

**JOURNAL
OF
THE WATER BUREAU
OF
THE METROPOLITAN DISTRICT
COMMISSION**

FOR THE YEAR
2023

Published by authority of the Commission
And compiled by the
Office of the District Clerk

Membership of the District is made up of the City of Hartford and
The Towns of Bloomfield, Newington, Wethersfield, Windsor,
East Hartford, Rocky Hill and West Hartford

CONTENTS

	Page
Membership.....	A

MINUTES OF THE WATER BUREAU

March 1.....	1
April 24.....	5
June 13.....	19
August 30	50
September 27	64
November 8	67

INDEX

Minutes of the Water Bureau	I-1
-----------------------------------	-----

MEMBERSHIP
OF
THE WATER BUREAU
2023

DOMINIC PANE Chairman, Water Bureau
ANDREW ADIL Vice Chairman, Water Bureau

KYLE ANDERSON

DIANE LEWIS

ANDREW ADIL

JACKIE MANDYCK

CLIFFORD AVERY BUELL

DOMINIC PANE

DIMPLE DESAI

JON PETOSKEY

PETER GARDOW

PASQUALE J. SALEMI

GEORGIANA HOLLOWAY

ALVIN TAYLOR

GARY LEBEAU

MICHAEL CARRIER*

**Special Representative from the Town of New Britain*

MINUTES

OF

MEETINGS OF THE WATER BUREAU

HELD IN 2023

**WATER BUREAU
REGULAR MEETING**
555 Main Street, Hartford
Wednesday, March 1, 2023

Present: Commissioners Andrew Adil, Clifford Avery Buell, Peter Gardow, Jean Holloway, Jackie Gorsky Mandyck, Dominic Pane, Pasquale Salemi, Alvin Taylor, and District Chairman William DiBella (9)

Remote

Attendance: Dimple Desai and Diane Lewis (2)

Absent: Commissioners Kyle Anderson, Jon Petoskey, and Michael Carrier (3)

Also

Present: Commissioner Richard Bush
Commissioner Donald Currey
Commissioner Joan Gentile
Commissioner Allen Hoffman
Scott W. Jellison, Chief Executive Officer
Christopher Stone, District Counsel
John S. Mirtle, District Clerk
Christopher Levesque, Chief Operating Officer
Kelly Shane, Chief Administrative Officer
Robert Barron, Chief Financial Officer
David Rutty, Director of Operations
Robert Schwarm, Director of Information Systems (Remote Attendance)
Tom Tyler, Director of Facilities
David Banker, Senior Project Manager
Michael Curley, Manager of Technical Services
Nick Salemi, Communications Administrator
Carrie Blardo, Assistant to the Chief Executive Officer (Remote Attendance)
Julie Price, Executive Assistant
David Baker, IT Consultant (Remote Attendance)
Wayne Brelsford, IT Consultant (Remote Attendance)
Joseph Szerejko, Independent Consumer Advocate (Remote Attendance)

CALL TO ORDER

The meeting was called to order by Chairman Pane at 5:16 PM.

PUBLIC COMMENTS RELATIVE TO AGENDA ITEMS

No one from the public appeared to be heard.

APPROVAL OF MEETING MINUTES

On motion made by Commissioner Buell and duly seconded, the meeting minutes of November 14, 2022 were approved.

WATER SERVICE TO 145 NORTH ROAD, ROCKY HILL

To: Water Bureau for consideration on March 1, 2023

On January 24, 2023, the District Clerk received a request from the property owners of 145 North Road in Rocky Hill ("Property") to be allowed to connect to the Town of Cromwell's public drinking water system. The closest District water main would require approximately 1,800ft of water main installation for which the District does not have any plans to install water mains in this area. The costs to serve a single property would be cost prohibitive.

Staff reviewed the property owners request and recommend permitting the property owner to connect to the Town of Cromwell's public drinking water system.

It is **RECOMMENDED** that it be:

VOTED: That the Water Bureau recommends to the District Board passage of the following resolution:

RESOLVED: That the District hereby grants permission to the property owner of 145 North Road in Rocky Hill to connect to the public drinking water system of the Town of Cromwell for so long as the District does not have water mains serving the property.

FURTHER
RESOLVED: If at any time in the future the property owners intend to make additional connections to the Town of Cromwell's public drinking water system or subdivide the Property, before making additional connections to Cromwell's public drinking water system, the property owner shall notify the District and the District may evaluate offering water service to the Property or subdivided properties.

FURTHER
RESOLVED: The District does not waive it's Exclusive Service Area by permitting the Property to connect to the Town of Cromwell's public drinking water system.

Respectfully submitted,



Scott W. Jellison
Chief Executive Officer

On motion made by Commissioner Buell and duly seconded, the report was received and resolution adopted by unanimous vote of those present.

ADVANCED METER INFRASTRUCTURE SOLE SOURCE

Senior Project Manager David Banker presented on the various advanced meter pilot programs that the District has recently completed and recommended the implementation of Itron meters as the sole source.

METER INSTALLATION PROGRAM & NO ACCESS SHUTOFFS

Senior Project Manager David Banker updated the Water Bureau on the progress of the meter installation program and no-access shutoffs.

SOUTH WINDSOR EXCLUSIVE SERVICE AREA ISSUE WITH CT WATER

Senior Project Manager David Banker presented to the Water Bureau on an issue recently discovered where Connecticut Water is providing water service to a small portion of South Windsor that is within the District's Exclusive Service Area.

Commissioner Buell exited the meeting at 6:18 PM.

ELECTRIC VEHICLE CHARGING STATIONS

Chief Operating Officer Chris Leveque discussed the electric vehicle charging stations at District recreation areas, such as the reservoir public parking areas.

Commissioner Lewis exited the meeting at 6:23 PM.

COMMISSIONER REQUESTS FOR FUTURE AGENDA ITEMS

Chief Executive Officer Scott Jellison informed the Water Bureau that there would be an additional Water Bureau meeting in the near future to discuss recreation for the summer, UCMR5 testing for PFAS, and a standalone meeting for master planning for water treatment plants.

Commissioner Mandych requested a tour of the water treatment facilities for Commissioners before the master planning discussion.

Commissioner Gardow wants to discuss the economic development rate earlier this year and to take a look at how it is working for the District.


OPPORTUNITY FOR GENERAL PUBLIC COMMENTS

Judy Allen, of West Hartford, suggested that based on a comment made by a Commissioner during last year's budget process, that a discussion about the economic development rate should start much sooner this year rather than waiting until the budget presentation at the end of the year. She also informed the Bureau that she is a member of Central Water Utility Coordinating Committee (WUCC) and would be happy to answer any questions from Commissioners. Lastly, in relation to the discussion on EV charging stations, she informed the Bureau that there was legislation last year to buy back PFAs firefighting foam.

ADJOURNMENT

The meeting was adjourned at 6:51 PM

ATTEST:



John S. Mirtle
District Clerk

April 24, 2023

Date of Approval

**WATER BUREAU
SPECIAL MEETING**
555 Main Street, Hartford
Monday, April 24, 2023

Present: Commissioners Peter Gardow, Jean Holloway, Diane Lewis, Dominic Pane, Alvin Taylor, and District Chairman William DiBella (6)

Remote

Attendance: Commissioners Andrew Adil and Jacqueline Mandyck (2)

Absent: Commissioners Kyle Anderson, Clifford Avery Buell, Dimple Desai, Jon Petoskey, Pasquale Salemi and Michael Carrier (5)

Also

Present: Commissioner John Avedisian
Commissioner Richard Bush
Commissioner Donald Currey (Remote Attendance)
Commissioner Joan Gentile
Commissioner Bhupen Patel (Remote Attendance)
Commissioner David Steuber (Remote Attendance)
Scott W. Jellison, Chief Executive Officer
Christopher Stone, District Counsel
John S. Mirtle, District Clerk
Christopher Levesque, Chief Operating Officer
Kelly Shane, Chief Administrative Officer
David Rutty, Director of Operations
Robert Schwarm, Director of Information Systems (Remote Attendance)
Tom Tyler, Director of Facilities
Michael Curley, Manager of Technical Services
Julie Price, Executive Assistant
David Baker, IT Consultant (Remote Attendance)
Wayne Brelsford, IT Consultant (Remote Attendance)
Dylan Pecego, IT Consultant (Remote Attendance)
Joseph Szerejko, Independent Consumer Advocate (Remote Attendance)

CALL TO ORDER

The meeting was called to order by Chairman Pane at 4:03 PM.

PUBLIC COMMENTS RELATIVE TO AGENDA ITEMS

No one from the public appeared to be heard.

APPROVAL OF MEETING MINUTES

On motion made by Commissioner Gardow and duly seconded, the meeting minutes of March 1, 2023 were approved.

**VETERAN'S TERRACE PHASE 3, EAST HARTFORD
ABANDONMENT OF WATER MAIN**

To: Water Bureau for consideration on April 24, 2023

On March 3, 2023, the District received a letter from Salvatore R. Carabetta of Veteran's Terrace Communities III LLC, Owner and Developer of Veteran's Terrace Phase 3, requesting that the Metropolitan District abandon a portion of the existing water mains within the former Columbus Street Extension right of way and Michael Avenue in East Hartford, as shown on the accompanying map. The purpose of the request is to enable the construction of a new residential development known as Veteran's Terrace Phase 3. The Owner will in turn build new public water mains to service the development.

The proposal submitted includes the abandonment of approximately 400 feet of 8-inch cast iron water main, as shown on the aforementioned map. The existing water mains were originally constructed in a public roadway; therefore, no easements exist. The existing water mains were built in 1957 by the East Hartford Housing Authority under a Developer's Permit-Agreement with the Metropolitan District.

From an engineering standpoint, the abandonment of the existing water mains will not have a negative impact on the District's water distribution system, and no hardship or detriment would be imposed on others. The proposed new water mains will be constructed within the subject parcel within easements under a new Developer's Permit-Agreement.

It is therefore RECOMMENDED that it be

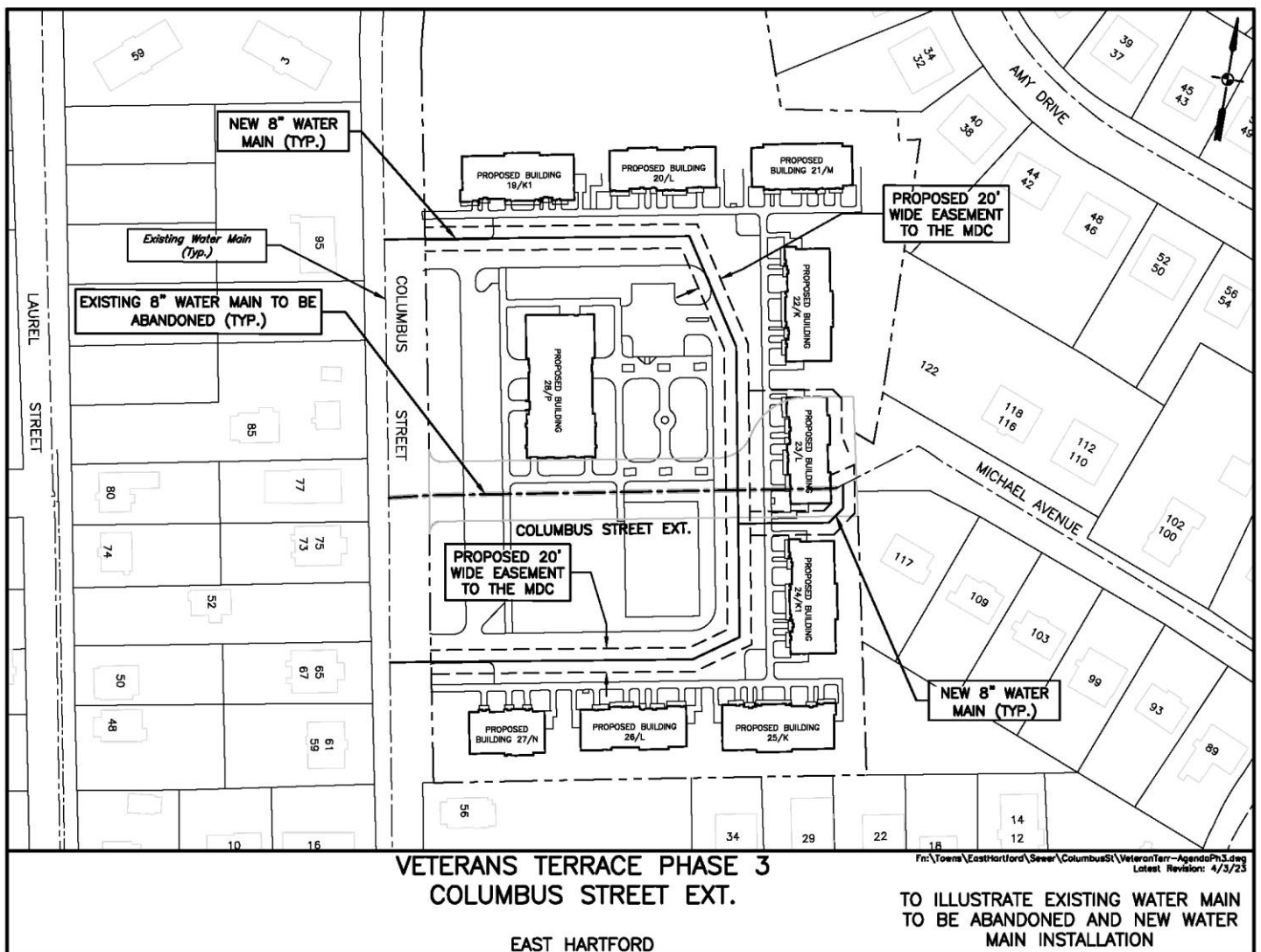
VOTED: That the Water Bureau recommends to the District Board passage of the following resolution:

RESOLVED: That the Chairman or Vice Chairman of the District Board be authorized to execute the abandonment of the existing water mains within the former Columbus Street Extension right of way and Michael Avenue in East Hartford, as shown on the accompanying map.

Respectively submitted,



Scott W. Jellison
Chief Executive Officer



The Metropolitan District
555 Main Street
Hartford CT, 06103

March 3, 2023

Re: Veterans Terrace Extension
Request to Abandon Water Main
Michael Ave to Columbus Circle

To whom it may concern,

The undersigned is the anticipated owner of the improvements to be known as Veterans Terrace Phase 3. In partnership with the East Hartford Housing Authority, we will be demolishing all structures and a select number of existing site utilities as part of a state funded rehabilitation of the property to provide quality affordable apartments to low-income residents.

The rehabilitation will include the demolition and removal of all (8) existing buildings and the new construction of (9) new residential buildings and (1) community center. In order to facilitate the aforementioned rehabilitation, the existing Columbus Circle Extension will be abandoned, and a the existing 8" water main will be abandoned to allow re-routing of the main to service the project (reference attached drawings C-1.0 & MDC water main as-built drawing 22-241A).

This letter shall serve as our official request to abandon a select portion of the above-referenced existing 8" water main.

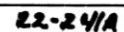
Thank you for your attention to this issue. And should you have any questions or concerns, please do not hesitate to contact us.

Very Truly Yours

Veterans Terrace Communities III LLC
Veterans Terrace MM III LLC
Its Managing Member
Investors Network LLC
A Managing Member

By: 

Salvatore R. Carabetta



On motion made by District Chairman DiBella and duly seconded, the report was received and resolution adopted by unanimous vote of those present.

Commissioner Lewis entered the meeting in person at 4:16 PM after originally joining virtually.

FIFTH UNREGULATED CONTAMINANT MONITORING RULE

Director of Facilities Tom Tyler presented to the Water Bureau on the recent testing under the fifth unregulated contaminant monitoring rule, noting that the testing in January 2023 indicated no detectable FPAS or Lithium in any of the samples.



Water Bureau

Unregulated **C**ontaminant **M**onitoring **R**ule

April 24, 2023

Background

- EPA uses the Unregulated Contaminant Monitoring Rule (UCMR) to collect data for contaminants that are suspected to be present in drinking water and do not have health-based standards set under the Safe Drinking Water Act (SDWA).
- Basic elements of program:
 - Every five years EPA develops a new list of priority unregulated contaminants in drinking water
 - 30 is maximum number of contaminants that can be included
 - 100% of all large public drinking water systems serving more than 10,000 people must participate, 4 quarterly samples
 - Sample every “point of entry” – where treated drinking water enters distribution system
 - Results are stored in a national database
 - EPA used the data to determine whether to regulate particular contaminants in the interest of protecting public health

How does EPA determine which contaminants are selected?

1. Identify contaminants that:
 - 1) Were not monitored under prior UCMR cycles
 - 2) May occur in drinking water
 - 3) Are expected to have a completed, validated drinking water method in time for rule proposal.
2. Considerations:
 - 1) Availability of health assessments or other health-effects information
 - 2) Public interest
 - 3) Active use
 - 4) Availability of occurrence data.
 - 5) Consider stakeholder input
 - 6) Cost-effectiveness of the potential monitoring approaches
 - 7) Implementation factors (e.g., laboratory capacity)
 - 8) Further evaluates health effects, occurrence, and persistence/mobility data

UCMR 5

- The 5th iteration of the UCMR program is underway.
- Published on December 27, 2021 .
- Analyze for 30 chemical contaminants:
 - 29 PFAS compounds
 - Lithium (a metal)
- 4 quarterly samples must be taken between January 2023 and December 2025.
 - The District decided to begin as early as possible, collecting samples January, April, July & October 2023.
- Laboratories must use approved analytical methods developed by EPA & be approved by EPA to conduct testing.
 - The District uses Eurofins for PFAS testing & reporting.

NOTE: the UCMR 5 list is not the same as EPA's Proposed Maximum Contaminant Levels for 6 PFAS compounds

Results

- Sample results from January 2023 sampling of the District's three points of entry (2 WHF basins and 1 RES 6) indicate ***no detectable PFAS or Lithium in any of the samples.***
- Samples will be collected at each entry point on April, July & October 2023.
- The contract lab still cannot upload the results into EPA's database due to EPA problems.
- The lab can detect to the 'parts per trillion' level.

What is a part per trillion?

- One part per trillion (ppt) denotes one part per 1,000,000,000,000 (12 zeros) parts.
- Equal to one second in 31,700 years (*one year has 31,536,000 seconds*).
- Equal to about **thirty seconds out of every million years**, or 0.0024 seconds in a 75 year lifespan.
- Equivalent of **one drop of water in 23,100,000 gallons of water**.
- Traveling **6 inches out of a 93 million-mile** journey.
- A stack of one trillion dollar bills would reach nearly **68,000 miles** into space
- The average distance between the earth and the moon is approximately 240,000 miles. One trillionth of this distance is 15 thousands of an inch, about the diameter of a human hair.

Note: all comparisons found on internet – not verified

EPA vs. CT DPH PFAS Levels

- EPA proposed draft Maximum Contaminant Levels (MCL) in March 2023. Results from UCMR 5 will be used to support development of new water quality standards.
- CTDPH previously published “Action Level”, but these are recommendations, not legal requirements that must be met.

Analyte	EPA Draft MCL (parts per trillion, ppt, ng/L)	CT Action Level (parts per trillion, ppt, ng/L)
Perfluorooctanoic acid (PFOA)	4	16
Perfluorooctane sulfonic acid (PFOS)	4	10
Perfluorononanoic acid (PFNA)	1.0 (unitless) Hazard Index*	12
Perfluorohexane sulfonic acid (PFHxS)	1.0 (unitless) Hazard Index*	49
Perfluorobutanesulfonic acid (PFBS)	1.0 (unitless) Hazard Index*	-
Hexafluoropropylene oxide dimer acid (HFPO-DA / GenX)	1.0 (unitless) Hazard Index*	-

*The Hazard Index is a tool used to evaluate potential health risks from exposure to chemical mixtures. For more information, please see [EPA's Fact Sheets](#).

Summary

- The Districts 1st quarterly test results were excellent – no detectible PFAS or lithium.
- These results are no guarantee that the other three 2023 sampling events will produce similar results.
- Additional sample test results will be shared with Water Bureau.
- The District's active management of our 30,000 areas of watershed lands for many decades is evident in the test results.

Supporting info on all UCMRs & Contaminants

UCMR 1 - 26 contaminants between 2001 and 2003

- 2,4-dinitrotoluene
- 2,6-dinitrotoluene
- Acetochlor
- DCPA mono-acid degradate
- DCPA di-acid degradate
- 4,4'-DDE
- EPTC
- Molinate
- MTBE
- Nitrobenzene
- Perchlorate
- Terbacil
- 1,2-diphenylhydrazine

- 2-methyl-phenol
- 2,4-dichlorophenol
- 2,4-dinitrophenol
- 2,4,6-trichlorophenol
- Diazinon
- Disulfoton
- Diuron
- Fonofos
- Linuron
- Nitrobenzene
- Prometon
- Terbufos
- Aeromonas

UCMR 2 - 25 contaminants between 2008 and 2010

- Dimethoate
- Terbufos sulfone
- 2,2',4,4'-tetrabromodiphenyl ether (BDE-47)
- 2,2',4,4',5-pentabromodiphenyl ether (BDE-99)
- 2,2',4,4',5,5'-hexabromobiphenyl (HBB)
- 2,2',4,4',5,5'-hexabromodiphenyl ether (BDE-153)
- 2,2',4,4',6-pentabromodiphenyl ether (BDE-100)
- 1,3-dinitrobenzene
- 2,4,6-trinitrotoluene (TNT)
- Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
- Acetochlor
- Alachlor
- Metolachlor

- Acetochlor ethane sulfonic acid (ESA)
- Acetochlor oxanilic acid (OA)
- Alachlor ethane sulfonic acid (ESA)
- Alachlor oxanilic acid (OA)
- Metolachlor ethane sulfonic acid (ESA)
- Metolachlor oxanilic acid (OA)
- N-nitroso-diethylamine (NDEA)
- N-nitroso-dimethylamine (NDMA)
- N-nitroso-di-n-butylamine (NDBA)
- N-nitroso-di-n-propylamine (NDPA)
- N-nitroso-methylethylamine (NMEA)
- N-nitroso-pyrrolidine (NPYR)

UCMR 3 - 30 contaminants between 2013 and 2015

1,2,3-trichloropropane
 1,3-butadiene
 chloromethane (methyl chloride)
 1,1-dichloroethane
 bromomethane (methyl bromide)
 chlorodifluoromethane (HCFC-22)
 bromochloromethane (halon 1011)
 1,4-dioxane
 vanadium
 molybdenum
 cobalt
 strontium
 chromium3
 chromium-6
 chlorate

perfluorooctanesulfonic acid (PFOS)
 perfluorooctanoic acid (PFOA)
 perfluorononanoic acid (PFNA)
 perfluorohexanesulfonic acid (PFHxS)
 perfluoroheptanoic acid (PFHpA)
 perfluorobutanesulfonic acid (PFBS)
 17- β -estradiol
 17- α -ethynylestradiol (ethinyl estradiol)
 16- α -hydroxyestradiol (estriol)
 equilin
 estrone
 testosterone
 4-androstene-3,17-dione
 enteroviruses
 noroviruses

UCMR 4 - 30 chemical contaminants between 2018 and 2020

total microcystin (total of next 6)
 microcystin-LA
 microcystin-LF
 microcystin-LR
 microcystin-LY
 microcystin-RR
 microcystin-YR
 nodularin
 anatoxin-a
 cylindrospermopsin
 germanium
 manganese
 alpha-hexachlorocyclohexane
 chlorpyrifos
 dimethipin
 ethoprop

oxyfluorfen
 profenofos
 tebuconazole
 total permethrin (cis- & trans-)
 tribufos
 HAA5
 HAA6Br
 HAA9
 1-butanol
 2-methoxyethanol
 2-propen-1-ol
 butylated hydroxyanisole
 o-toluidine
 quinoline
 total organic carbon (TOC)
 bromide

UCMR 5 - 30 chemical contaminants between 2023 and 2025

1 of 2

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)
4,8-dioxa-3H-perfluorononanoic acid (ADONA)
hexafluoropropylene oxide dimer acid (HFPO DA)
nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
perfluorobutanoic acid (PFBA)
perfluorobutanesulfonic acid (PFBS)
1H,1H, 2H, 2H-perfluorodecane sulfonic acid (8:2FTS)
perfluorodecanoic acid (PFDA)
perfluorododecanoic acid (PFDoA)
perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)
perfluoroheptanesulfonic acid (PFHpS)
perfluoroheptanoic acid (PFHpA)
1H,1H, 2H, 2H-perfluorohexane sulfonic acid (4:2FTS)
perfluorohexanesulfonic acid (PFHxS)

UCMR 5 - 30 chemical contaminants between 2023 and 2025

2 of 2

perfluorohexanoic acid (PFHxA)
perfluoro-3-methoxypropanoic acid (PFMPA)
perfluoro-4-methoxybutanoic acid (PFMBA)
perfluorononanoic acid (PFNA)
1H,1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)
perfluorooctanesulfonic acid (PFOS)
perfluorooctanoic acid (PFOA)
perfluoropentanoic acid (PFPeA)
perfluoropentanesulfonic acid (PFPeS)
perfluoroundecanoic acid (PFUnA)
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)
perfluorotetradecanoic acid (PFTA)
perfluorotridecanoic acid (PFTTrDA)
lithium

LAKE McDONOUGH RECREATION

Chief Operating Officer Chris Levesque reported on recreation for the upcoming season at Lake McDonough. He reported that there had been zero applications submitted for lifeguard

positions so the beach will not be open in 2023. Boating and passive recreation will be available.

Commissioner DiBella moved the following resolution:

Season passes for non-residents will be \$100. Season passes for residents will be \$40. For those using a season pass, two boats/kayaks can be used on one season pass.

Day passes for non-residents will be \$20. Day Passes for residents will be \$10.

The resolution passed by unanimous vote of those present.

COMMISSIONER REQUESTS FOR FUTURE AGENDA ITEMS

Commissioner Gardow requested there be a discussion regarding the industrial rate. He previously asked for this information at the March Water Bureau meeting and would like it to be included on the agenda for the regular meeting of Water Bureau in May.

OPPORTUNITY FOR GENERAL PUBLIC COMMENTS

No one from the public appeared to be heard.

ADJOURNMENT

The meeting was adjourned at 4:43 PM

ATTEST:



John S. Mirtle
District Clerk

August 30, 2023

Date of Approval

**WATER BUREAU
SPECIAL MEETING**
555 Main Street, Hartford
Tuesday, June 13, 2023

Present: Commissioners Andrew Adil, Peter Gardow, Jean Holloway, Dominic Pane and Alvin Taylor (5)

Remote

Attendance: Commissioner Clifford Avery Buell (1)

Absent: Commissioners Kyle Anderson, Dimple Desai, Diane Lewis, Jon Petoskey, Pasquale Salemi, Michael Carrier and District Chairman William DiBella (7)

Also

Present: Commissioner Richard Bush
Commissioner Joan Gentile (Remote Attendance)
Scott W. Jellison, Chief Executive Officer
John S. Mirtle, District Clerk
Christopher Levesque, Chief Operating Officer
Kelly Shane, Chief Administrative Officer (Remote Attendance)
Jamie Harlow, Director of Human Resources (Remote Attendance)
Susan Negrelli, Director of Engineering
David Rutty, Director of Operations
Robert Schwarm, Director of Information Systems (Remote Attendance)
Tom Tyler, Director of Facilities
Jessica Coelho, Project Manager
David Banker, Senior Project Manager
Jason Waterbury, Manager of Engineering Services
Jim Randazzo, Manager of Water Treatment and Supply (Remote Attendance)
Ray Baral, Assistant Manager of Water Treatment
Chris Parisan, Water Treatment Plant Superintendent
Trevor Roberts, Water Treatment Plant Operations Supervisor
Carrie Blardo, Assistant to the Chief Executive Officer (Remote Attendance)
Julie Price, Executive Assistant
David Baker, IT Consultant (Remote Attendance)
Dylan Pecego, IT Consultant (Remote Attendance)
Joseph Szerejko, Independent Consumer Advocate (Remote Attendance)

CALL TO ORDER

The meeting was called to order by Chairman Pane at 4:07 PM.

NO QUORUM PRESENT

District Clerk John S. Mirtle called the roll and declared that a quorum of the Water Bureau was not present.

PUBLIC COMMENTS RELATIVE TO AGENDA ITEMS

No one from the public appeared to be heard.

APPROVAL OF MEETING MINUTES

The approval of meeting minutes was postponed due to lack of quorum.

Commissioner Holloway entered the meeting at 4:08 PM.

RAW WATER MASTER PLAN

Director of Engineering Susan Negrelli introduced the Raw Water Master Plan discussion which was led by Project Manager Jessica Coelho. The presentation outlined the work over the last six years to prepare the raw water master plan and gave the Water Bureau recommendations on how to move forward with the plan.



Special Water Bureau Meeting

June 13, 2023

Agenda

- Master Planning Project
 - Objective
 - Team
 - Timeline
 - Overview & History of the MDC Raw Water System
 - Overview & History of MDC Water Treatment Facilities
- System Priorities & Limitations
- Transmission Main Alternatives
- Treatment Plant Alternatives
- Condition Assessments
- Final Evaluation of Alternatives
- Recommendation:
 - Implementation Plan

2

Objective

To efficiently plan and prioritize the next 30+ years of capital spending based on raw water transmission, treatment, and distribution systems needs and our long-term goals.

3

Master Planning Project

Team

- Engineering & Planning
- Water Treatment & Supply
- AECOM (consultant)



4

Master Planning Project

2017-2018

- Hired Consultant
- Workshops
- Site Visits
- Initial Plan

2019

Condition
Assessments

2020-2021

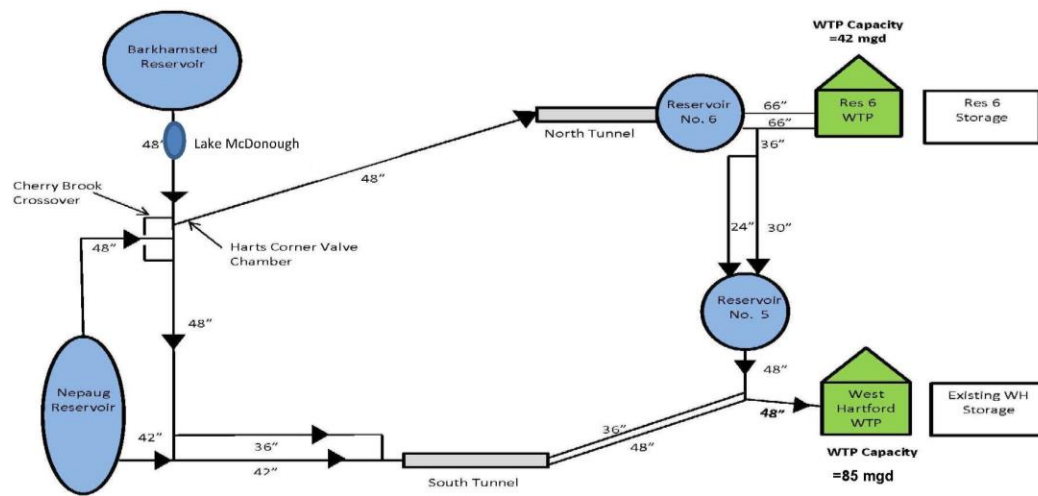
- AECOM
Presentations
- AECOM Revised
Reports

2022-2023

- Risk Matrix
- Project Phasing
- Financial Analyses
- Final Alternative
Selection

5

MDC Raw Water System Overview



6

Nepaug 1 Pipeline (1913)



7

Barkhamsted-Nepaug Pipeline (1940)



8

South Talcott Mountain Conduit (1913)



9

West Hartford Water Treatment Plant Filter Beds 1-8 (1917)

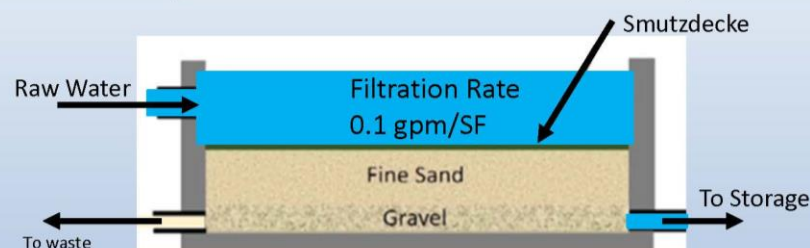


10

Master Planning Project

Treatment Plants - Existing Conditions

WH WTP - SLOW SAND FILTERS



Actual Capacity: 74 MGD

Harrow a filter every 6-8 wks

Recondition a filter every 11 yrs

Downtime 30-60 days

Recent Max Production: 62.5 MGD

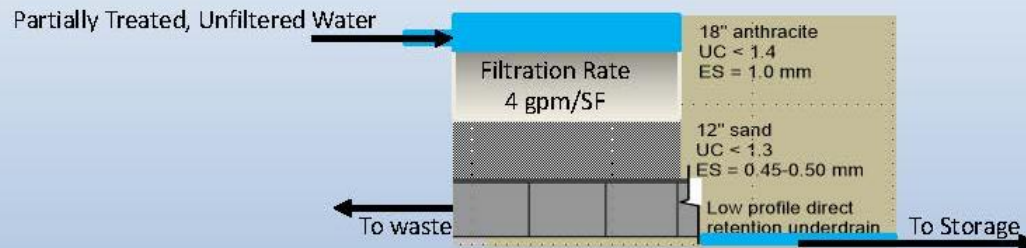
Typical Usage: 36 MGD, about 70% of MDC consumption

11

Master Planning Project

Treatment Plants - Existing Conditions

RES6 WTP - RAPID FILTRATION



Design Capacity: 42 MGD
Backwash filter every 72-96 hours (seasonal)
Downtime 15-30 minutes
Recent Max Production: 30 MGD
Typical Usage: 8-15 MGD, about 30% of MDC consumption

12

System Priorities & Limitations

Transmission - Pipelines under bodies of water

- Farmington River Crossings (Nepaug Upper & Lower, Cherry Brook Upper & Lower)
- Lake McDonough Crossing
- *Expensive and/or disruptive failures

13

Farmington River Crossing



14

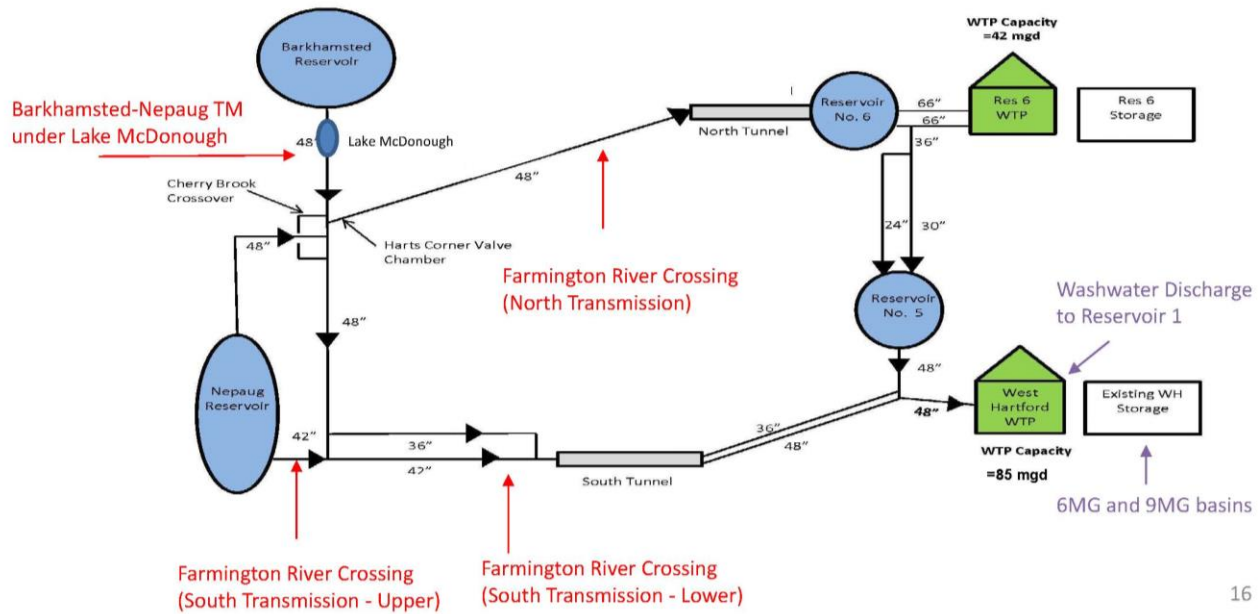
System Priorities & Limitations

Treatment – West Hartford WTP

- Requires large footprint
- Requires extensive labor for cleaning and harrowing beds
- Future Regulatory compliance
 - Treatment Process Limitations (organics → DBPs, Chlorine Residuals)
 - Filter washwater discharge
 - 6 & 9 MG Basins at West Hartford WTP

15

MDC Raw Water System



Transmission Decisions:

1. No Action (Maintain Status Quo)
2. Rehabilitate
3. Replace
4. Abandon

Treatment Decisions:

1. No Action (Maintain Status Quo)
2. Rehabilitate
3. Replace on same site
4. Replace in new location

INITIAL
EVALUATION

Transmission Main Alternatives

1) **No Action** (Maintain Status Quo)

Repair leaks and breaks as needed

*N/A if building a plant in Reservoir 6 – capacity restraints

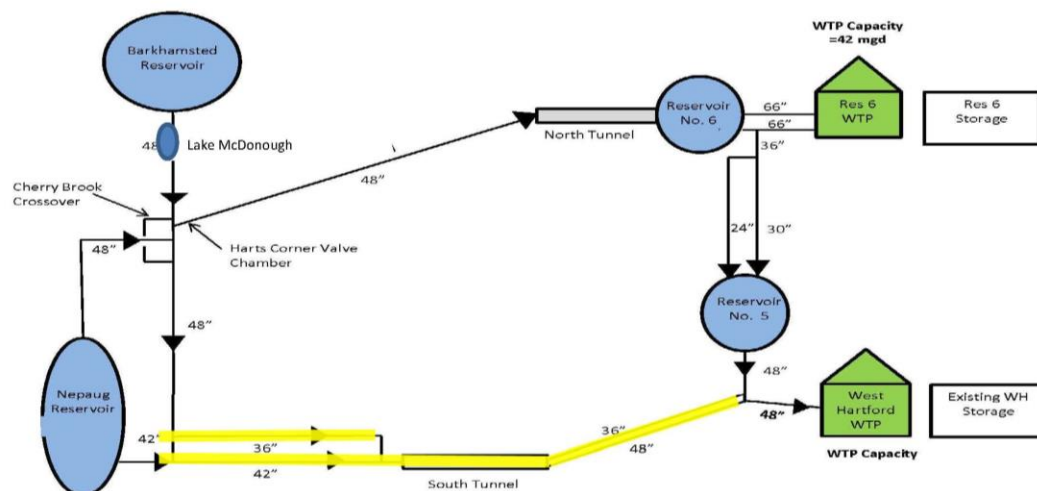
2) **Rehabilitate** via trenchless technology

3) **Replace** all transmission mains

4) **Abandon** transmission mains in place

18

MDC Raw Water System



19

Treatment Plant Alternatives

- 1) **No Action** (Maintain Status Quo)
- 2) **Rehabilitate** (Structurally) to Extend Useful Life
Technology stays the same
- 3) **Replace** – Build a new plant on West Hartford site
- 4) **Replace** – Build a new plant at Reservoir 6 site
Treatment solely in the north
→ Transmission requires capacity upgrades
→ Transmission requires pump station

20

		A = Upgrades All* Transmission	B = Abandon Southern Transmission
<div>Rehab WHF Plant</div> <div>New Plant Res 6</div> <div>New Plant WH</div>	1A	<ul style="list-style-type: none"> • Structural Upgrades to WH Water Treatment Plant • Upgrade All Existing Transmission 	1B <ul style="list-style-type: none"> • Structural Upgrades to WH Water Treatment Plant • New <u>Northern</u> Transmission • Abandon <u>Southern</u> Transmission
	2A	<ul style="list-style-type: none"> • New Water Treatment Plant at Res 6 • Abandon WH Water Treatment Plant • New Raw Water Pump Station • New Treated Water Pump Station • Upgrade All Existing Transmission 	2B <ul style="list-style-type: none"> • New Water Treatment Plant at Res 6 • Abandon WH Water Treatment Plant • New Raw Water Pump Station • New Northern Transmission Mains • Abandon <u>Southern</u> Transmission
	3A	<ul style="list-style-type: none"> • Replace WH Water Treatment Plant • Upgrade All Existing Transmission 	3B <ul style="list-style-type: none"> • Replace WH Water Treatment Plant • New Northern Transmission Mains • Abandon <u>Southern</u> Transmission

*For comparison purposes. Later slides will evaluate more transmission options

21

Next Steps

22

Condition Assessments

- Transmission Mains
 - Barkhamsted-Nepaug Pipeline
 - Lake McDonough
- South Talcott Mountain Tunnel and Conduits
- West Hartford Water Treatment Plant

23

Condition Assessments Barkhamsted-Nepaug Pipeline

- Visual Inspection
- Ultrasonic Thickness Testing
 - Underground piping
 - Accessible pipes
- Interior Pipe Inspection



Photo: Exposed Dresser Coupling

24

Condition Assessments Barkhamsted-Nepaug Pipeline



Photo: Steel Mains within Saville Dam Gatehouse

25

Condition Assessments Barkhamsted-Nepaug Pipeline



26

Condition Assessments Barkhamsted-Nepaug Pipeline



Figure 19: Image of joint at Station 03+41 (left); Image of transition at Station 12+17 (right)

27

Condition Assessments South Talcott Mountain Tunnel & Conduits

Manned Inspection

- Visual inspections and concrete core testing



Photos: Sampling and Inspecting within Tunnel

28

Condition Assessments WH Water Treatment Plant

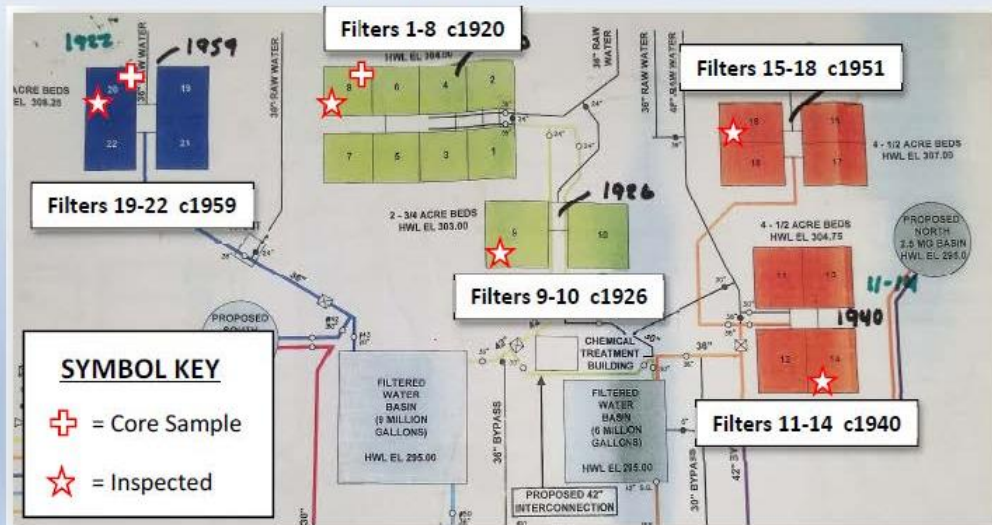
- Concrete cores
- Visual inspections
 - pipe gallery
 - slow sand filter beds
- Ultrasonic Thickness Testing
 - Accessible pipes within gallery
 - Underground piping



Photo: Corroded Pipe

29

Condition Assessments WH Water Treatment Plant



30

Condition Assessments WH Filters Water Treatment Plant



Photos: Test Pit Location Map; Exposed Yard Piping

31

Condition Assessment Conclusions

Transmission Mains

Defects Discovered

- Exterior coating on dam piping
- Known aging appurtenances



Photo: Damaged Exterior Coating

Recommended Improvements

- Remove & replace coating (abatement involved)
- Continued assessments
- Appurtenance replacements/modifications

Extend Useful Life 20-30 Years: ± \$2.5 Million

32

Condition Assessment Conclusions

Tunnel & Conduits

Defects Discovered

- Damaged overflow weir deck
- Minor root intrusion

Recommended Improvements

- Repair overflow weir deck
- Monitor & Assess



Photo: Rotted Wooden Protective Deck at Weir

Extend Useful Life 20-30 Years : ± \$200,000

33

Condition Assessment Conclusions

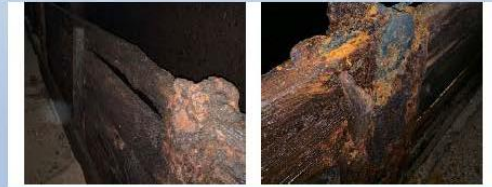
West Hartford Water Treatment Plant

Defects Discovered

- Treatment process for filter wash-water
- Pipe gallery fixtures (corroded and tuberculated), aging valves, non-compliant tanks and aging filter beds

Recommended Improvements

- New treatment process
- Replacement/repairs
- Continued assessments



Photos: Baffle deterioration

Extend Useful Life 20-30 Years : ± \$90 Million

34

Final Evaluation - Priority Projects

- Design & Construct 5MG tank at WH WTP
- Reservoir 6 WTP Upgrades & Maintenance
- Design & Construct New and/or Redundant Pipelines
 - Farmington River Crossing - Upper
 - Elizabeth Park Transmission Main within the distribution system
- Lake McDonough By-pass System
- Transmission Appurtenances
- New Water Treatment Facility
 - Preliminary Study & Pilot Design

35

	A = Upgrades All* Transmission		B = Abandon Southern Transmission	
Rehab WHF Plant	ELIMINATED			
New Plant Res 6	ELIMINATED		2B	<ul style="list-style-type: none">• New Treatment Plant at Res 6• New Raw Water Pump Station• New Northern Transmission Mains• Abandon <u>Southern</u> Transmission
New Plant WH	3A	<ul style="list-style-type: none">• Replace WH Water Treatment Plant• Upgrade All Existing Transmission	ELIMINATED	

*For comparison purposes. Later slides will evaluate more transmission options

36

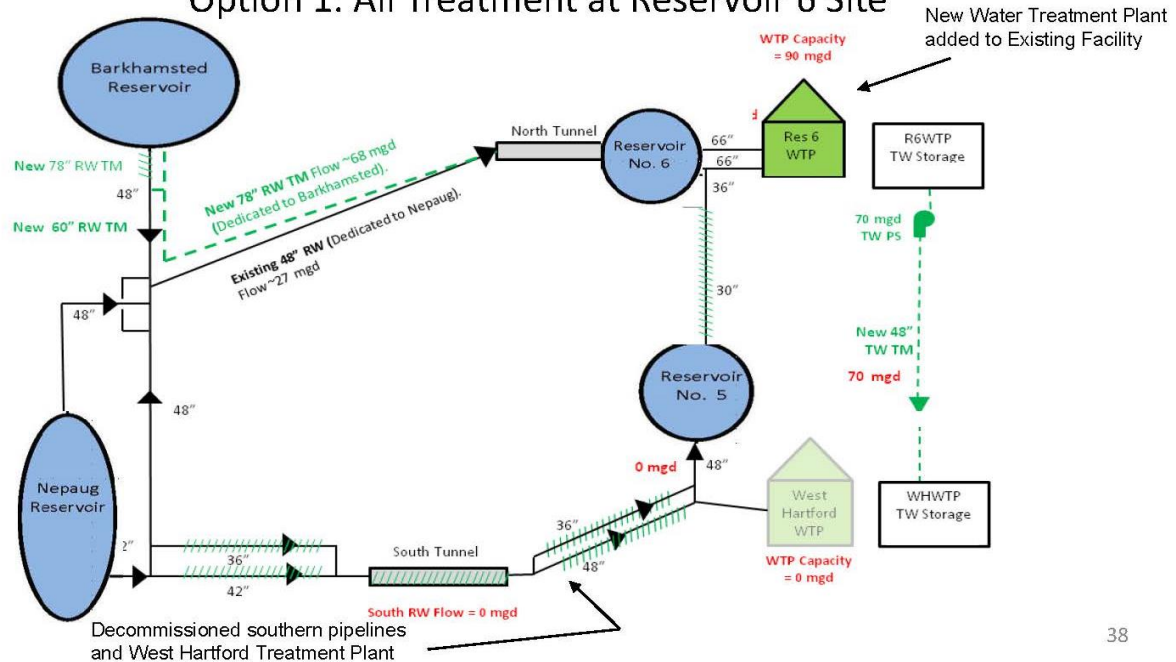
Final Evaluation

<u>Option 1 (2B)</u>	<u>Option 2 (3A)</u>
Install a new water treatment plant at Reservoir 6 site	Replace the treatment plant at West Hartford site
Abandon Southern Transmission Mains	Upgrade Southern Transmission Mains
Install new Transmission Mains w/ increased capacity to the north	Upgrade remaining Transmission Mains
Install New Pump Station & Force Mains	

37

Alternative Evaluation

Option 1: All Treatment at Reservoir 6 Site



Alternative Evaluation

Option 1: All Treatment at Reservoir 6 Site

Treatment Upgrades

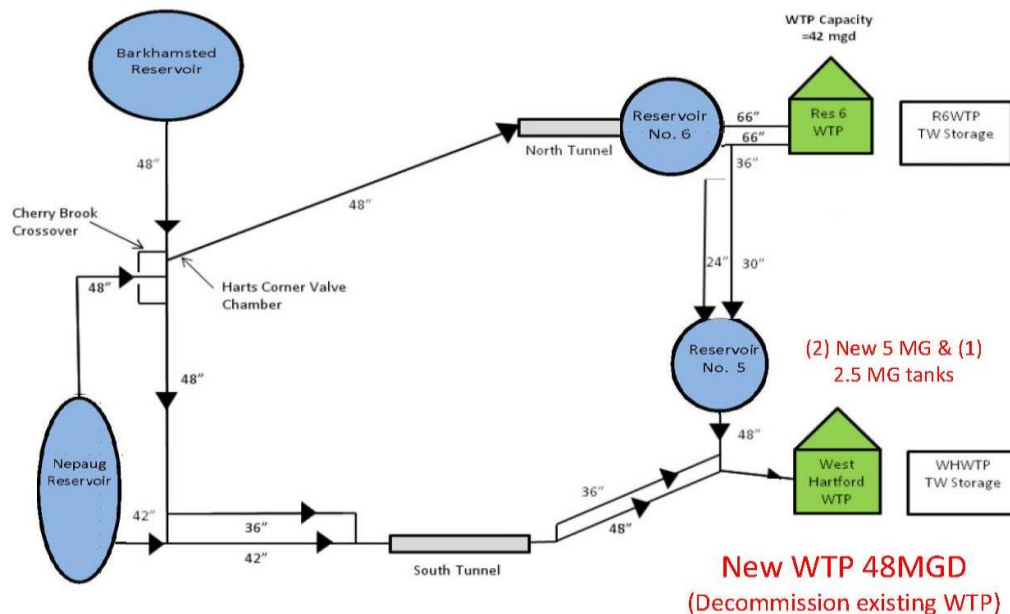
- New 48 MGD plant (@ Res6)
 - (2) 1.45 MG chlorine contact storage tanks
 - Backwash pump station
 - Electrical and chemical buildings
 - DAF sludge holding tank
 - Spent wash water equalization tank and pump station
- WH WTP Improvements:
 - 2.5 MG tank
 - (2) 5 MG tanks
 - Demolish slow sand filters, buildings, & piping

Transmission Upgrades

- New Transmission Main Installations:
 - 78-in Barkhamsted to Lake
 - 60-in to Harts Corner
 - 78-in to North Talcott Mountain Tunnel
- New Treated Water Pump Station
 - 4 turbine pumps (1 standby) 900 HP
 - 23.2MGD @160' TDH variable speed drive
- New 48-in force main from Res6 WTP to WH storage
- Abandon Southern Transmission

Alternative Evaluation

Option 2: Treatment at both WHF and Reservoir 6



Alternative Evaluation

Option 2: Treatment at both WH and Reservoir 6

Treatment Upgrades

- New 48 MGD plant (@ WH)
 - 2 (5) MG tank
 - (3) residual lagoons
 - Backwash pump station
 - Electrical and chemical buildings
 - Decant/recycle pump station
 - 2.5 MG tank
 - (2) spent wash water ponds
 - Demolish filters

Transmission Upgrades

- New Transmission Main Installations:
 - 36-in & 48 in Supply Lines
 - River Crossings
 - 42-in Nepaug 3
 - 48-in Barkhamsted-Nepaug
 - 48-in Cherry Brook
 - 36-in Cherry Brook crossover
 - 48-in Collinsville Bypass
- As-needed Upgrades

Alternative Evaluation

Reservoir 6 Existing Water Treatment Facility Recommended Upgrades

- Underdrain Replacement
- Main filter building generator & HVAC
- Decant building valve replacement
- Flocculator & Sluice gate replacements
- Intake house sluice gate replacement
- Raw Water Vault butterfly valve replacement
- Misc. yard piping rehab

42

Treatment Alternative Locations

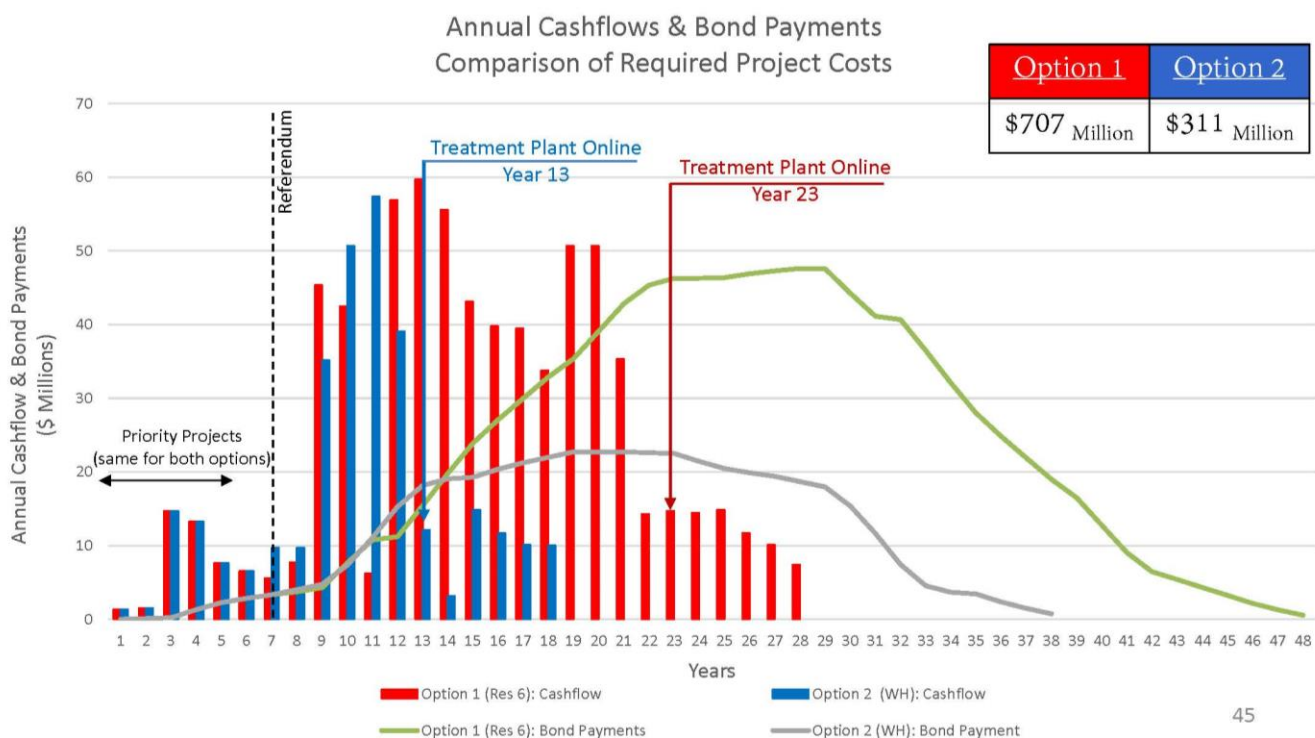
Option 1: Reservoir 6 WTP Site	Option 2: West Hartford WTP Site
Required before WTP operational <ul style="list-style-type: none"> • increased capacity • pump station 	N/A – changes to transmission layout not required
New plant by Year 2046	New plant by Year 2036
Centralized treatment location	Multiple treatment locations

43

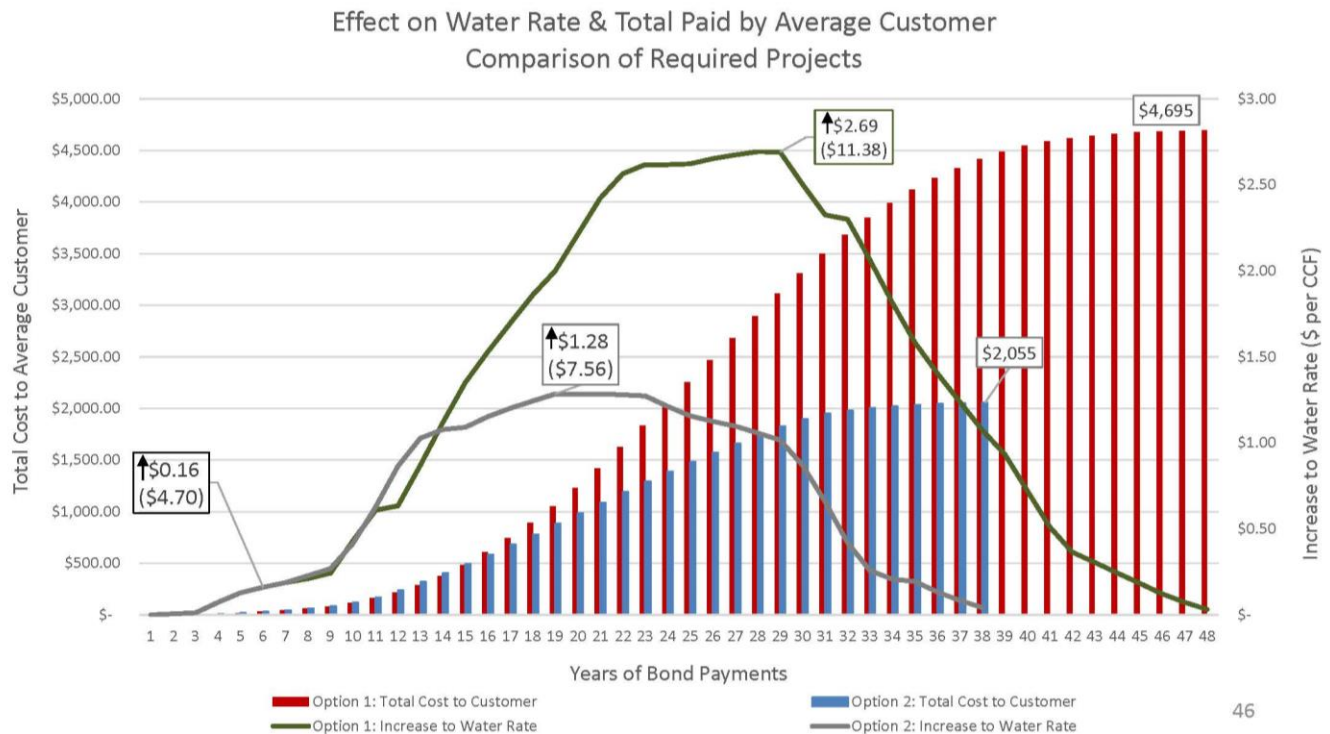
Cost Comparison Priority & Required Projects

Option 1 Reservoir 6 WTP Site			Option 2 West Hartford WTP Site		
Priority Projects	(Years 0-6)	\$47M	Priority Projects	(Years 0-6)	\$47M
Required Projects	(Years 7-28)		Required Projects	(Year 7-18)	
Plant & Tanks			Plant & Tanks		
Remaining River Crossings			Remaining River Crossings		
Interim WH WTP Upgrades					
Increased Transmission Capacity					
<i>Referendum up to \$600M</i>		\$660M	<i>Referendum up to \$200M</i>		\$264M
Subtotal: Required Projects		\$707M	Subtotal: Required Projects		\$311M

44



45



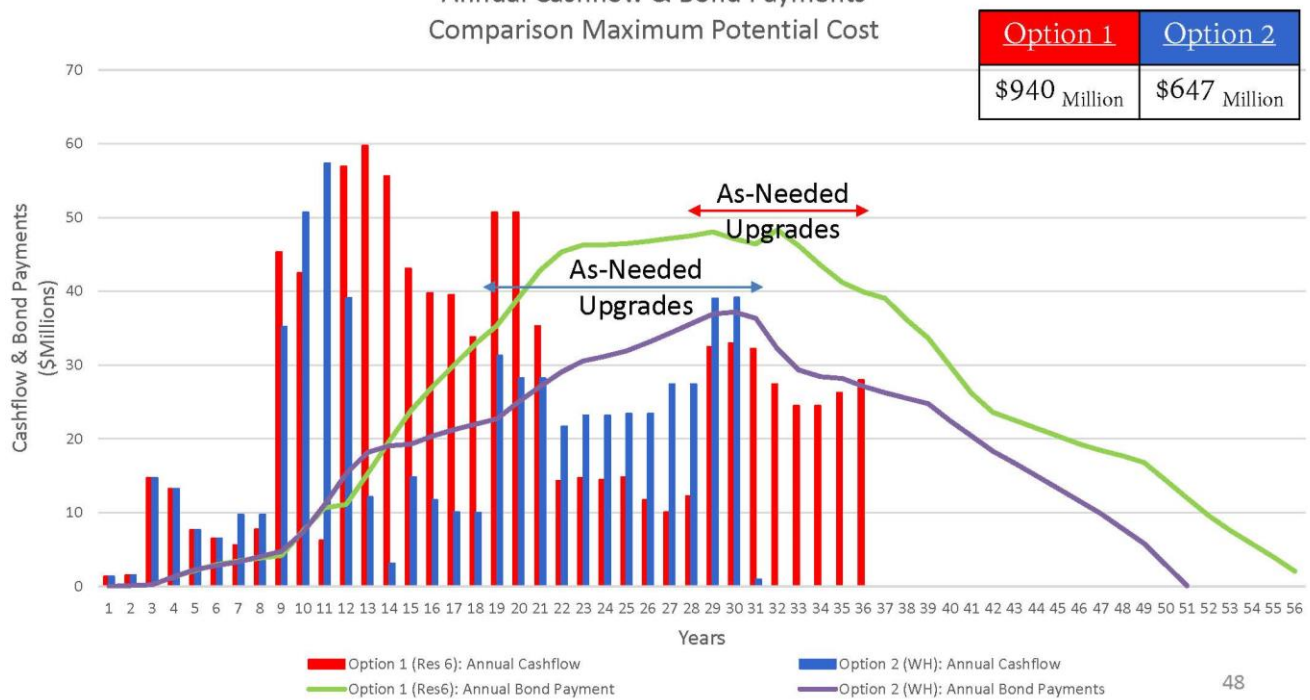
46

Cost Comparison Required & Priority Projects *Plus* Condition-Dependent Projects

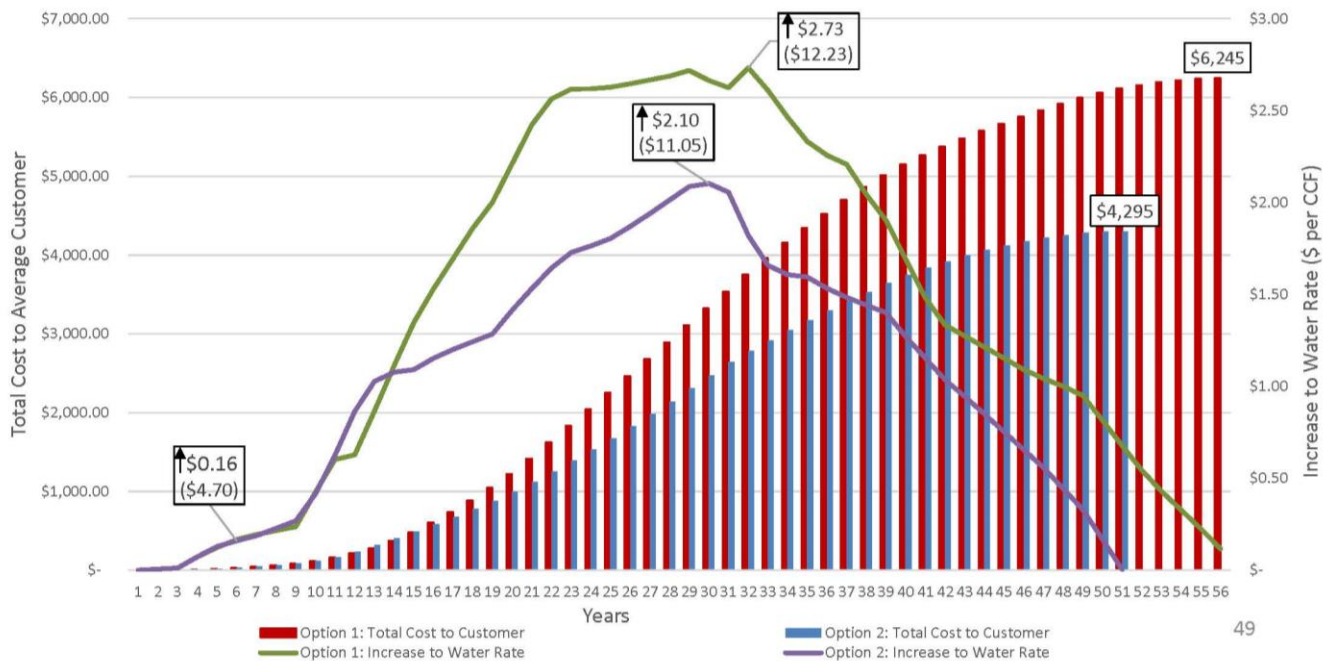
Option 1 Reservoir 6 WTP Site		Option 2 West Hartford WTP Site	
Subtotal: Required Projects	\$707M	Subtotal: Required Projects	\$311M
Condition-Dependent Transmission Upgrades (Years 29-35)	\$0-233M	Condition-Dependent Transmission Upgrades (Years 19-30)	\$0-336
Maximum Total: All Projects	Up to \$940M	Maximum Total: All Projects	Up to \$647M

47

Annual Cashflow & Bond Payments
Comparison Maximum Potential Cost



Effect on Water Rate & Total Paid by Average Customer
Comparison of Maximum Potential Cost



Annual Operating Costs

Plant	Existing Operations	Option 1	Option 2
West Hartford WTP			
Energy, Labor, Chemicals, Equipment	\$3.0M	<\$0.5M	\$2.8M
Reservoir 6 WTP			
Energy, Labor, Chemicals, Equipment	\$1.5M	\$5.3M	\$1.7M
Total	\$4.5M	\$5.8M	\$4.5M

50

Recommendation

Install a new Water Treatment Plant in **West Hartford**.

- ✓ Lower cost
- ✓ Flexibility of schedule
- ✓ Address priorities sooner

51




Implementation Plan Phase 1: 2023-2029

\$47M

Project	Year
Design & Construct 5MG tank at WH WTP	2023-2025
Reservoir 6 WTP Upgrades & Maintenance	2023-2024
Design & Construct "Upper" River Transmission Main X-ing	2024-2026
Design & Construct Lake McDonough By-pass	2024-2026
Design & Construct Elizabeth Park Transmission Main	2025-2027
Transmission Appurtenances	2025-2027
<i>Referendum</i>	2028
New Water Treatment Facility (Preliminary Design)	2024-2029

Implementation Plan Phase 2: 2030-2043

\$264M

Project	Year
Construct New Treatment Plant & Abandon ex.	2029-2035
Design & Construct Supply Lines	2031-2034
Design & Construct Storage Tanks	2035-2038
Design & Construct "Lower" River Crossing	2036-2040
Reservoir 6 WTP Upgrades	2035-2040
Planning – Transmission Mains*	2041-2043


*35 miles of Transmission Mains remaining after river crossings are built

54

Recommended Plan Future Phases: 20+ Years

Remaining 35 miles of Transmission Mains

- Continue condition assessments to determine:
 - No action (status quo)
 - Replacement
 - Trenchless structural lining
 - Combination of options

\$0-336M

55

Conclusion

Proceed with Option 2 as follows:

- Complete priority projects
- Prepare for a future referendum
- Design & build a new plant in West Hartford
- Address remaining priority infrastructure
- Continue to assess aging infrastructure

56

Thank you!

57

OPPORTUNITY FOR GENERAL PUBLIC COMMENTS

No one from the public appeared to be heard.

COMMISSIONER REQUESTS FOR FUTURE AGENDA ITEMS

Commissioner Pane requested Chief Executive Officer Scott Jellison briefly discuss the possible future sale of land in Glastonbury that will be on a future meeting agenda. CEO Jellison explained that the new town manager of Glastonbury called the MDC asking if there was any interest in selling some of the District owned land in Glastonbury to the town that was removed from a prior sale a few years ago. There remains approximately 188 acres owned by the District, the largest parcel being approximately 133 acres at the Cold Brook Reservoir.

Commissioner Pane stated that the Water Master Plan be discussed again at the next Water Bureau meeting so that other Commissioners are able to see portions of the presentation and ask any additional questions.

Commissioner Gardow requested that the industrial rate discussion be added onto the next agenda, since it had been on the May meeting agenda but the meeting was cancelled due to lack of quorum.

ADJOURNMENT

The meeting was adjourned at 5:25 PM

ATTEST:



John S. Mirtle
District Clerk

August 30, 2023

Date of Approval

**WATER BUREAU
REGULAR MEETING**
555 Main Street, Hartford
Wednesday, August 30, 2023

Present: Commissioners Andrew Adil, Dimple Desai, Peter Gardow, Jean Holloway, Dominic Pane, Pasquale Salemi, Alvin Taylor and District Chairman William DiBella (8)

**Remote
Attendance:** (0)

Absent: Commissioners Kyle Anderson, Clifford Avery Buell, Diane Lewis, Jon Petoskey and Special Representative Michael Carrier (5)

Also

Present: Commissioner Richard Bush
Commissioner John Gale
Commissioner Byron Lester (Remote Attendance)
Scott W. Jellison, Chief Executive Officer
Christopher Stone, District Counsel
John S. Mirtle, District Clerk
Christopher Levesque, Chief Operating Officer (Remote Attendance)
Kelly Shane, Chief Administrative Officer
Robert Barron, Chief Financial Officer (Remote Attendance)
Susan Negrelli, Director of Engineering
David Ruddy, Director of Operations
Tom Tyler, Director of Facilities
Jessica Coelho, Project Manager
David Banker, Senior Project Manager
Jason Waterbury, Manager of Engineering Services
Ray Baral, Assistant Manager of Water Treatment
Jeff King, Construction Manager
Nick Salemi, Communications Administrator
Julie Price, Executive Assistant
David Baker, IT Consultant (Remote Attendance)
Joseph Szerejko, Independent Consumer Advocate (Remote Attendance)

CALL TO ORDER

The meeting was called to order by Chairman Pane at 5:37 PM.

PUBLIC COMMENTS RELATIVE TO AGENDA ITEMS

Judy Allen spoke on Agenda Item # 4 “Economic Development Rate” and stated that our water and sewer ordinances never use the term “economic development rate.” Instead, they are

discount rates for large volume users. Ms. Allen looked at Regional Water Authority's economic development rate for customers the local towns and cities.

Independent Consumer Advocate Joseph Szerejko spoke on Agenda Item #4 "Economic Development Rate" and reminded the Bureau of comments made by the prior Independent Consumer Advocate David Silverstone in February 2020 that the rate should have fixed terms for incentives, conditioning the applicability of the rate on yearly consumption requirements, making it applicable beyond large users or distressed businesses, and making it more malleable so it can apply in more circumstances. Attorney Szerejko noted that one of the rationales in 2020 was that MDC was the only water company in Connecticut that did not have a large user rate. He urged that the rate be reexamined and potentially repealed.

APPROVAL OF MEETING MINUTES

On a motion made by Commissioner Gardow and duly seconded, the Meeting Minutes of April 24, 2023 and June 13, 2023 were passed by unanimous vote of those present.

ECONOMIC DEVELOPMENT RATE

Senior Project Manager David Banker and Chief Executive Officer Scott Jellison led a discussion about the economic development rate, specifically historical usage by Niagara Bottling.

RAW WATER MASTER PLAN

Project Manager Jessica Coelho led the Raw Water Master Plan discussion. The presentation outlined the work over the last six years to prepare the raw water master plan and gave the Water Bureau recommendations on how to move forward with the plan.



Water Bureau Meeting, Agenda Item #5

August 30, 2023

1

Progress to Date

2017-2018

- Hired Consultant
- Workshops
- Site Visits
- Initial Plan

2019

- Condition Assessments

2020-2021

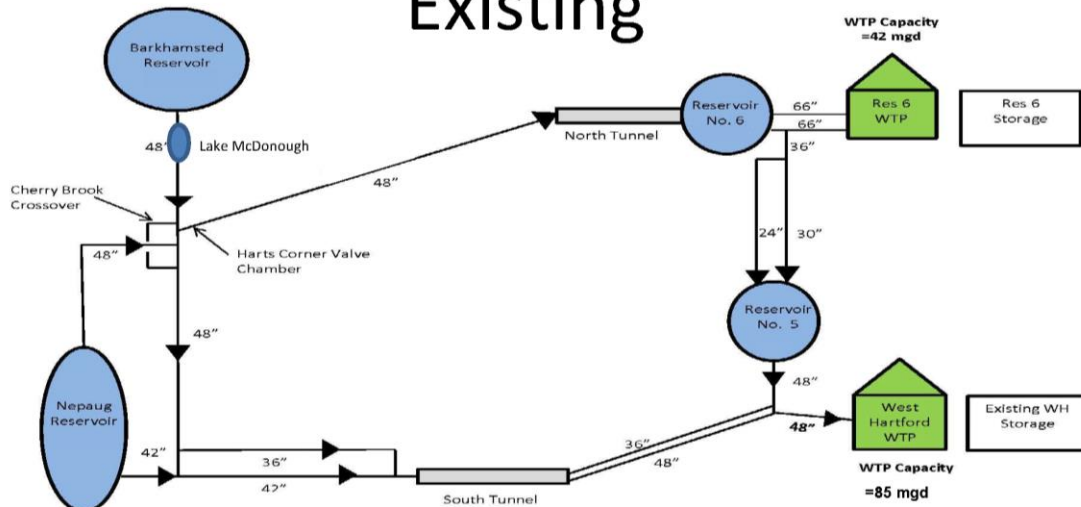
- AECOM Presentations
- AECOM Revised Reports

2022-2023

- Risk Matrix
- Project Phasing
- Financial Analyses
- Final Alternative Selection
- Bureau Presentation
- Next Steps

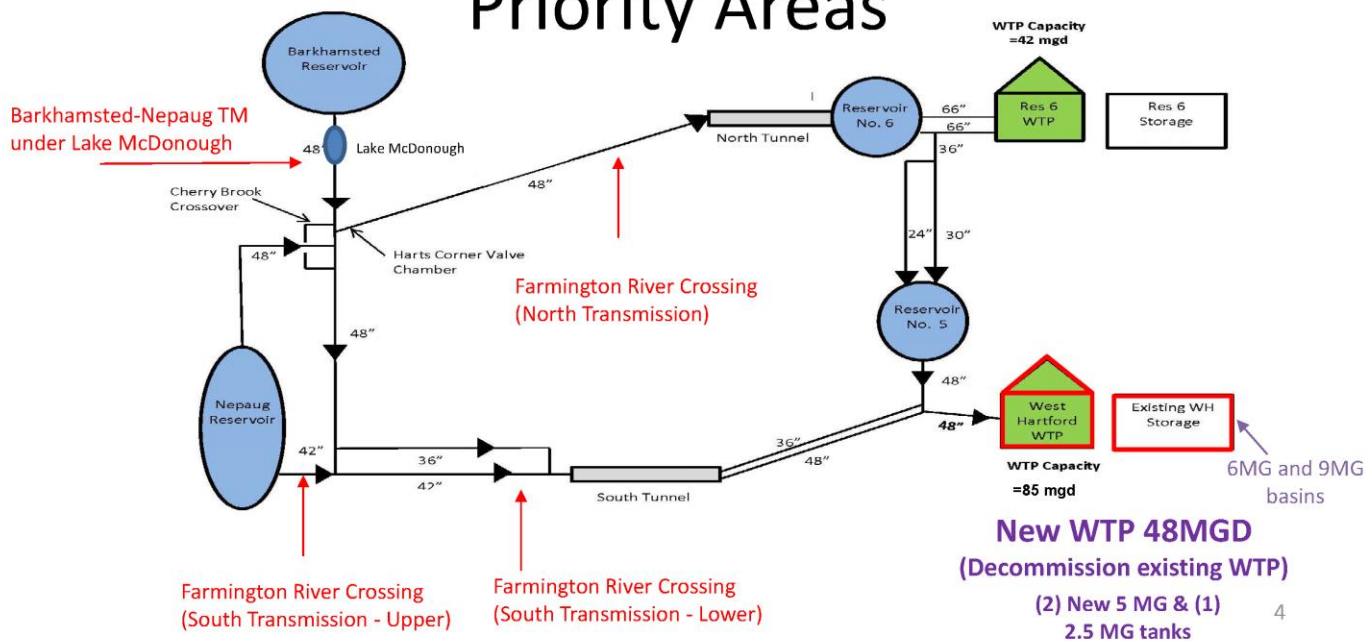
2

MDC Raw Water System Existing



3

Recommended Plan Priority Areas



4



Recommended Plan

Treatment Upgrades

- New 48 MGD plant (@ WH)
 - 2 (5) MG tank
 - (3) residual lagoons
 - Backwash pump station
 - Electrical and chemical buildings
 - Decant/recycle pump station
 - 2.5 MG tank
 - (2) spent wash water ponds
 - Demolish filters

Transmission Upgrades

- New Transmission Main Installations:
 - 36-in & 48 in Supply Lines
 - 42-in Nepaug 3
 - 48-in Barkhamsted-Nepaug
 - 48-in Cherry Brook
 - 36-in Cherry Brook crossover
 - 48-in Collinsville Bypass
 - Priority Projects (river and lake crossings)
- } As-needed Upgrades

Recommended Plan – Next Steps

- Design & Construct 5MG tank at WH WTP
- Reservoir 6 WTP Upgrades & Maintenance
- Design & Construct New and/or Redundant Pipelines
 - Farmington River Crossing - Upper
 - Elizabeth Park Transmission Main within the distribution system
- Lake McDonough By-pass System
- Transmission Appurtenances
- New Water Treatment Facility
 - Preliminary Study & Pilot Design

7

Implementation Plan Phase 1: 2023-2029



Project	Year
Design & Construct 5MG tank at WH WTP	2023-2025
Reservoir 6 WTP Upgrades & Maintenance	2023-2024
Design & Construct "Upper" River Transmission Main X-ing	2024-2026
Design & Construct Lake McDonough By-pass	2024-2026
Design & Construct Elizabeth Park Transmission Main	2025-2027
Transmission Appurtenances	2025-2027
<i>Referendum</i>	<i>2028</i>
New Water Treatment Facility (Preliminary Design)	2024-2029

8

Implementation Plan

Phase 2: 2030-2043

\$264M

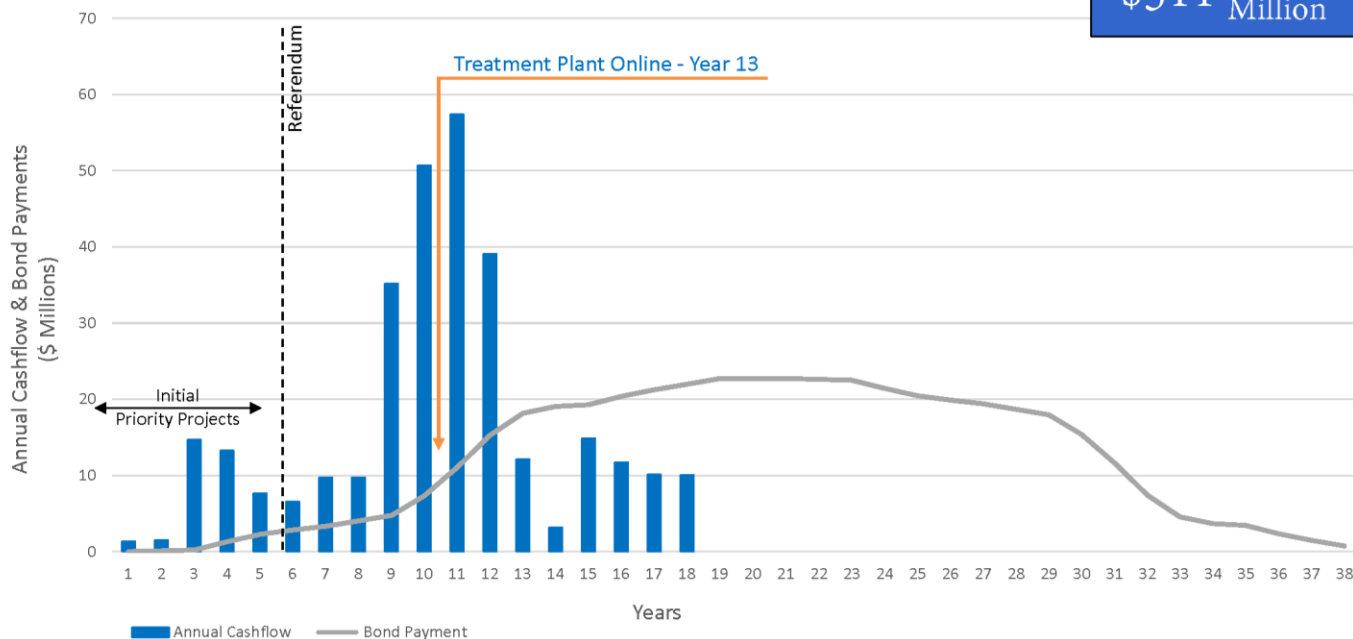
Project	Year
Construct New Treatment Plant & Abandon ex.	2029-2035
Design & Construct Supply Lines	2031-2034
Design & Construct Storage Tanks	2035-2038
Design & Construct "Lower" River Crossing	2036-2040
Reservoir 6 WTP Upgrades	2035-2040
Planning – Transmission Mains*	2041-2043

*35 miles of Transmission Mains remaining after river crossings are built

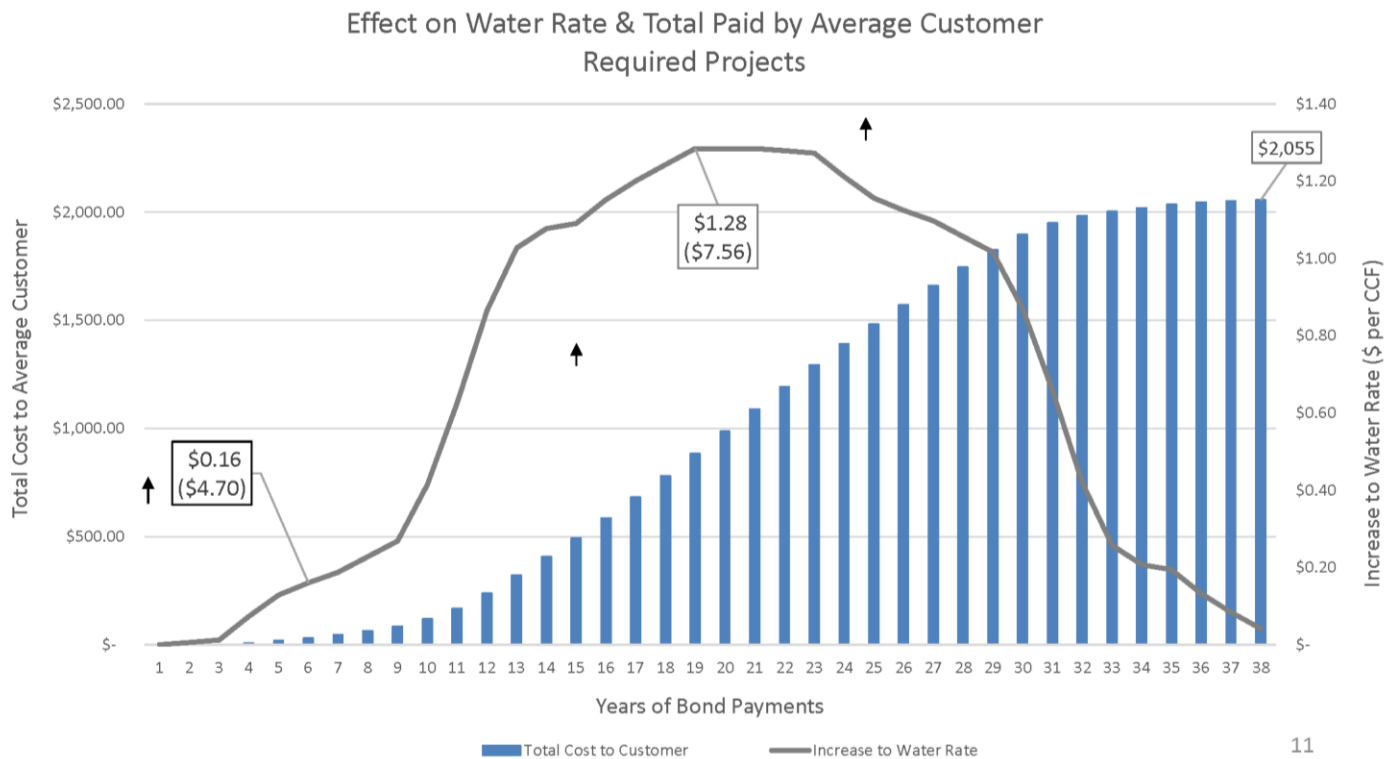
9

Annual Cashflows & Bond Payments
Comparison of Required Project Costs

\$311 Million



10



Recommended Plan

Future Phases: 20+ Years

Remaining 35 miles of Transmission Mains

- Continue condition assessments to determine:
 - No action (status quo)
 - Replacement
 - Trenchless structural lining
 - Combination of options

\$0-336M

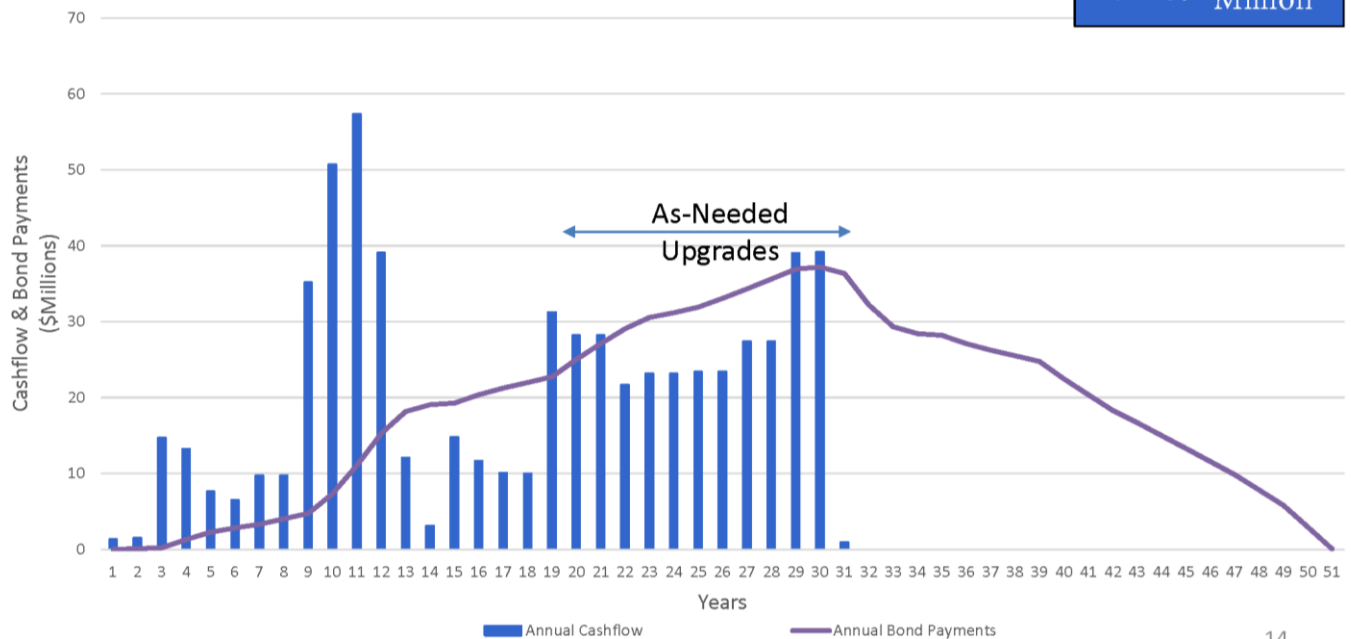
Total Cost Estimate

Required & Priority Projects <i>Plus</i> Condition-Dependent Projects	
Initial Priority & Required Projects Subtotal:	\$311M
Condition-Dependent Transmission Upgrades (Years 19-30)	\$0-336
Maximum Total: All Projects	Up to \$647M

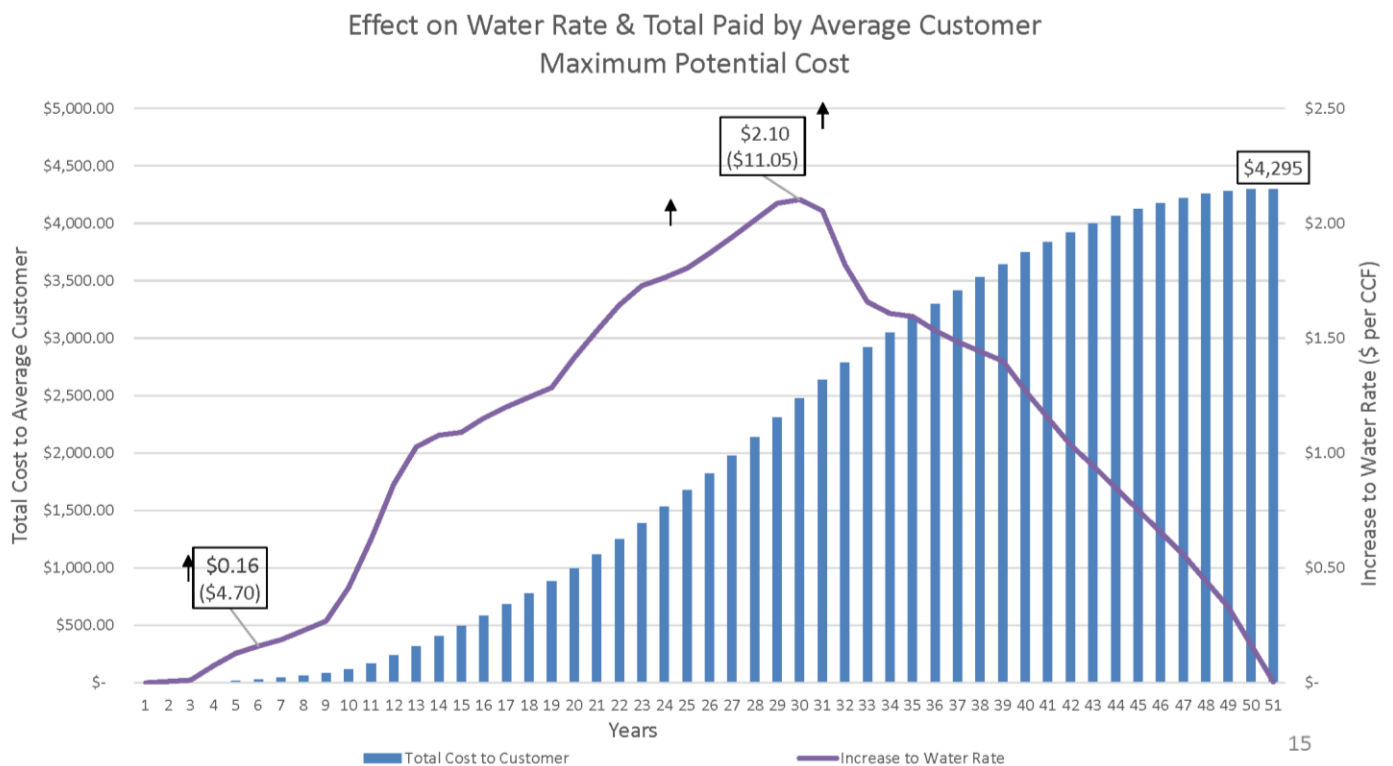
13

Annual Cashflow & Bond Payments
Comparison Maximum Potential Cost

\$647 Million



14



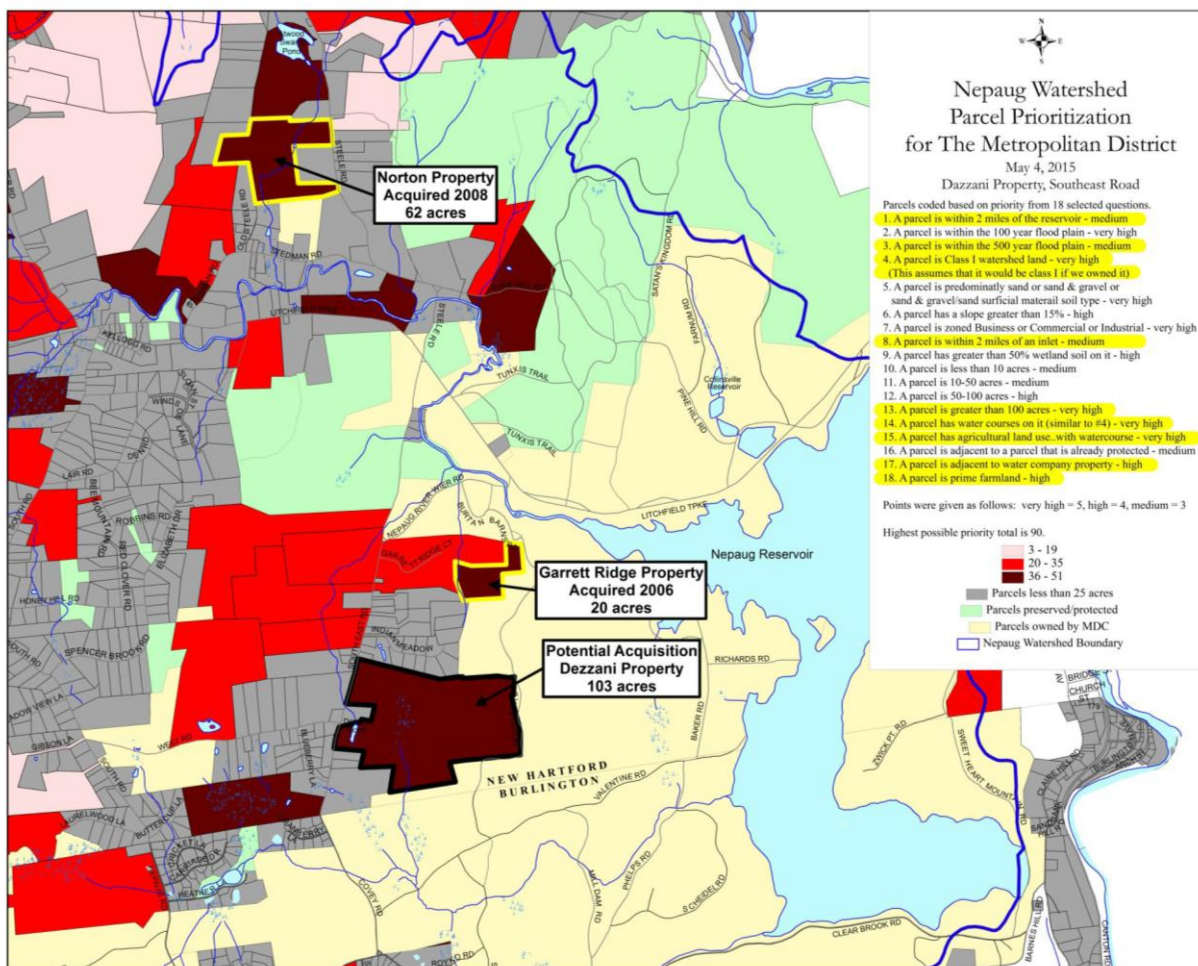
Next Steps

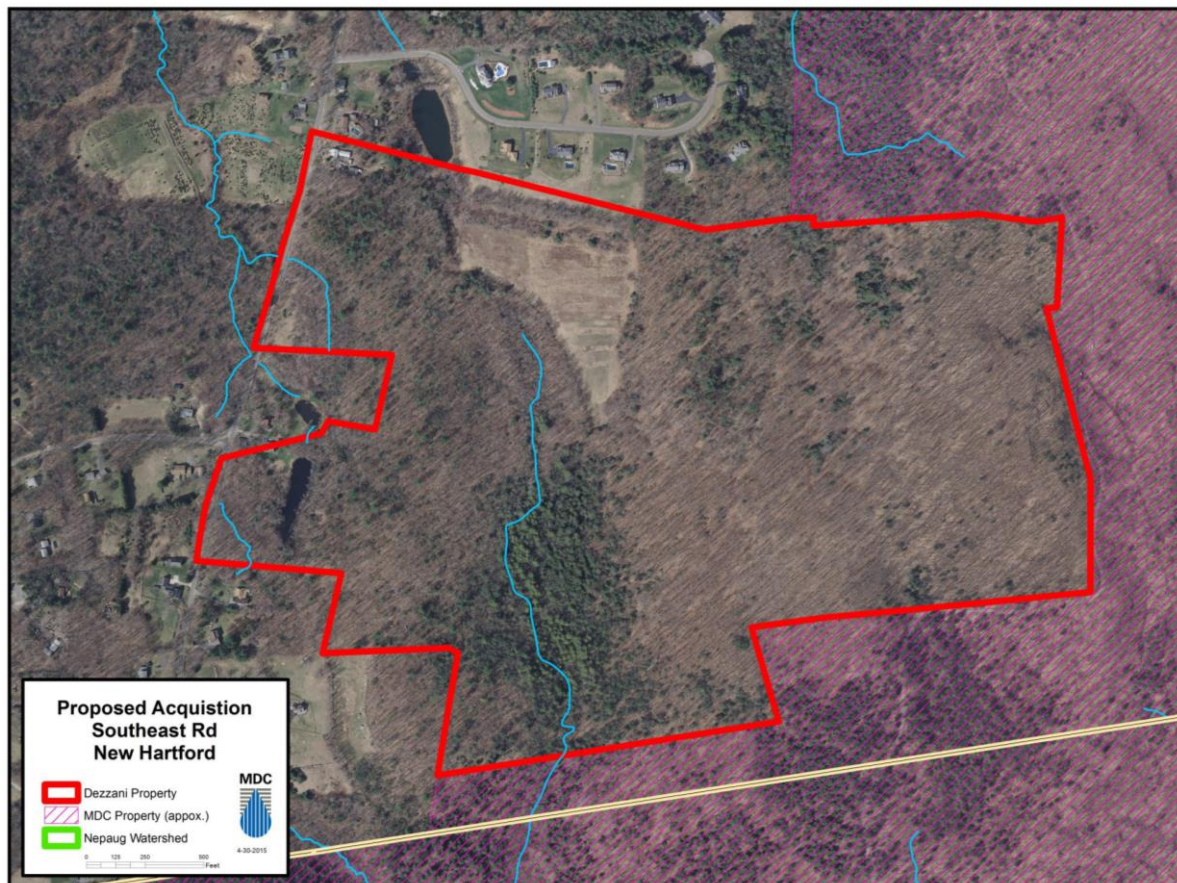
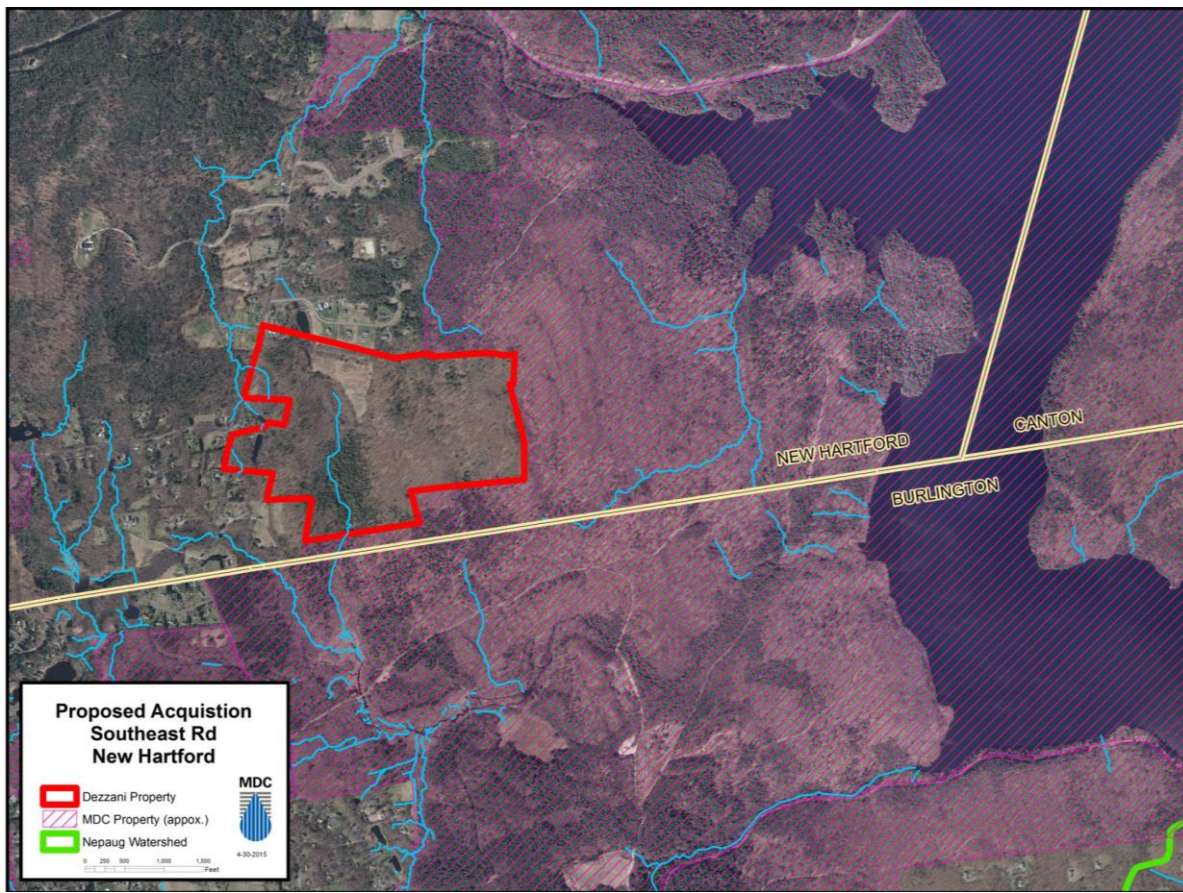
- **Begin initial priority projects**
- Prepare for a future referendum
- Design & build a new plant in West Hartford
- Address remaining priority infrastructure
- Continue to assess aging infrastructure

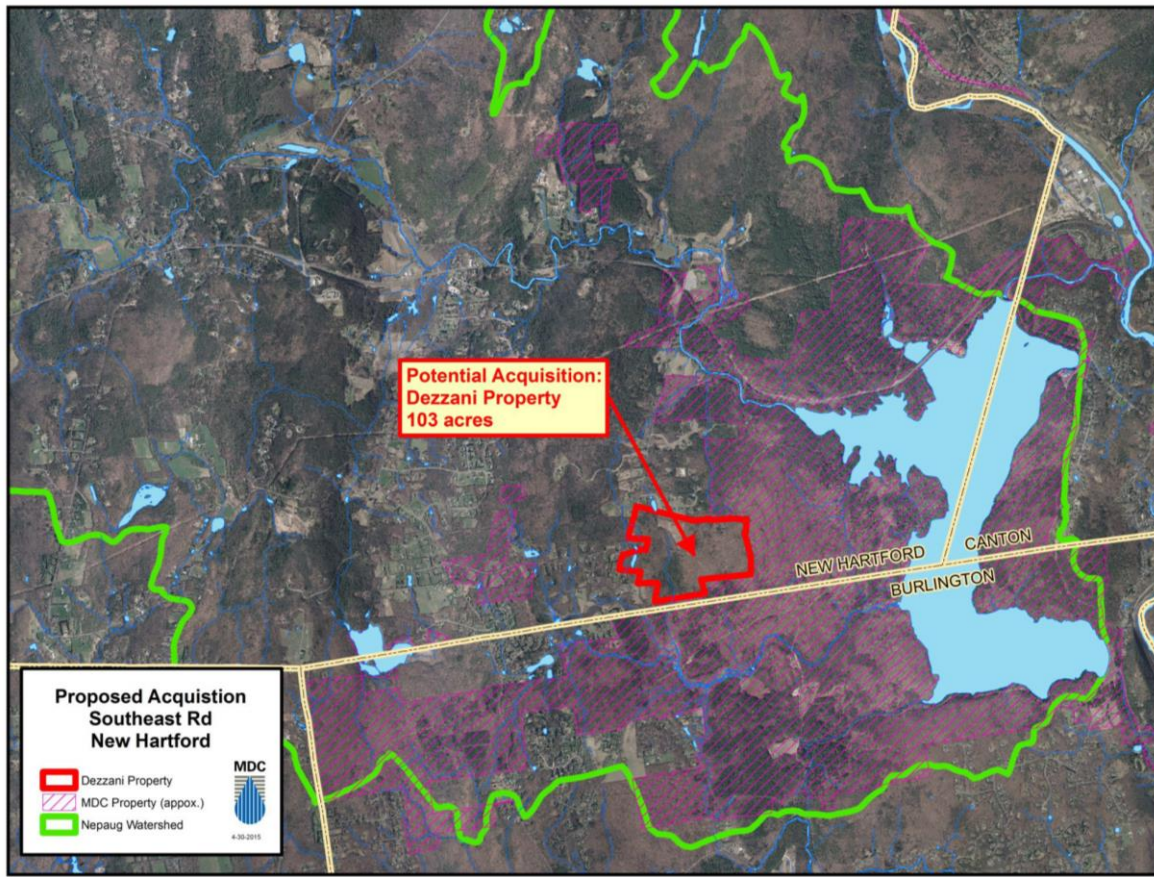
Commissioner Holloway exited the meeting at 6:11 PM.

POTENTIAL SALE OF CLASS III GLASTONBURY LAND AND POTENTIAL PURCHASE OF PROPERTY ADJACENT TO NEPAUG RESERVOIR

Ray Baral, Assistant Manager of Water Treatment, discussed a property adjacent to Nepaug Reservoir in New Hartford that the MDC has the potential to purchase.







Chief Executive Officer Scott Jellison discussed the potential sale of Class III land in Glastonbury to the town.

OPPORTUNITY FOR GENERAL PUBLIC COMMENTS

Judy Allen recommended editing the economic development language in the ordinances. She would also request that the Bureau take a look at the doing an economic development rate like Regional Water Authority.

COMMISSIONER REQUESTS FOR FUTURE AGENDA ITEMS

Commissioner Adil requested a discussion or consideration of electric vehicle charging stations on a future agenda.

Commissioner Mandyck requested a discussion regarding the two cannabis growing facilities within the District, specifically whether there are any concerns about discharges and whether we can expect any significant revenue for the District.

ADJOURNMENT

The meeting was adjourned at 6:48 PM

ATTEST:

A handwritten signature in black ink that reads "John Mirtle". The signature is written in a cursive, flowing style.

John S. Mirtle
District Clerk

September 27, 2023

Date of Approval

**WATER BUREAU
SPECIAL MEETING**
555 Main Street, Hartford
Wednesday, September 27, 2023

Present: Commissioners Andrew Adil, Peter Gardow, Jean Holloway, Dominic Pane, Pasquale Salemi and Alvin Taylor (6)

Remote

Attendance: Commissioners Diane Lewis and Jacqueline Mandyck (2)

Absent: Commissioners Kyle Anderson, Clifford Avery Buell, Dimple Desai, Jon Petoskey, District Chairman William DiBella and Special Representative Michael Carrier (6)

Also

Present: Commissioner Richard Bush (Remote Attendance)
Commissioner Joan Gentile (Remote Attendance)
Commissioner Allen Hoffman
Commissioner Bhupen Patel
Scott W. Jellison, Chief Executive Officer
Christopher Stone, District Counsel
John S. Mirtle, District Clerk
Christopher Levesque, Chief Operating Officer
Kelly Shane, Chief Administrative Officer
Robert Barron, Chief Financial Officer
Susan Negrelli, Director of Engineering
David Rutty, Director of Operations
Robert Schwarm, Director of Information Services
Tom Tyler, Director of Facilities
Jessica Coelho, Project Manager
Jason Waterbury, Manager of Engineering Services
Michael Curley, Manager of Technical Services (Remote Attendance)
Jeff King, Construction Manger
Carrie Blardo, Assistant to the Chief Executive Officer
Julie Price, Executive Assistant
David Baker, IT Consultant (Remote Attendance)
Joseph Szerejko, Independent Consumer Advocate (Remote Attendance)

CALL TO ORDER

The meeting was called to order by Chairman Pane at 5:39 PM.

PUBLIC COMMENTS RELATIVE TO AGENDA ITEMS

No one from the public appeared to be heard.

APPROVAL OF MEETING MINUTES

On a motion made by Commissioner Adil and duly seconded, the meeting minutes of August 30, 2023 were passed by unanimous vote of those present.

RAW WATER MASTER PLAN AND RATE STABILIZATION FUND

To: Water Bureau for consideration on September 27, 2023

In 2017 the District began a master planning project for upgrading the District's raw water system, including its transmission mains and drinking water treatment facilities, and has developed estimated costs totaling up to \$647 million for the necessary system upgrades. Estimated costs for Phase 1 of the master plan (2023-2029) are \$47 million and Phase 2 (2030-2043) are \$264 million. There are further estimated costs for condition-dependent transmission upgrades ranging from \$0 to \$336 million. The master planning project and these estimated costs were presented to the Water Bureau at its June 13, 2023 & August 30, 2023 meetings.

It is **RECOMMENDED** that it be:

VOTED: That the Water Bureau approves passage of the following resolution:

RESOLVED: That the master planning project for necessary upgrades to the District's raw water system, including transmission mains and drinking water treatment facilities, carries estimated costs totaling up to \$647 million.

FURTHER
RESOLVED: In order to fund these significant estimated future expenses, it is prudent to establish a designated water rate stabilization fund by allocating a portion of revenues generated from the water rate to said fund, said portion to be determine annually through the budget process.

FURTHER
RESOLVED: The Water Bureau recommends to the Board of Finance and District Board the creation of a water rate stabilization fund dedicated solely for funding, in part, raw water master plan upgrades, and that \$0.11 of the 2024 District water rate be allocated to said fund.

Respectfully submitted,



Scott W. Jellison
Chief Executive Officer

On motion made by Commissioner Mandyck and duly seconded, the report was received and resolution passed by unanimous vote of those present.

At 6:36 PM, Water Bureau Chairman Pane exited the meeting. Vice Chairman Adil assumed the chair.

POTENTIAL PURCHASE OF REAL ESTATE IN NEW HARTFORD

District Counsel Christopher Stone gave an overview of a potential land purchase in New Hartford. No action was taken at this time.

OPPORTUNITY FOR GENERAL PUBLIC COMMENTS

No one from the public appeared to be heard.

COMMISSIONER REQUESTS FOR FUTURE AGENDA ITEMS

Commissioner Taylor requested the intrastate connectivity of the water systems in the state of Connecticut and how the MDC gets compensated for interconnectivity as the future need arises for potential MDC water system connectivity be placed on a future agenda.

Commissioner Adil requested that electric vehicle charging stations at Reservoir 1 as well as the deterioration of New England forests and stewardship of MDC forests be placed on a future agenda.

ADJOURNMENT

The meeting was adjourned at 6:45 PM

ATTEST:



John S. Mirtle
District Clerk

November 8, 2023

Date of Approval

**WATER BUREAU
REGULAR MEETING**
555 Main Street, Hartford
Wednesday, November 8, 2023

Present: Commissioners Andrew Adil, Dominic Pane, Alvin Taylor and District Chairman William DiBella (4)

Remote

Attendance: Commissioners C. Avery Buell, Dimple Desai, Peter Gardow, Jacqueline Mandyck and Pasquale Salemi (5)

Absent: Commissioners Kyle Anderson, Jean Holloway, Diane Lewis, Jon Petoskey and Special Representative Michael Carrier (5)

Also

Present: Commissioner Richard Bush
Commissioner Donald Currey
Commissioner Byron Lester (Remote Attendance)
Commissioner David Steuber (Remote Attendance)
Scott W. Jellison, Chief Executive Officer
Christopher Stone, District Counsel
John S. Mirtle, District Clerk
Christopher Levesque, Chief Operating Officer (Remote Attendance)
Kelly Shane, Chief Administrative Officer
Robert Barron, Chief Financial Officer
Susan Negrelli, Director of Engineering
Robert Schwarm, Director of Information Services (Remote Attendance)
Tom Tyler, Director of Facilities
Ray Baral, Assistant Manager of Water Treatment
Andrew Hubbard, Natural Resources Administrator
Carrie Blardo, Assistant to the Chief Executive Officer
Julie Price, Executive Assistant
Dylan Pecego, IT Consultant (Remote Attendance)
Joseph Szerejko, Independent Consumer Advocate (Remote Attendance)

CALL TO ORDER

The meeting was called to order by Chairman Pane at 5:19 PM.

PUBLIC COMMENTS RELATIVE TO AGENDA ITEMS

No one from the public appeared to be heard.

APPROVAL OF MEETING MINUTES

On a motion made by District Chairman DiBella and duly seconded, the meeting minutes of September 27, 2023 were approved.

WATER BUREAU REVISIONS TO DISTRICT WATER RATES

To: Water Bureau for consideration on November 8, 2023

The 2024 budget in support of Water Operations calls for the water use, customer service charge, fixed surcharge and fire protection rates to remain unchanged; however, the surcharge outside the Metropolitan District for capital improvements will change. These rates will become effective January 1, 2024. A discussion of several rates that comprise the proposed schedule for 2024 and the recommendations pertaining to each follows:

Water Used Charge – Treated Water

Staff recommends that the rate charged for the use of treated water based on actual metered consumption ***remain unchanged at \$3.80 per CCF.***

Water Used Charge – Untreated Water

The District provides untreated water to other agencies and water companies for a fixed rate based on actual consumption. The current rate for this untreated or “raw” water is \$1.50 per hundred cubic feet of consumption. Staff recommends that the rate charged for the use of untreated water based on actual consumption ***remain unchanged at \$1.50 per CCF.***

Customer Service Charge

Revenues from this customer service charge are intended to support a portion of the fixed operating, maintenance and debt costs associated with water operations. Staff recommends that the following Customer Service Charges by meter size ***remain unchanged,*** as follows:

<u>SIZE OF METER</u>	<u>MONTHLY BILLING</u>
5/8"	\$14.98
3/4"	\$14.98
1"	\$14.98
1 1/2"	\$48.60
2"	\$77.80
3"	\$145.89
4"	\$243.55
6"	\$486.07
8"	\$771.16
10"	\$1,777.77
12"	\$1,896.38

Surcharge Outside the Metropolitan District

A fixed “surcharge” rate is added to all accounts for service outside the boundaries of the District. The surcharge is based on the size of the meter that serves each delivery point. Revenues from this charge are for the reimbursement of assets deployed. The surcharge rates have been set at the same rates as the Customer Service Charges. Staff recommends that the following fixed Surcharge Outside the Metropolitan District by meter size ***remain unchanged,*** as follows:

<u>SIZE OF METER</u>	<u>MONTHLY BILLING</u>
5/8"	\$14.98
3/4"	\$14.98
1"	\$14.98
1 1/2"	\$48.60
2"	\$77.80
3"	\$145.89
4"	\$243.55
6"	\$486.07
8"	\$771.16
10"	\$1,777.77
12"	\$1,896.38

Private Fire Protection Charge

Rates for private fire protection are charged to all fire service accounts, including combination services, based on the size of the service connection. Staff recommends monthly that the monthly Private Fire Protection charges ***remain unchanged***, as follows:

<u>SIZE OF CONNECTION</u>	<u>MONTHLY CHARGE</u>
1"	\$5.00
2"	\$22.85
3"	\$33.75
4"	\$60.00
6"	\$135.00
8"	\$240.00
10"	\$375.00
12"	\$540.00
16"	\$960.00
20"	\$1,500.00
24"	\$2,160.00

Conclusion

Staff believes that the foregoing rate recommendations are justified, reflect the sound financial administration that has earned the District support among credit rating agencies and financial advisors, and are consistent with the policy direction of the Commission.

It is **RECOMMENDED** that it be:

Voted: That the Water Bureau, acting under Section 5-4 of the District Charter, approves the following **2024 water rates without change** from the 2023 rates:

SEC. W1a WATER USED CHARGE (TREATED WATER)

For customers which do not resell treated water, the WATER USED CHARGE is the quantity of water used as read at the meter, as follows:

BILLS RENDERED MONTHLYRATE**\$3.80** per 100 Cubic Feet

The WATER USED CHARGE for such customers subject to § S12x of The Metropolitan District Sewer Ordinances who purchase more than 802 CCF of water per day, as averaged over a monthly billing period, as follows:

For each of the first 802 CCF of water used per day:

BILLS RENDERED MONTHLYRATE**\$3.80** per 100 Cubic Feet

For each CCF of water used per day in excess of 802 CCF:

BILLS RENDERED MONTHLYRATE**\$3.05** per 100 Cubic Feet

For customers which, by agreement with the District or otherwise, resell treated water, the WATER USED CHARGE is the quantity of water used as read at the meter, as follows:

BILLS RENDERED MONTHLYRATE**\$3.80** per 100 Cubic Feet**SEC. W1b CUSTOMER SERVICE CHARGE**

The CUSTOMER SERVICE CHARGE is a service charge applicable to all metered services and services to be metered. The charge shall be determined from the size of each meter installed or to be installed on the premises, as follows:

SIZE OF METERMONTHLY BILLING

5/8"	\$14.98
3/4"	\$14.98
1"	\$14.98
1 1/2"	\$48.60
2"	\$77.80
3"	\$145.89
4"	\$243.55
6"	\$486.07
8"	\$771.16
10"	\$1,777.77
12"	\$1,896.38

SEC. W1c SURCHARGE OUTSIDE THE METROPOLITAN DISTRICT

In towns outside the limits of The Metropolitan District, in addition to charges under SEC. W1a and W1b, there shall be a surcharge determined from the size of the meter installed on the premises, as follows:

<u>SIZE OF METER</u>	<u>MONTHLY BILLING</u>
5/8"	\$14.98
3/4"	\$14.98
1"	\$14.98
1 1/2"	\$48.60
2"	\$77.80
3"	\$145.89
4"	\$243.55
6"	\$486.07
8"	\$771.16
10"	\$1,777.77
12"	\$1,896.38

SEC. W1d CHARGES FOR UNTREATED WATER

Charges for untreated water sold to water companies and agencies under agreement between The Metropolitan District and such companies or agencies, or by other arrangement, shall be a rate of \$1.50 per hundred cubic feet.

SEC. W6f CHARGES FOR PRIVATE FIRE PROTECTION SERVICE

Rates for private fire protection are charged to all fire service accounts, including combination services, based on the size of the service connection.

<u>SIZE OF CONNECTION</u>	<u>MONTHLY CHARGE</u>
1"	\$5.00
2"	\$22.85
3"	\$33.75
4"	\$60.00
6"	\$135.00
8"	\$240.00
10"	\$375.00
12"	\$540.00
16"	\$960.00
20"	\$1,500.00
24"	\$2,160.00

Further

Voted: That the Water Bureau, acting under Section 5-4 of the District Charter, establishes revised water rates effective with the meter readings rendered on and after January 1, 2024, as set forth in the following **"REVISIONS TO WATER SUPPLY ORDINANCES."**

Further

Voted: That following the public hearing held on November 2, 2023, as required by Special Act 01-3 adopted by the General Assembly of the State of Connecticut, and

Section 2-14 of the Compiled Charter of The Metropolitan District, the Water Bureau recommends to the District Board, through the Committee on MDC Government, approval of the following **“REVISIONS TO WATER SUPPLY ORDINANCES”** by the enactment of said proposed ordinances. (Additions are indicated in red and deletions by strikethrough).

REVISIONS TO WATER SUPPLY ORDINANCES

Surcharge Outside the Metropolitan District for Capital Improvements

A surcharge is added to the water rate to recover the cost of major capital improvements and/or upgrades such as water main extensions, pump stations, etc. in non-member towns. The surcharge is calculated based on the aggregate hydraulic capacity of each meter size in each non-member town.

SEC. W1f SURCHARGE OUTSIDE THE METROPOLITAN DISTRICT FOR CAPITAL IMPROVEMENTS

In towns outside the limits of The Metropolitan District for which capital improvements or layout and assessment projects are constructed, in addition to the charges set forth in SEC. W1a, W1b and W1c, there shall be a surcharge on the water rates determined from the size of the meter installed on the premises, as follows:

1. On or before the end of each fiscal year, The Metropolitan District shall determine the actual cost of each capital improvement constructed for each non-member town and the net cost (cost less assessments) of layout and assessment projects constructed for each non-member town. The costs and/or net costs, as applicable, shall be allocated to the towns for which the work was performed and shall be a surcharge on the water rates of the users located in such towns.
2. The annual surcharge to be added to each user's water rate shall equal the total amount of the costs and/or net costs, as applicable, allocated to the town in which such user is located [excluding costs which the town has paid as set forth in Section W1f(3)] amortized over a twenty year period using an interest rate computed by the District which approximates the District's long-term cost of funds for its General Obligation Bond portfolio-multiplied by the percentage of hydraulic capacity of each user's meter size (based on the American Water Works Association meter size capacity) of the aggregate hydraulic capacity of all meters in such town. The surcharge shall be billed in either quarterly or monthly installments, as applicable, commencing with the first bill sent out in the fiscal year succeeding the fiscal year in which the work was performed and continuing over the twenty year period.
3. The District shall, as soon as possible after the completion of each capital improvement project or separate phase thereof, provide to the non-member towns for which a capital improvement was constructed a compilation of the costs associated with the construction of such project(s). If, on or before the end of the District's fiscal year in which such construction was completed, a non-member town agrees to pay and does in fact pay all or a portion of the cost of a capital improvement constructed for such town, then the amount paid by such town shall be deducted from the total amount of costs and/or net costs allocated to such town as described in Section W1f(1) and used to calculate the individual surcharges as set forth in Section W1f(2).

MONTHLY BILLING

METER SIZE	Farmington		Glastonbury		South Windsor		Manchester	
	<u>2023</u>	<u>2024</u>	<u>2023</u>	<u>2024</u>	<u>2023</u>	<u>2024</u>	<u>2023</u>	<u>2024</u>
5/8"	\$1.84	\$1.97	\$1.60	\$1.60	\$1.46	\$1.31	\$2.79	\$2.73
3/4"	-	-	\$2.39	\$2.39	\$2.19	\$1.97	-	-
1"	\$3.68	\$3.93	\$3.19	\$3.19	\$2.92	\$2.63	\$5.57	\$5.47
1½"	\$7.36	\$7.87	\$6.39	\$6.38	\$5.85	\$5.25	-	-
2"	\$138.08	\$147.53	\$119.74	\$119.70	\$109.67	\$98.50	-	-
3"	\$322.20	\$344.23	\$279.39	\$279.29	\$255.90	\$229.84	\$487.54	\$478.29
4"	\$552.33	\$590.10	\$478.96	\$478.79	\$438.68	\$394.02	-	-
6"	\$736.45	\$786.80	\$638.61	\$638.39	-	\$525.36	\$1,114.38	\$1,093.24
8"	\$1,841.12	\$1,967.01	-	-	-	-	-	-

Respectfully submitted,



Scott W. Jellison
Chief Executive Officer

On motion made by District Chairman DiBella and duly seconded, the report was received and resolution passed by unanimous vote of those present.

District Counsel Stone stated that he had received a question from a Commissioner about whether there is anything in the Charter that would prevent the District from selling water to other water companies at a rate above what the MDC sells to member towns.

District Chairman DiBella made motion for a written opinion from District Counsel about the ability to sell water to other water companies at a different rate. The motion was duly seconded and passed by unanimous vote of those present.

**REVISIONS TO WATER ASSESSMENT RATES AND
MISCELLANEOUS WATER CHARGES**

To: Water Bureau for consideration on November 8, 2023

In support of the annual water operating budget, staff is submitting these rates in conjunction with the revisions to the proposed Fiscal Year 2024 water rates and other peripheral charges associated with the delivery and sale of water as part of the annual budget adoption process.

Staff has reviewed these rates in light of the costs associated with them on a 'typical' model basis and makes the following recommendations:

It is **RECOMMENDED** that it be:

Voted: That the Water Bureau hereby adopts the following schedule of fees effective January 1, 2024:

Water Assessment Rates and Miscellaneous Water Charges

	<u>CURRENT</u>	<u>PROPOSED</u>
<u>Main Pipe Assessment</u>	\$95/ft	\$95/ft
<u>Service Pipe Taps</u>		
Domestic (includes spacer and meter costs):		
1" Service Tap with 5/8" Meter	\$910	\$910
1" Service Tap with 3/4" Meter	\$925	\$945
1-1/2" Service Tap with 1" Meter	\$1,100	\$1,100
2" Service Tap with 1-1/2" Meter	\$2,015	\$2,130
4" Service Tap with 2" Meter	\$2,200	\$2,335
4" Service Tap with 3" Meter	\$3,640	\$3,640
6" Service Tap with 4" Meter	\$4,190	\$4,190
8" Service Tap with 6" Meter	\$5,970	\$5,970
10" Service Tap with 8" Meter	\$15,850	\$15,850
12" Service Tap with 10" Meter	\$18,120	\$18,120
12" Service Tap with 12" Meter	\$18,810	\$18,810
<u>Fire Service</u>		
2" Fire Service Tap	\$1,440	\$1,590
4" and larger Fire Service Tap	\$1,200	\$1,370
<u>Hydrants</u>		
Installed after the main	\$11,600	\$15,000
Hydrant Maintenance	\$150	\$155
Hydrant Relocation	\$15,000 deposit +/- actual cost + overhead	\$15,000 deposit +/- actual cost + overhead
Fire Flow Testing	\$400	\$480
<u>Special Meter Charges and Deposits:</u>		
<u>Hydrant Meters</u>		
Administrative and meter reading fee, including connection and inspection fees + actual water use to be billed	\$1,500	\$1,500
Hydrant Meter Deposit	\$2,000	\$2,000

	<u>CURRENT</u>	<u>PROPOSED</u>
Replacement of Damaged District Meters		
5/8" meter	\$360	\$360
3/4" meter	\$375	\$375
1" meter	\$445	\$445
1-1/2" meter	\$1,140	\$1,140
2" meter	\$1,250	\$1,250
3" meter	\$2,630	\$2,630
4" meter	\$3,180	\$3,180
6" meter	\$4,960	\$5,090
8" meter	\$14,840	\$14,840
10" meter	\$17,110	\$17,110
12" meter	\$17,800	\$17,800
Hydrant meter assembly	\$2,000	\$2,000
Meter box (5/8"- 1")	\$1,750	\$1,750
Meter pit (1 – 1½" and Larger)	Actual Cost* + Overhead	Actual Cost* + Overhead
Radio transmitter unit	\$200	\$212
Spacer Charges		
5/8", 3/4"	\$160	\$160
1"	\$165	\$181
1-1/2"	\$225	\$225
2" & larger	\$250	\$250
3rd Party Damage to District Infrastructure Repair or Replacement (e.g. public hydrants)	Actual Cost* + Overhead	Actual Cost* + Overhead
Lien Release Fee per Lien (includes delinquent account review)	\$90	\$90
Customer Check Returned for Insufficient Funds	\$60	\$60
Water Turn-on after Shut-off for Non-Payment or Ordinance Violation	\$170	\$170
Water Turn-on after Shut-off for Non-Payment or Ordinance Violation (subsequent event in same year)	\$225	\$225
Customer Private Property Service Call* e.g. lack of water pressure, leak investigation, customer requested water service off/on, etc. *First customer service call is free of charge. The \$125 fee will be charged for subsequent calls within a rolling 12-month time period.	\$125	\$125

* The charge will be the District's cost of material, labor and equipment used, plus overhead at prevailing rates. In circumstances where this procedure for charging a customer would significantly delay the final billing, the District will use an appropriate estimate of its cost.

	<u>CURRENT</u>	<u>PROPOSED</u>
Inspection Service Calls – After Normal Work Hours and Scheduled Overtime/Emergency Inspections <i>After Normal Work Hours are Monday to Friday 4pm to 8am or holidays/weekends.</i>	\$415	\$415
Cross Connection Inspection Fee per building <i>Required by CT Dept. of Public Health. Per DPH regulation, this inspection is required either annually or every five years. The fee will be billed monthly in advance in the amount of either \$2.50 per month (5-year inspection required) or \$12.50 per month (annual inspection required).</i>	\$150	\$150
Backflow Device Testing per device <i>Required by CT Dept. of Public Health but customer may hire private contractor to perform test</i>	\$115	\$115
Failure to Properly Test/Maintain Backflow Device or Allow Access for Cross Connection Inspection Resulting in CT DPH Violation	\$225	\$225
Administrative Review for Water Services <i>Includes but not limited to the following individual services; availability and capacity analysis, assessment/connection charge calculations, encroachment permits, abandonment of infrastructure, Engineering/Environmental survey and documentation request, new hydrant installation fee by developer or other (per hydrant). The Administrative Review fee shall be paid for each individual service item.</i>	\$600	\$670
Bulk Water Truck Convenience Fee <i>Per load fixed fee including administrative, water, equipment maintenance, and inspection.</i>	\$75 per load	\$75 per load
Tampering with meter, hydrant or water supply First offense Subsequent offenses	\$500 \$1,000	\$500 \$1,000
Water Service Installation Charge <i>MDC will install the customer's water service from the public water main to the property line.</i>	\$150 per foot	\$150 per foot

Respectfully submitted,



Scott W. Jellison
Chief Executive Officer

On motion made by District Chairman DiBella and duly seconded, the report was received and resolution adopted by unanimous vote of those present.

ELECTRIC VEHICLE CHARGERS AT DISTRICT RECREATION AREAS

Chris Levesque, Chief Operating Officer, presented on proposed EV charging stations on MDC recreational facilities.

STEWARDSHIP OF DISTRICT FORESTS AND ADDITION OF ANOTHER FORESTER

Andrew Hubbard, Natural Resources Administrator, and Ray Baral, Assistant Manager of Water Treatment, updated the Water Bureau on District forests and watershed land management and whether there is a need for an additional forester.

CANNABIS GROWING FACILITIES LOCATED WITHIN THE DISTRICT

Scott Jellison, Chief Executive Officer, discussed the addition of cannabis growing facilities in the District, including a current facility in Bloomfield that uses approximately 20,000 gallons a day.

OPPORTUNITY FOR GENERAL PUBLIC COMMENTS

Judy Allen, of West Hartford, spoke on the topic of EV Charging Stations. She stated that there is no longer PFAS in fire-fighting foam in Connecticut and that there should not be worry about cars spontaneously combusting, as that is not an EV car issue. She stated that cars currently parking at the MDC reservoir lots leak oil. She believes that installing EV charging stations is a public service and is an easy thing to do for public relations and that other government entities are installing them. Lastly, she stated that there should be more focus on all aspects, not just the financial impact.

Commissioner Taylor exited the meeting at 6:23 PM.

ADJOURNMENT

The meeting was adjourned at 6:24 PM

ATTEST:

A handwritten signature in black ink that reads "John Mirtle". The signature is written in a cursive, flowing style.

John S. Mirtle
District Clerk

February 21, 2024

Date of Approval

INDEX

To

MINUTES OF THE WATER BUREAU

Water Bureau - 2023

	Page
A	
ABANDONMENT OF WATER MAIN	
Veteran's Terrace Phase 3, East Hartford	6
ADVANCED METER INFRASTRUCTURE	
Presentation	3
C	
CANNABIS GROWING FACILITIES	
Presentation	77
E	
ECONOMIC DEVELOPMENT RATE	
Discussion	51
ELECTRIC VEHICLE CHARGING STATIONS	
Discussion	3
Presentation	77
EXCLUSIVE SERVICE AREA	
South Windsor Issue with CT Water	3
M	
METER INSTALLATION PROGRAM	
And No Access Shutoffs	3
R	
RAW WATER MASTER PLAN	
Creation of Water Rate Stabilization Fund	65
Presentation	20
Presentation & Recommendations	51
REAL ESTATE	
Potential Purchase Adjacent to Nepaug Reservoir	60
Potential Purchase in New Hartford	66

Water Bureau - 2023

	Page
Potential Sale of Class III Land in Glastonbury	60
RECREATION RATES	
Lake McDonough	17
S	
STEWARDSHIP OF DISTRICT FORESTS	
Presentation	77
U	
UNREGULATED CONTAMINANT MONITORING RULE	
US EPA 5th UCMR	10
W	
WATER ASSESSMENT RATES AND MISCELLANEOUS CHARGES	
2024 Rates	73
WATER RATES	
2024 Rates	68
WATER SERVICE	
145 North Road, Rocky Hill	2