circulation and, therefore, a healthier exchange of oxygen through the water columns and a higher rate of pollutant flushing.

Meanwhile, Lake Hopatcong has not died, as some reports have said. Trout still breed there naturally, although there is a state-sponsored stocking program to help nature along. Bass are plentiful and deer, porcupine and other mammals can still be found in the less-developed sections of the region.

Bart H. Wallin, superintendent of the 113-acre state park, said that regular tests for bacteria at bathing beaches along the 39-mile periphery of the lake had indicated no dangers.

According to Mr. Wallin, the southern end of the lake has not been as seriously affected by eutrophication. He said this was evident by the small numbers of what sportsmen call "trash fish" - catfish, suckers and sunfish, for example.

MARCH 18, 2019

SENATE, No. 1073

STATE OF NEW JERSEY

218th LEGISLATURE

Sponsored by:

Senator BOB SMITH

District 17 (Middlesex and Somerset)

Senator CHRISTOPHER "KIP" BATEMAN

District 16 (Hunterdon, Mercer, Middlesex and Somerset) Senator RICHARD J. CODEY

District 27 (Essex and Morris)

Senator LINDA R. GREENSTEIN

District 14 (Mercer and Middlesex)

Assemblyman JOHN F. MCKEON

District 27 (Essex and Morris)

Assemblywoman NANCY J. PINKIN

District 18 (Middlesex)

Assemblywoman CLEOPATRA G. TUCKER

District 28 (Essex)

Co-Sponsored by:

Senators Pou, Ruiz, Assemblymen Karabinchak, Mukherji, Assemblywoman Reynolds-Jackson, Assemblymen Caputo and Calabrese

SYNOPSIS

Authorizes municipalities, counties, and certain authorities to establish stormwater utilities.



New Jersey Lawmakers Are Trying to Tax the Rain

This gives new life to the saying, "when it rains, it pours."

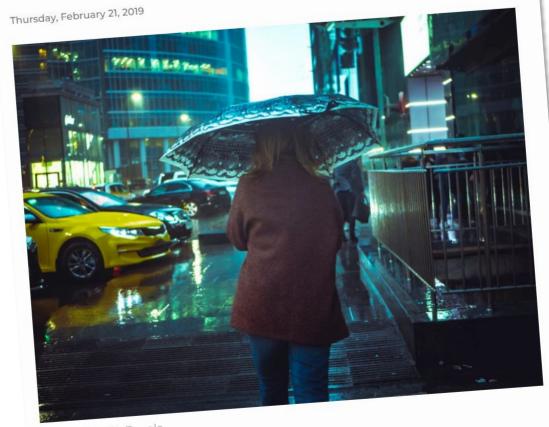


Image Credit: Pexels



Brittany Hunter













S ometimes life mimics fiction. And sometimes life is so much stranger than fiction you have to double check the headlines to ensure they aren't satire. The latest doubletake comes from New Jersey, where, under the guise of environmentalism, local legislators have passed a new tax on wait for it—the rain.

Governments are known for a lack of creativity and an uncanny ability to La base However, when it comes to getting creative with

Ne Why 'rain tax' is bad idea for N.J.

Op-Ed

Thi ByJason Rittle To

Th' By Jason Rittie, Einhorn Harris (Denville) - February 25, 2019



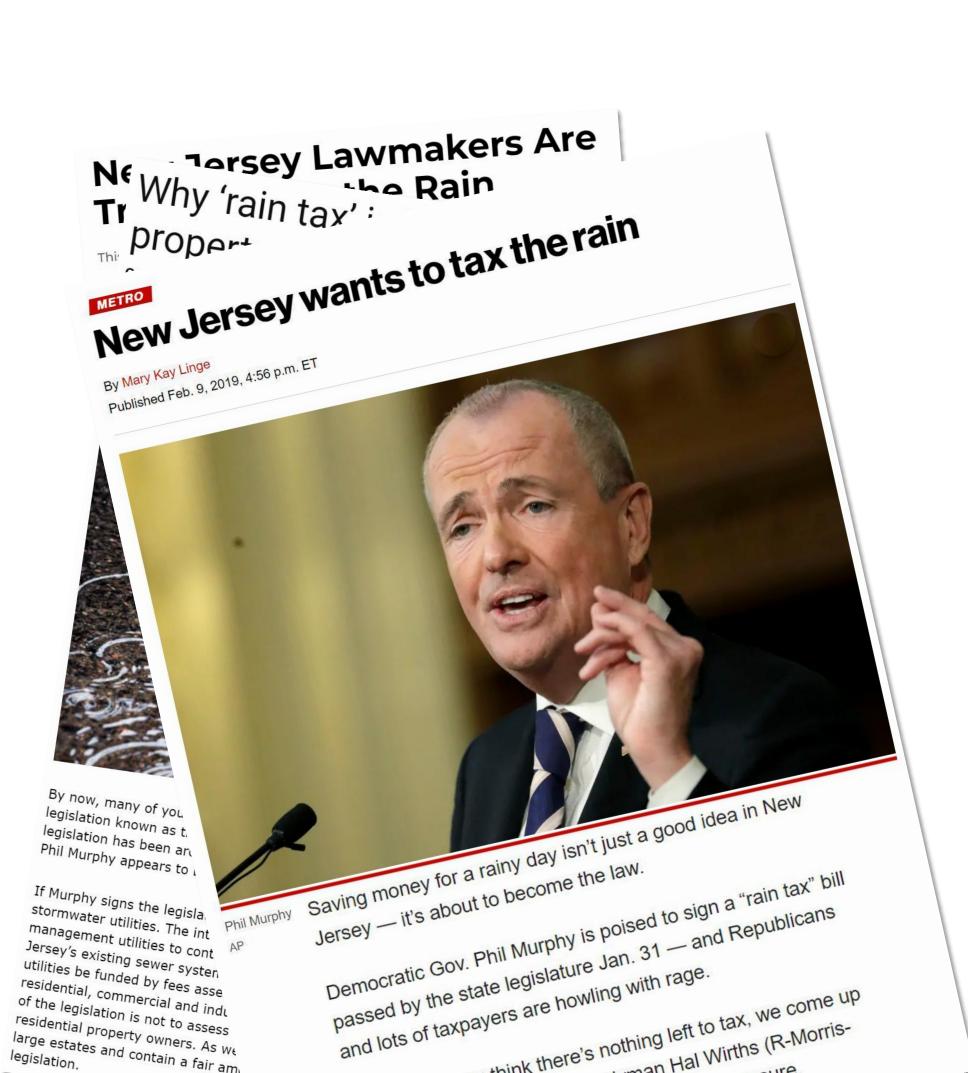






By now, many of you have heard about New Jersey's proposed "rain tax." It is part of pending legislation known as the "Clean Stormwater and Flood Reduction Act." Although the proposed legislation has been around for many years, previously vetoed by former Gov. Chris Christie, Gov.

If Murphy signs the legislation, local municipalities and counties will be allowed to create stormwater utilities. The intent and purpose of the legislation is to allow these stormwater management utilities to control the amount of stormwater runoff and pollutants washing into New Jersey's existing sewer systems and waterways. The legislation also proposes that the stormwater utilities be funded by fees assessed against property owners. The legislation applies to all types of residential, commercial and industrial properties. Although some legislators state that the intent residential property owners. As we know there are residential



JUNE 27, 2019

















SOLUTIONS – EMPHASIS ON SOLVING SYMPTOMS





COMPARISON WITH LAKE MOHAWK

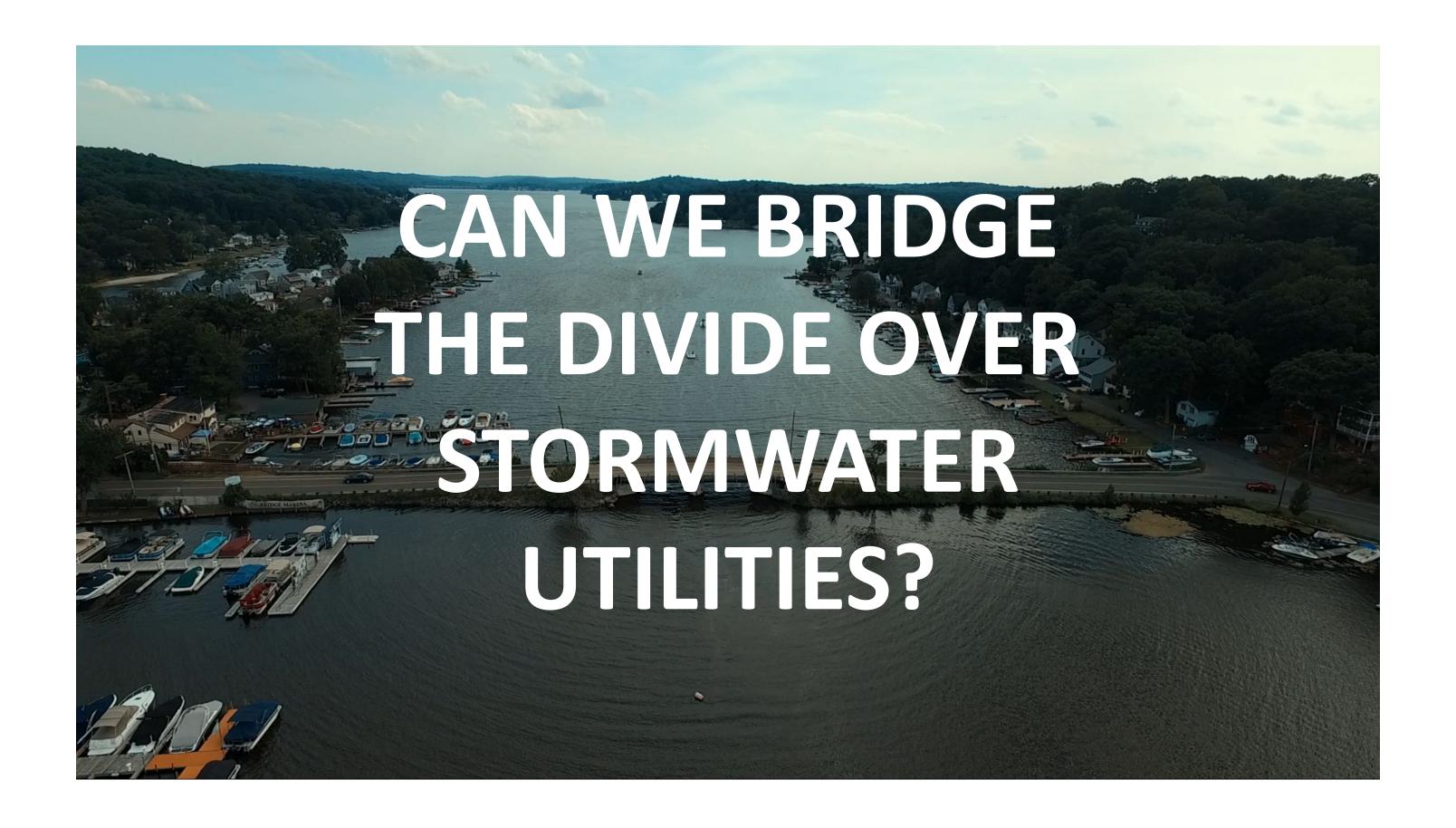




COMPARISON WITH LAKE MOHAWK









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DECEMBER 13, 2023 | THE COLLEGE OF NEW JERSEY, EWING

Thank You!

Stay Involved!

Jersey Water Works









www.jerseywaterworks.org



Five Minutes Left





Two Minutes Left



JERSEY WATERWORKS & CONFERENCE & DECEMBER 13, 2023 | THE COLLEGE OF NEW JERSEY, EWING

Zero Time Left

