



# CHAMPLAIN WATER DISTRICT

Dedicated to Quality Water & Service



First In The Nation ~ Excellence In Water Treatment, Partnership For Safe Water

The Board of Commissioners of the Champlain Water District presents a 2022-2023 Operating and Capital Improvement Budget for both the Wholesale and Retail Departments of the Champlain Water District to the citizens within its membership.

There will be a public meeting to discuss these proposed fiscal year 2022-2023 Operating and Capital Improvement Budgets **at 7:00 p.m. on Wednesday, February 2<sup>nd</sup> at Champlain Water District in South Burlington.** All citizens of the Towns of Shelburne, Essex, Williston, Colchester, Milton, the Villages of Jericho and Essex Junction, and the Cities of South Burlington and Winooski are invited to attend. Virtual access is available for those that wish to attend remotely\*.

**\* Login for Budget Public Informational Meeting**

Interactive Online Meeting (audio & video): <https://global.gotomeeting.com/join/868105901>

By Telephone (audio only) Phone Number: (866) 899-4679 - Meeting Access Code: 868-105-901

Copies of the proposed budgets are displayed at each of the above municipal offices and on the Champlain Water District website: [www.champlainwater.org](http://www.champlainwater.org). The proposed wholesale budget totaling \$9,268,774 requires an increase in the uniform wholesale rate from \$2.392 per 1000 gallons to \$2.494 per 1000 gallons. This 10.2 cents per 1000 gallon increase means that the average family using 65,700 gallons per year will pay an additional \$0.56 cents per month, which is an increase of \$6.70 per year.

The Annual Meeting of the District will be held at **7:00 p.m. on Tuesday, April 5, 2022 at Champlain Water District in South Burlington.** All citizens of the Towns of Shelburne, Essex, Williston, Colchester, Milton, the Villages of Jericho and Essex Junction, and the Cities of South Burlington and Winooski are invited to attend. Virtual access is available for those that wish to attend remotely\*\*.

**\*\* Login for Annual Meeting**

Interactive Online Meeting (audio & video): <https://global.gotomeeting.com/join/693846597>

By Telephone (audio only) Phone Number: (877) 309-2073 - Meeting Access Code: 693-846-597

The meeting warning will include:

- Article I: To hear and act upon the reports of the Officers.
- Article II: To elect officers required by the Charter of the Champlain Water District; Moderator, Auditor, and Clerk/Treasurer.
- Article III: Capital Reserve Fund Motion.
- Article IV: To act upon both a wholesale and retail budgets as presented by the Board of Commissioners for the ensuing year, and appropriate such sums as may be necessary to meet the expenses of the District.

All questions in this regard should be made to Joe Duncan, General Manager, at the District address below.

## **AN OVERVIEW OF PROPOSED OPERATING AND CAPITAL IMPROVEMENT BUDGETS OF THE CHAMPLAIN WATER DISTRICT FOR FISCAL YEAR 2022-2023**

This proposed fiscal year 2022-2023 operating budget is presented for your information, review, and approval at the Champlain Water District (CWD) Annual Meeting of April 5, 2022. The CWD management has developed financial plans, for both the Wholesale and Retail departments, and has utilized these plans to set priorities enabling the preparation of this budget. The financial plan sets forth a purpose and defines related assumptions. Goals are established and priorities are listed in numerical and chronological importance to the District operation.

In using these defined assumptions and goals, it has been necessary to postpone some investment items on the priority list in order to be fiscally responsible. These projects are noted as such to indicate future capital needs of the District.

Into this financial strategy we have incorporated and prioritized a schedule of CWD's debt service and a schedule of anticipated CWD capital improvements with estimated costs (2022 dollars). This data has been organized and appropriately incorporated into the fiscal year 2022-2023 budget as applicable.

In our attempt to present a balanced budget, and to minimize the impact of the District's water rate increase, we have incorporated only the critical and necessary projects in the priority list of this plan for the fiscal year 2022-2023.

We look forward to presenting and discussing CWD's financial program for fiscal year 2022-2023 with each of you.

CWD Management

**CHAMPLAIN WATER DISTRICT  
BUDGET PROPOSAL FOR FISCAL YEAR 2022-2023**

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- ◆ Data Relative To The CWD Organization, Treatment Process & Capacities
- ◆ Graph of Historical Wholesale Water Rates - FY 1990 - 2023
- ◆ Graph of Historical Annual Water Sales - FY 1990 – 2021
- ◆ Map of CWD Demand Areas – FY 2020-2021
- ◆ Itemized Schedule of Wholesale Existing Debt Service - FY 2022-2023
- ◆ Schedule of Wholesale Debt Service - FY 2022 - 2025
- ◆ Graph of Annual Debt Service Forecast - FY 2000 - 2032
- ◆ Comparative Retail Water Rates Survey – December 2021

# WHOLESALE DEPARTMENT

## FINANCIAL PLANNING FOR THE FISCAL YEAR 2022-2023

The primary function of the Champlain Water District (CWD) is to provide a high quality drinking water, protective of public health, which exceeds all established Federal and State drinking water requirements, and to provide the highest level of water related support services achievable, using prudent utility practices and within the financial constraints of the District. Support activities and projects must be considered within the context of their purpose to complement these overall goals.

Financial planning must, by its nature, rely on assumptions about future events. Planners must define and itemize the assumptions used to build models and must identify priorities for resource allocation. Goals must be established which are consistent with the total functional mission of the District.

In planning for the fiscal management of the district, planning assumptions and priorities have been established. Within this framework, the following assumptions and priorities are listed for the 2022-2023 fiscal year plan.

### **Assumptions:**

1. The overall water sales are assumed to remain level at an average of 9.40 million gallons per day as was the fiscal year 2021-2022 budget due to present economic conditions and industrial usage pattern.
2. Water sales revenue will generate approximately 92.06% of the total CWD revenues.
3. The District will present a balanced budget to its membership.
4. The District will continue to coordinate and fund the \$196,742 State of Vermont water supply fee program for all its membership water systems; each member will reimburse its flow proportional share to the District.
5. The District will practice cost containment to minimize the required rate increase from \$2.392/1000 gallons to \$2.494/1000 gallons, while formalizing plans to carry out the required recommendations of CWD's Interim Ten Year Master Plan (2016-2026), and maintaining the budgetary Capital Reserve Fund contributions.
6. As part of CWD's master planning process, continued study, planning and cost estimates will be performed in order to maintain adequate supply reliability and redundancy in all major water supply components.
7. As part of CWD's master planning process, the District will further apply computer technology such as Computer Assisted Design and Drafting (CADD), Automated Mapping Facilities Management (AM/FM), Geographical Information System (GIS), and hydraulic computer analysis of piping networks, into an integrated and optimized approach to system information management.
8. As part of CWD's master planning process, continued study of the total CWD transmission and storage network will be analyzed to determine future needs and requirements to be able to construct transmission system improvements and assist in identifying future water storage needs of our served municipal systems.
9. There will be continued effort to implement and utilize the CWD Source Protection Plan and Distribution System Water Quality Management Plans in order to optimize all four of CWD's water treatment barriers.
10. The District will continue to implement a Pipe Integrity Program to document the condition of its transmission piping system.
11. The District will continue to carry out a public information and outreach program that will be funded by the CWD fiscal year budget.

12. The Capital Reserve Account will be funded through the "Current Year Capital Contribution" line item (#5100) in the fiscal year 2022-2023 budget totaling \$627,000 for planned future expenditures.
13. A long-term storage tank inspection and recoating contract will be reviewed annually and maintenance will be scheduled and implemented as forecasted in this contract with Utility Service Company / Suez.
14. A long-term facility adsorption clarifier and filter rebuild program will be reviewed annually and maintenance will be scheduled and implemented as forecasted in this contract with Utility Service Company / Suez.
15. As initially developed through the District's Five-Year Strategic Planning Process, CWD's Rate Model will continue to be utilized for all future budgeting and long term planning of capital expenditures.
16. The District will utilize its master planning approach as the planning tool for all future CWD capital investments. Listed in the table below are capital expenditures that are identified through the Ten Year Master Plan (2016-2026).
17. Expenditures which are not necessary to accomplish the above delineated water quality and service goals within the 2022-2023 fiscal year will be delayed or postponed to a subsequent budget year.

**PRIORITIES:** **AMOUNT AND SOURCE OF FUNDING REQUIRED**

	<b>TOTAL COST ESTIMATE</b>	<b>FY 2022-23 ANNUAL COST</b>	<b>PROPOSED SOURCE</b>
1. The District will continue in an aggressive planning and research mode to evaluate the effects of, and ensure proactive compliance with future EPA Safe Drinking Water Act regulations.	Continued Planning and Research In House	-----	FY Budget
2. The CWD planning process will focus on maintaining adequate and reliable capacity to supply the required volumes of water to its consumers, while also complying with State mandated hydraulic and served water storage requirements, in conjunction with the Interim 10 year Master Plan.	Continued Planning and Research In House	-----	FY Budget
3. CWD will continue a strong program of public information and outreach.	Continued Public Information Program	-----	FY Budget
4. The District will further apply computer technology such as Computer Assisted Design and Drafting (CADD), Automated Mapping Facilities Management (AM/FM), Geographical Information System (GIS), and hydraulic computer analysis of piping network, into an integrated approach to system information management as part of the Interim 10 year Master Plan.	Continued Planning and Research In House	-----	FY Budget
5. CWD will utilize the Source Protection Plan and also the Distribution System Water Quality Management Plan to optimize all four water treatment barriers per AWWA guidelines.	Continued Planning and Research In House	-----	FY Budget
6. Filter and Clarifier Rebuild Program	\$ 185,000	\$ 185,000	Capital Reserve Account

**PRIORITIES:** **AMOUNT AND SOURCE  
OF FUNDING REQUIRED**

	<b>TOTAL COST ESTIMATE</b>	<b>FY 2022-23 ANNUAL COST</b>	<b>PROPOSED SOURCE</b>
7. Vehicle Replacement Plan	\$ 75,000	\$ 75,000	Capital Reserve Account
8. Transmission System Improvements Program	\$ 25,000	\$ 25,000	Capital Reserve Account
9. Plant Reconditioning Program	\$ 7,500	\$ 7,500	Capital Reserve Account
10. Pipe Integrity Program	\$ 30,000	\$ 30,000	Capital Reserve Account
11. Plant Valve & Actuator Replacement Program	\$ 40,000	\$ 40,000	Capital Reserve Account
12. Exit 16 Double Diamond	\$ 459,053	\$ 459,053	Capital Reserve Acct/Federal Grant
13. Water Quality Equipment Program	\$ 31,600	\$ 31,600	Capital Reserve Account
14. Raw Water Transmission Main – PS & RR Tracks Crossing	\$ 60,000	\$ 60,000	20 Year Municipal Bond
15. Thermocline / North Intake Bundle	\$ 50,000	\$ 50,000	20 Year Municipal Bond
16. Tank Improvements Program	\$ 148,285	\$ 148,285	Capital Reserve Account
17. Asset Management Software	\$ 125,000	\$ 125,000	Capital Reserve Account
18. Source Protection Plan Update	\$ 50,000	\$ 50,000	Capital Reserve Account
19. Electrical Vehicle Fleet Conversion	\$ 500,000	\$ 500,000	Federal Grant
20. Vehicle Replacement Plan (2023-2024)	\$ 50,000*	-----	Capital Reserve Account
21. Transmission System Improvements Program (2023-2024)	\$ 25,000*	-----	Capital Reserve Account
22. Plant Reconditioning Program (2023-2024)	\$ 30,000*	-----	Capital Reserve Account
23. Raw Water Pump Station Pump and Motor Replacement Program (2023-2024)	\$ 70,000*	-----	Capital Reserve Account
24. Raw Water Pump Control Valve Replacement Program (2023-2024)	\$ 30,000*	-----	Capital Reserve Account
25. Pipe Integrity Program (2023-2024)	\$ 15,000*	-----	Capital Reserve Account
26. Plant Valve & Actuator Replacement Program (2023-2024)	\$ 15,000*	-----	Capital Reserve Account
27. WTP HVAC Improvement Study (2023-2024)	\$ 150,000*	-----	Capital Reserve Account
28. Water Quality Equipment Program (2023-2024)	\$ 20,000*	-----	Capital Reserve Account
29. Lake Water Pump Station Expansion (2023-2024)	\$ 220,000*	-----	20 Year Municipal Bond
30. Thermocline / North Intake Bundle (2023-2024)	\$ 350,000*	-----	20 Year Municipal Bond
31. Tank Improvements Program (2023-2024)	\$ 153,363*	-----	Capital Reserve Account

**PRIORITIES:** **AMOUNT AND SOURCE  
OF FUNDING REQUIRED**

	<b>TOTAL COST ESTIMATE</b>	<b>FY 2022-23 ANNUAL COST</b>	<b>PROPOSED SOURCE</b>
32. Raw Water Pump VFD (2023-2024)	\$ 30,000*	-----	Capital Reserve Account
33. Security Improvements Program (2023-2024)	\$ 25,000*	-----	Capital Reserve Account
34. Fleet Equipment Program (2023-2024)	\$ 50,000*	-----	Capital Reserve Account
35. Chemical Building Addition (2023-2024)	\$ 348,290*	-----	20 Year Municipal Bond
36. Vehicle Replacement Program (2024-2025)	\$ 90,000*	-----	Capital Reserve Account
37. Transmission System Improvements Program (2024-2025)	\$ 25,000*	-----	Capital Reserve Account
38. Plant Reconditioning Program (2024-2025)	\$ 20,000*	-----	Capital Reserve Account
39. Raw Water Pump Control Valve Replacement Program (2024-2025)	\$ 30,000*	-----	Capital Reserve Account
40. Pipe Integrity Program (2024-2025)	\$ 15,000*	-----	Capital Reserve Account
41. Plant Valve & Actuator Replacement Program (2024-2025)	\$ 15,000*	-----	Capital Reserve Account
42. Water Quality Equipment Program (2024-2025)	\$ 20,000*	-----	Capital Reserve Account
43. Raw Water Transmission Main – PS & RR Tracks Crossing (2024-2025)	\$ 1,701,175*	-----	20 Year Municipal Bond
44. Tank Improvements Program (2024-2025)	\$ 119,504*	-----	Capital Reserve Account
45. Raw Water Pump VFD (2024-2025)	\$ 30,000*	-----	Capital Reserve Account
46. Main Service Pump #3 and Discharge Header (2024-2025)	\$ 30,000*	-----	Capital Reserve Account
47. Transmission System Vault Replacements (2024-2025)	\$ 400,000*	-----	20 Year Municipal Bond
48. Williston Route 2A Waterline Replacement (2024-2025)	\$ 600,000*	-----	20 Year Municipal Bond
49. Backup Business Network (2024-2025)	\$ 120,000*	-----	Capital Reserve Account
50. Vehicle Replacement Plan (2025-2026)	\$ 60,000*	-----	Capital Reserve Account
51. Filter and Clarifier Rebuild Program (2025-2026)	\$ 50,000*	-----	Capital Reserve Account
52. Transmission System Improvements Program (2025-2026)	\$ 25,000*	-----	Capital Reserve Account
53. Plant Reconditioning Program (2025-2026)	\$ 7,500*	-----	Capital Reserve Account
54. Pipe Integrity Program (2025-2026)	\$ 15,000*	-----	Capital Reserve Account
55. Plant Valve & Actuator Replacement Program (2025-2026)	\$ 15,000*	-----	Capital Reserve Account
56. WTP HVAC Improvement Study (2025-2026)	\$ 20,000*	-----	Capital Reserve Account

**PRIORITIES:** **AMOUNT AND SOURCE  
OF FUNDING REQUIRED**

	<b>TOTAL COST ESTIMATE</b>	<b>FY 2022-23 ANNUAL COST</b>	<b>PROPOSED SOURCE</b>
57. Water Quality Equipment Program (2025-2026)	\$ 20,000*	-----	Capital Reserve Account
58. Lake Water Pump Station Expansion (2025-2026)	\$ 3,280,000*	-----	20 Year Municipal Bond
59. Tank Improvements Program (2025-2026)	\$ 80,000*	-----	Capital Reserve Account
60. Raw Water Pump VFD (2025-2026)	\$ 30,000*	-----	Capital Reserve Account
61. Fleet Equipment Program (2025-2026)	\$ 70,000*	-----	Capital Reserve Account
62. Vehicle Replacement Plan (2026-2027)	\$ 70,000*	-----	Capital Reserve Account
63. Filter and Clarifier Rebuild Program (2026-2027)	\$ 190,000*	-----	Capital Reserve Account
64. Transmission System Improvements Program (2026-2027)	\$ 25,000*	-----	Capital Reserve Account
65. Plant Reconditioning Program (2026-2027)	\$ 7,500*	-----	Capital Reserve Account
66. Pipe Integrity Program (2026-2027)	\$ 15,000*	-----	Capital Reserve Account
67. Plant Valve & Actuator Replacement Program (2026-2027)	\$ 15,000*	-----	Capital Reserve Account
68. WTP HVAC Improvement Study (2026-2027)	\$ 80,000*	-----	Capital Reserve Account
69. Water Quality Equipment Program (2026-2027)	\$ 20,000*	-----	Capital Reserve Account
70. Tank Improvements Program (2026-2027)	\$ 80,000*	-----	Capital Reserve Account
71. Raw Water Pump VFD (2026-2027)	\$ 30,000*	-----	Capital Reserve Account
72. Chemical Building Addition (2026-2027)	\$ 5,100,000*	-----	20 Year Municipal Bond

Items in bold indicate expenses for FY 2022-2023 Budget  
 \* Engineer's preliminary estimates for budgetary purposes.



CHAMPLAIN WATER DISTRICT  
CAPITAL RESERVE BUDGET  
FISCAL YEAR 2021-2022 THROUGH 2023-2024

FUND BALANCE JULY 1, 2021		\$752,394
<b>2021-2022 PROJECTED INCOME TO RESERVE FUND</b>		
INTEREST	2,000	
CONNECTION FEES	5,000	
PRIOR YEAR SURPLUS (2020-2021)	588,038	
ESSEX WEST PUMP STATION / PIPELINE INTERCONNECTION TO ESSEX TOWN (FROM BOND)	2,391,125	
COLCHESTER SOUTH TANK LOOP (FROM BOND)	86,820	
REPURPOSED UNEXPENDED BOND PROCEEDS (FROM BOND)	1,090,607	
WATER TREATMENT PLANT SOLAR (LEASE OPERATING REVENUE OFFSET)	400,000	
BUDGETED CAPITAL RESERVE TRANSFER	620,000	
TOTAL PROJECTED INCOME TO RESERVE FUND 2021-2022		\$5,183,589
<b>BUDGETED PROJECTS 2021-2022</b>		
VEHICLE REPLACEMENT PLAN	75,000	
FILTER AND CLARIFIER REBUILD PROGRAM	38,527	
PIPE INTEGRITY PROGRAM	27,238	
TRANSMISSION SYSTEM IMPROVEMENTS PROGRAM	20,000	
PLANT RECONDITIONING PROGRAM	63,473	
RAW WATER PUMP STATION PUMP AND MOTOR REPLACEMENT PROGRAM	70,000	
RAW WATER PUMP CONTROL VALVE REPLACEMENT PROGRAM	60,000	
INSTRUMENTATION & CONTROLS REPLACEMENT PROGRAM	20,000	
PLANT VALVE & ACTUATOR REPLACEMENT PROGRAM	77,500	
WELL #7 METER VAULT IMPROVEMENTS	100,000	
ESSEX WEST PUMP STATION AND PIPELINE INTERCONNECTION TO ESSEX TOWN	2,205,892	
OVERALL SITE PLANNING	60,000	
FILTER EFFLUENT PUMP SYSTEM UPGRADE	23,960	
WATER TREATMENT PLANT HVAC IMPROVEMENT STUDY	101,703	
OLD FILTERED WATER TANK REHABILITATION	185,281	
RAW WATER TRANSMISSION MAIN - PS & RR TRACKS CROSSING	49,292	
THERMOCLINE / NORTH INTAKE BUNDLE	26,170	
TANK IMPROVEMENTS PROGRAM	15,200	
AIR BLOWERS	5,000	
RAW WATER PUMP VFD	60,000	
PLANT ELECTRICAL RELIABILITY & RECONDITIONING	15,000	
SECURITY IMPROVEMENTS PROGRAM	30,000	
WILLISTON ROUTE 2A WATER LINE REPLACEMENT	14,000	
CHEMICAL BUILDING ADDITION	151,710	
INSTRUMENTATION & CONTROLS UPGRADES	56,700	
ASSET MANAGEMENT SOFTWARE	125,000	
WATER TREATMENT PLANT SOLAR	400,000	
TOTAL BUDGETED PROJECTS 2021-2022		(\$4,074,846)
EXPECTED ENDING BALANCE JUNE 30, 2022		\$1,861,337
<b>EXPECTED BALANCE JULY 1, 2022</b>		
		\$1,861,337
<b>2022-2023 PROJECTED INCOME TO RESERVE FUND</b>		
INTEREST	2,000	
CONNECTION FEES	5,000	
EXIT 16 DOUBLE DIAMOND FEDERAL HIGHWAY ADMINISTRATION GRANT	259,053	
ELECTRIC VEHICLE FLEET CONVERSION GRANT	500,000	
BUDGETED CAPITAL RESERVE TRANSFER	827,000	
TOTAL PROJECTED INCOME TO RESERVE FUND 2022-2023		\$1,393,053
<b>BUDGETED PROJECTS 2022-2023</b>		
VEHICLE REPLACEMENT PLAN	75,000	
FILTER CLARIFIER REBUILD PROGRAM	185,000	
TRANSMISSION SYSTEM IMPROVEMENTS PROGRAM	25,000	
PLANT RECONDITIONING PROGRAM	7,500	
PIPE INTEGRITY PROGRAM	30,000	
PLANT VALVE & ACTUATOR REPLACEMENT PROGRAM	40,000	
EXIT 16 DOUBLE DIAMOND	459,053	
WATER QUALITY EQUIPMENT PROGRAM	31,600	
RAW WATER TRANSMISSION MAIN - PS & RR TRACKS CROSSING	60,000	
THERMOCLINE / NORTH INTAKE BUNDLE	50,000	
TANK IMPROVEMENTS PROGRAM	148,285	
ASSET MANAGEMENT SOFTWARE	125,000	
SOURCE PROTECTION PLAN UPDATE	50,000	
ELECTRIC VEHICLE FLEET CONVERSION	500,000	
TOTAL BUDGETED PROJECTS 2022-2023		(\$1,786,438)
EXPECTED ENDING BALANCE JUNE 30, 2023		\$1,467,952
<b>EXPECTED BALANCE JULY 1, 2023</b>		
		\$1,467,952
<b>2023-2024 PROJECTED INCOME TO RESERVE FUND</b>		
INTEREST	2,000	
CONNECTION FEES	5,000	
THERMOCLINE / NORTH INTAKE BUNDLE (FROM BOND)	400,000	
LAKE WATER PUMP STATION EXPANSION (FROM BOND)	220,000	
CHEMICAL BUILDING ADDITION (FROM BOND)	500,000	
BUDGETED CAPITAL RESERVE TRANSFER	640,000	
TOTAL PROJECTED INCOME TO RESERVE FUND 2023-2024		\$1,767,000
<b>BUDGETED PROJECTS 2023-2024</b>		
VEHICLE REPLACEMENT PLAN	50,000	
TRANSMISSION SYSTEM IMPROVEMENTS PROGRAM	25,000	
PLANT RECONDITIONING PROGRAM	30,000	
RAW WATER PUMP STATION PUMP AND MOTOR REPLACEMENT PROGRAM	70,000	
RAW WATER PUMP CONTROL VALVE REPLACEMENT PROGRAM	30,000	
PIPE INTEGRITY PROGRAM	15,000	
PLANT VALVE & ACTUATOR REPLACEMENT PROGRAM	15,000	
WATER TREATMENT PLANT HVAC IMPROVEMENT STUDY	150,000	
WATER QUALITY EQUIPMENT PROGRAM	20,000	
LAKE WATER PUMP STATION EXPANSION	220,000	
THERMOCLINE / NORTH INTAKE BUNDLE	350,000	
TANK IMPROVEMENTS PROGRAM	153,363	
RAW WATER PUMP VFD	30,000	
SECURITY IMPROVEMENTS PROGRAM	25,000	
FLEET EQUIPMENT PROGRAM	50,000	
CHEMICAL BUILDING ADDITION	348,290	
TOTAL BUDGETED PROJECTS 2023-2024		(\$1,581,653)
EXPECTED ENDING BALANCE JUNE 30, 2024		\$1,653,299

**FISCAL YEAR 2022 – 2023 CAPITAL BUDGET SUMMARY**

**Funding Sources:**

A) Capital Reserve Fund Fiscal Year 2022-2023 Priorities	\$1,027,385
B) Capital Reserve Fund Fiscal Year 2022-2023 Bonded Projects	\$ 759,053
Total Capital Budget for FY 2022-2023	<u>\$1,786,438</u>

Note: The FY 2022-2023 budget is funding \$627,000 into line item #5100 – Current Year Capital Contribution. These funds will be transferred into CWD’s Capital Reserve Fund for funding planned future capital investments as shown on Pages 2, 3, 4 and 5 of the budget.

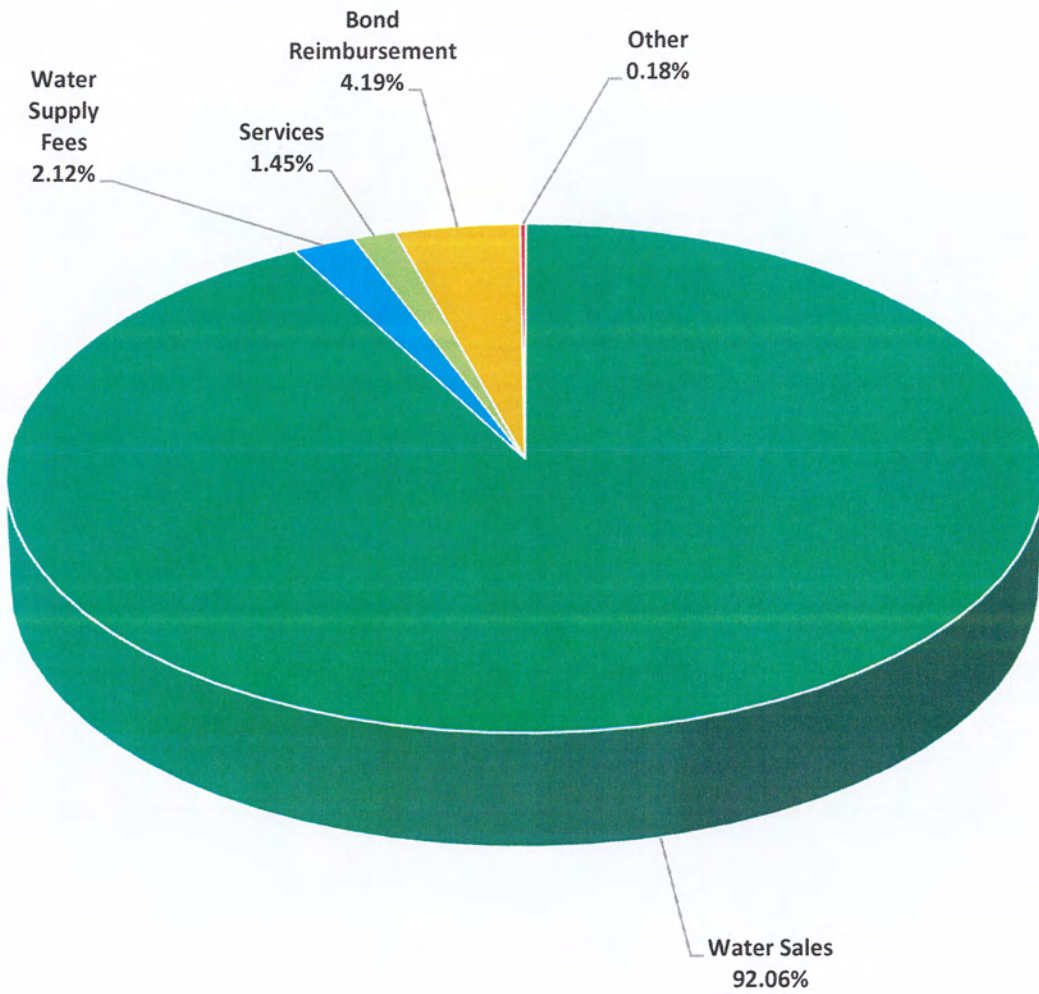
Champlain Water District Wholesale Department  
Budget Proposal  
July 1, 2022 to June 30, 2023

		BUDGET 2021-2022	PROPOSED BUDGET 2022-2023
<b>Revenue</b>			
Water Sales	4000	8,182,123.00	8,532,689.00
Interest Earned	4010	9,500.00	7,250.00
Administration Labor	4030	92,400.00	99,264.00
Miscellaneous Revenue	4060	10,000.00	5,000.00
Building Lease Revenue	4065	30,220.00	30,220.00
South Burlington Antennae Tower Lease	4068	4,600.00	4,600.00
Emergency On-Call	4070	3,700.00	4,920.00
Reimburse Water Supply Fees	4090	196,742.00	196,742.00
Williston Tank Bond Reimbursement	4100	55,310.00	55,306.00
Twin Tank Bond Reimbursement	4101	127,975.00	126,848.00
CT Improvement Bond Reimbursement	4102	8,675.00	8,646.00
CFD#1 Water Line Bond Reimbursement	4103	62,805.00	61,712.00
CFD#3 Water Line Bond Reimbursement	4104	-	135,577.00
<b>Total Revenue</b>		<b>8,784,050.00</b>	<b>9,268,774.00</b>
<b>Expenditures</b>			
Office Equipment	5010	17,220.00	25,690.00
Supplies and Tools	5011	60,860.00	68,670.00
Postage	5012	2,250.00	2,500.00
Phones, Internet, Data, and Pagers	5013	34,210.00	20,700.00
Wastewater and Stormwater	5014	6,000.00	6,000.00
Miscellaneous Expense	5017	4,700.00	7,955.00
Library and Printing	5018	5,000.00	6,000.00
General Insurance	5030	134,475.00	156,430.00
Commissioners	5040	13,450.00	17,660.00
Legal	5060	31,000.00	30,000.00
Audit	5061	24,500.00	26,000.00
Public Outreach	5065	4,250.00	4,675.00
Principal on Long Term Debt	5070	663,435.00	781,440.00
Interest on Long Term Debt	5071	415,589.00	464,400.00
Lease Payment - Long Term	5075	-	20,000.00
Water Supply Fees	5090	196,742.00	196,742.00
Capital Contribution - General	5100	620,000.00	627,000.00
Employee Insurance	5150	677,100.00	583,065.00
Employer Portion of Social Security & Medicare	5155	175,750.00	187,250.00
Employee Retirement	5160	171,800.00	195,520.00
Non-Bargaining Unit Salaries	5170	1,303,075.00	1,434,350.00
Bargaining Unit Salaries	5171	885,500.00	905,250.00
Overtime, Shift & Holiday	5172	65,000.00	65,000.00
Emergency On-Call Salaries	5173	7,000.00	7,250.00
Accrued Benefits	5174	5,000.00	15,000.00
Contracted Services	5175	3,660.00	3,696.00
Dues & Subscriptions	5200	23,285.00	32,645.00
Education & Training	5201	59,950.00	55,100.00

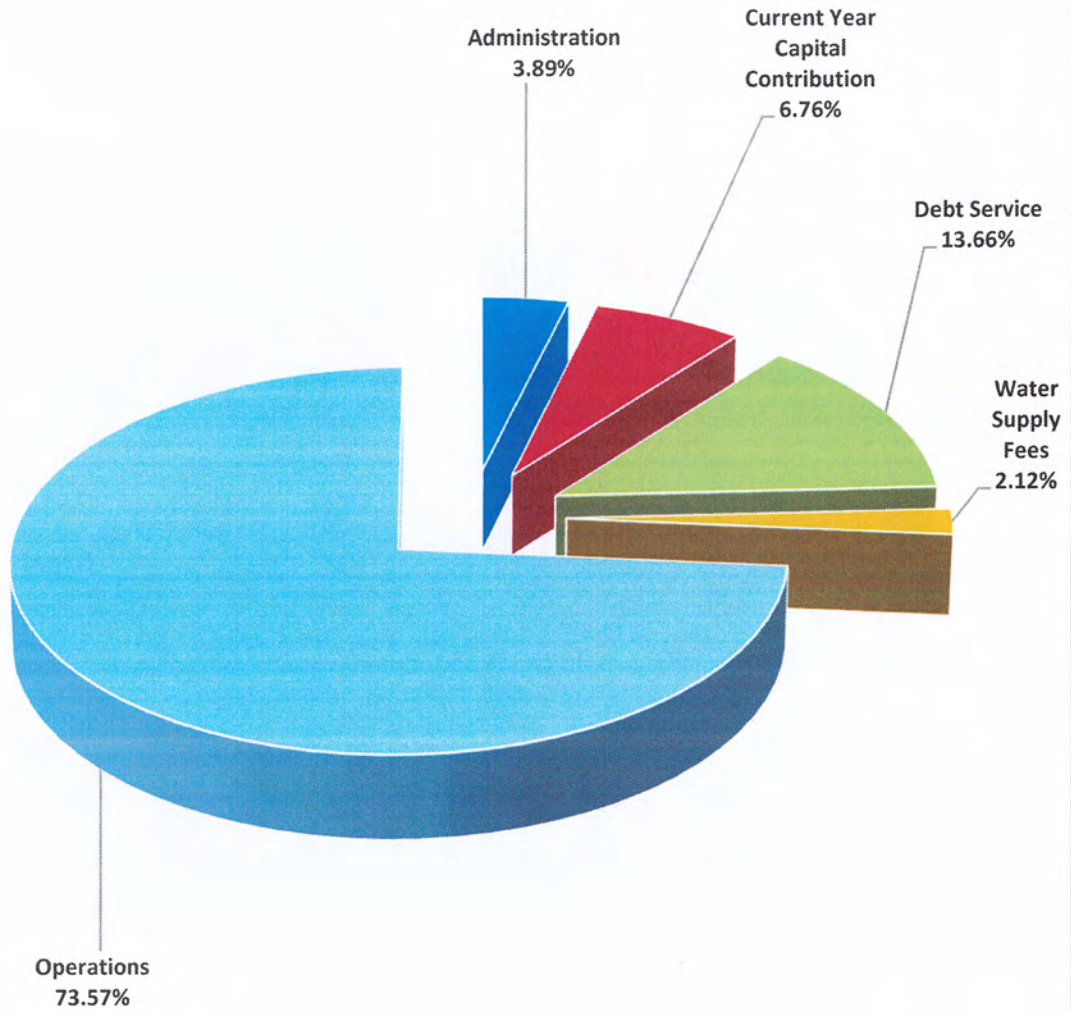
Champlain Water District Wholesale Department  
 Budget Proposal  
 July 1, 2022 to June 30, 2023

		BUDGET 2021-2022	PROPOSED BUDGET 2022-2023
Uniforms	5202	19,400.00	19,225.00
Computer Network	5210	87,565.00	140,980.00
Software Maintenance	5220	48,160.00	58,190.00
Safety	5230	21,230.00	25,320.00
Lake Monitoring Program	5240	16,125.00	16,610.00
Water Quality Sampling Program	5245	35,244.00	40,725.00
Hypochlorite	5260	87,325.00	96,200.00
HFA - Hydrofluosilicic Acid	5261	29,300.00	29,426.00
Polymers	5262	88,325.00	104,950.00
Alum	5263	41,000.00	39,490.00
Peroxide	5264	100.00	100.00
Zo-Zinc Orthophosphate	5265	67,320.00	90,652.00
Hydroxide	5266	44,200.00	51,100.00
Potassium Permanganate	5267	38,000.00	39,775.00
Ammonium Sulfate	5268	45,100.00	42,620.00
Power Activated Carbon	5269	500.00	500.00
Hazardous Waste Disposal	5280	3,300.00	3,450.00
Water Quality Equipment	5450	36,200.00	38,660.00
Electrical Power	5500	1,069,250.00	1,076,337.00
Efficiency Vermont Charges	5501	78,000.00	104,500.00
Facility Fuels	5550	18,000.00	17,500.00
Suez Long-Term Filter/Clarifier Contract	5600	192,145.00	191,707.00
Suez Long-Term Tank Maintenance Contract	5650	504,427.00	504,427.00
Electrical Instrumentation	5700	48,375.00	31,000.00
Radio System	5800	3,000.00	3,000.00
SCADA System	5900	27,380.00	27,700.00
Water Quality Process Equipment Maintenance	6000	76,485.00	92,242.00
Pump System Maintenance	6100	53,600.00	49,500.00
Water Storage Tank Maintenance	6150	46,310.00	11,500.00
Transmission Maintenance	6200	123,600.00	134,500.00
Wholesale Metering Maintenance	6250	13,200.00	14,000.00
Building & Grounds Maintenance	6300	111,500.00	114,500.00
Electrical Maintenance	6350	6,000.00	8,000.00
Vehicle & Light Duty Equipment Maintenance	6400	42,900.00	44,400.00
Residuals Maintenance	6500	26,733.00	34,900.00
Physical Security	6600	23,950.00	25,100.00
Total Expenditures		8,784,050.00	9,268,774.00
Net Revenue Over Expenditures		-	-

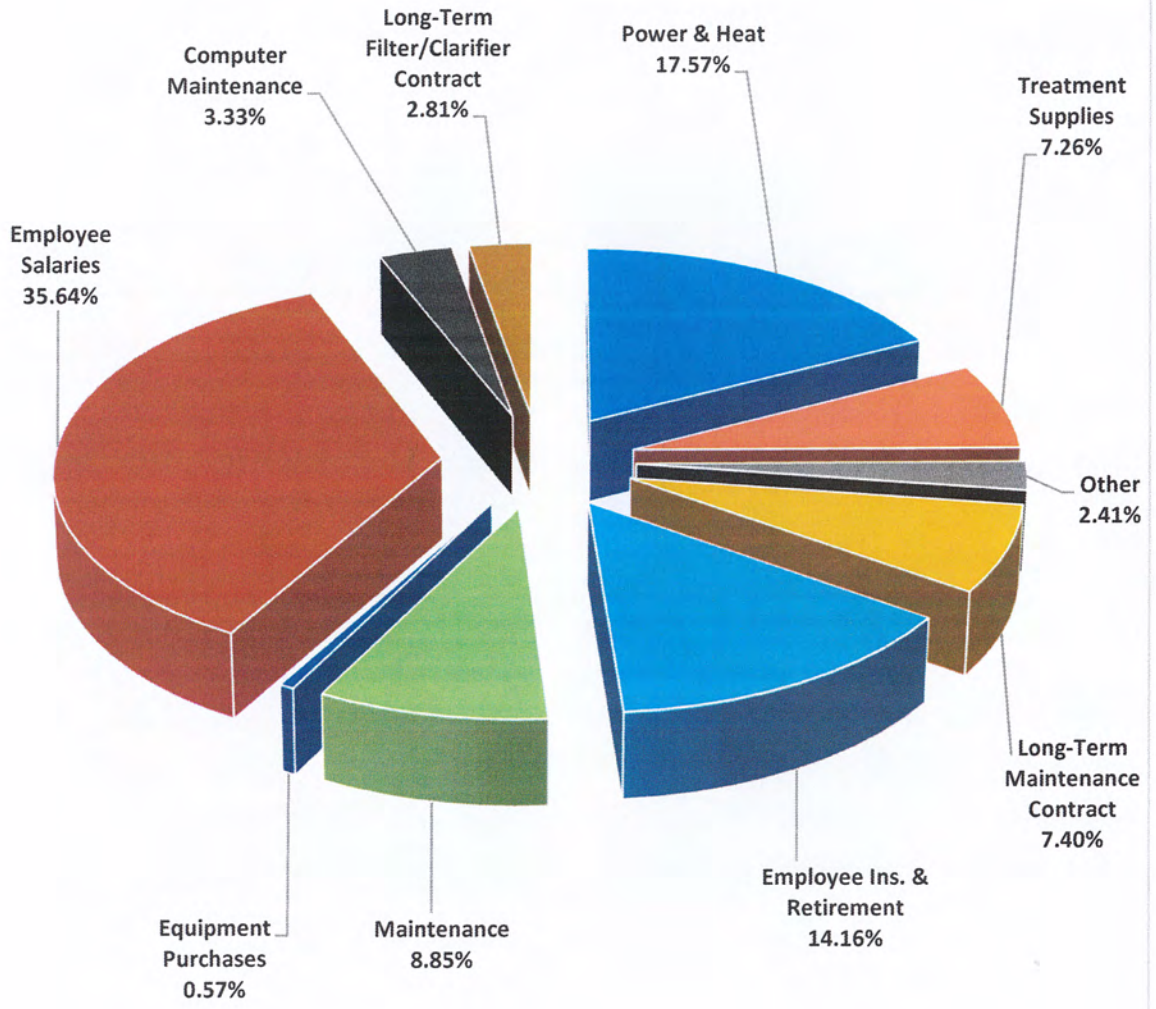
CHAMPLAIN WATER DISTRICT  
FY 2022-2023 BUDGETED WHOLESALE REVENUE OF \$9,268,774



CHAMPLAIN WATER DISTRICT  
FY 2022-2023 BUDGETED WHOLESALE EXPENSES OF \$9,268,774



CHAMPLAIN WATER DISTRICT  
FY 2022-2023 BUDGETED OPERATIONS EXPENSES OF \$6,818,912



Champlain Water District Retail Department  
Budget Proposal  
July 1, 2022 to June 30, 2023

		BUDGET	PROPOSED
		2021-2022	BUDGET 2022-2023
<b>Revenue</b>			
Interest Earned	4010	20.00	20.00
Fleet & Contractor Services	4015	40,550.00	44,452.00
Management Contracts	4020	391,044.00	615,744.00
Support Services	4021	493,034.00	622,935.00
Miscellaneous Revenue	4060	300.00	300.00
Building Lease Revenue	4065	30,312.00	30,220.00
Emergency On-Call	4070	11,200.00	11,645.00
<b>Total Revenue</b>		<b>966,460.00</b>	<b>1,325,316.00</b>
<b>Expenditures</b>			
Supplies and Tools	5011	1,500.00	1,700.00
Postage	5012	1,500.00	800.00
Phones, Internet, Data, and Pagers	5013	7,165.00	11,000.00
Miscellaneous Expense	5017	2,300.00	5,500.00
General Insurance	5030	15,300.00	19,825.00
Administrative Services	5050	92,400.00	99,264.00
Building Lease	5055	30,220.00	30,220.00
Legal	5060	3,500.00	3,000.00
Audit	5061	1,500.00	1,500.00
Capital Contribution - General	5100	10,000.00	15,000.00
Employee Insurance	5150	134,425.00	257,557.00
Employer Portion of Social Security & Medicare	5155	40,800.00	54,700.00
Employee Retirement	5160	38,000.00	51,530.00
Non-Bargaining Unit Salaries	5170	202,500.00	340,250.00
Bargaining Unit Salaries	5171	303,000.00	346,500.00
Overtime, Shift & Holiday	5172	15,000.00	15,000.00
Emergency On-Call Salaries	5173	7,500.00	7,500.00
Accrued Benefits	5174	5,000.00	5,000.00
Dues & Subscriptions	5200	800.00	1,000.00
Education & Training	5201	6,000.00	5,500.00
Uniforms	5202	5,500.00	6,425.00
Computer Network	5210	2,700.00	5,500.00
Software Maintenance	5220	500.00	500.00
Safety	5230	1,800.00	1,900.00
Radio System	5800	1,000.00	1,500.00
Vehicle & Light Duty Equipment Maintenance	6400	32,850.00	33,000.00
Emergency On-Call Coverage	6700	3,700.00	4,145.00
<b>Total Expenditures</b>		<b>966,460.00</b>	<b>1,325,316.00</b>
<b>Net Revenue Over Expenditures</b>		<b>-</b>	<b>-</b>



Colchester Town Water Department  
 Budget Proposal  
 July 1, 2022 to June 30, 2023

		BUDGET 2021-2022	PROPOSED BUDGET 2022-2023
<b>Revenue</b>			
Water Sales	4000	271,720.00	286,460.00
Water Assessment	4005	36,000.00	36,000.00
Private Hydrants / Sprinkler Systems	4035	5,100.00	5,200.00
Service Work	4036	500.00	200.00
Backflow Device Testing / Recording Fees	4037	1,000.00	600.00
Connection Fees	4040	1,000.00	1,000.00
Penalties	4050	500.00	500.00
Miscellaneous Revenue	4060	100.00	100.00
		315,920.00	330,060.00
<b>Total Revenue</b>			
<b>Expenditures</b>			
Supplies and Tools	5011	1,550.00	1,200.00
Postage	5012	1,400.00	1,400.00
Miscellaneous Expense	5017	325.00	400.00
Consulting Services	5051	1,500.00	1,300.00
Management Fees	5052	40,520.00	44,145.00
Contractors	5054	15,000.00	15,000.00
Legal	5060	1,000.00	1,000.00
Audit	5061	1,250.00	1,250.00
Public Outreach	5065	200.00	300.00
Principal on Long Term Debt	5070	21,295.00	21,795.00
Interest on Long Term Debt	5071	11,053.00	10,410.00
Water Purchase - CWD	5080	136,000.00	144,650.00
Water Supply Fees	5090	3,000.00	3,000.00
Capital Contribution	5100	12,000.00	14,287.00
Assessment Transfer To Capital	5110	27,352.00	27,354.00
Bargaining Unit Salaries	5171	25,000.00	25,825.00
Overtime, Shift, & Holiday	5172	2,500.00	2,500.00
Computer Network	5210	1,500.00	1,500.00
Vehicle & Light Duty Equipment Maintenance	6400	2,180.00	1,865.00
Emergency On-Call Coverage	6700	2,800.00	2,329.00
Distribution Materials	6800	8,495.00	8,550.00
		315,920.00	330,060.00
<b>Total Expenditures</b>			
<b>Net Revenue Over Expenditures</b>		-	-

Colchester Fire District #1  
Budget Proposal  
July 1, 2022 to June 30, 2023

		BUDGET	PROPOSED
		2021-2022	BUDGET 2022-2023
<b>Revenue</b>			
Water Sales	4000	138,000.00	141,930.00
Water Assessment	4005	57,621.00	57,621.00
Service Work	4036	100.00	100.00
Penalties	4050	100.00	100.00
Miscellaneous Revenue	4060	25.00	25.00
Transfer from Capital - Assessment	4850	5,180.00	3,791.00
Total Revenue		201,026.00	203,567.00
<b>Expenditures</b>			
Supplies and Tools	5011	625.00	500.00
Postage	5012	375.00	275.00
Miscellaneous Expense	5017	250.00	250.00
Consulting Services	5051	1,500.00	1,250.00
Management Fees	5052	14,965.00	16,265.00
Contractors	5054	10,000.00	10,000.00
Legal	5060	500.00	500.00
Audit	5061	1,250.00	1,250.00
Public Outreach	5065	100.00	100.00
Principal on Long Term Debt	5070	34,773.00	34,865.00
Interest on Long Term Debt	5071	33,013.00	31,830.00
Water Purchase - CWD	5080	75,000.00	79,800.00
Water Supply Fees	5090	1,600.00	1,600.00
Capital Contribution	5100	5,975.00	5,982.00
Bargaining Unit Salaries	5171	10,000.00	10,750.00
Overtime, Shift, & Holiday	5172	1,200.00	1,000.00
Computer Network	5210	300.00	300.00
Vehicle & Light Duty Equipment Maintenance	6400	1,100.00	1,221.00
Emergency On-Call Coverage	6700	2,800.00	2,329.00
Distribution Materials	6800	5,700.00	3,500.00
Total Expenditures		201,026.00	203,567.00
Net Revenue Over Expenditures		-	-

Colchester Fire District #3  
 Budget Proposal  
 July 1, 2022 to June 30, 2023

		PROPOSED BUDGET 2022-2023
<b>Revenue</b>		
Water Sales	4000	1,102,700.00
Service Work	4036	4,500.00
Connection Fees	4040	33,500.00
Penalties	4050	5,000.00
Miscellaneous Revenue	4060	500.00
		<hr/>
Total Revenue		1,146,200.00
 <b>Expenditures</b>		
Supplies and Tools	5011	5,000.00
Postage	5012	4,000.00
Miscellaneous Expense	5017	1,000.00
Consulting Services	5051	10,000.00
Management Fees	5052	208,247.00
Contractors	5054	80,000.00
Legal	5060	5,000.00
Audit	5061	1,500.00
Public Outreach	5065	1,000.00
Principal on Long Term Debt	5070	137,060.00
Interest on Long Term Debt	5071	56,610.00
Water Purchase - CWD	5080	462,700.00
Water Supply Fees	5090	9,500.00
Capital Contribution	5100	2,500.00
Bargaining Unit Salaries	5171	104,415.00
Overtime, Shift, & Holiday	5172	10,000.00
Computer Network	5210	5,000.00
Vehicle & Light Duty Equipment Maintenance	6400	11,919.00
Emergency On-Call Coverage	6700	2,329.00
Distribution Materials	6800	28,420.00
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Total Expenditures		1,146,200.00
 Net Revenue Over Expenditures		 <hr/> <hr/> -

**CWD RETAIL DEPARTMENT  
CAPITAL IMPROVEMENT PROGRAM**

As of 1/11/2022

Line Item #	Description	Item/Project Costs & Schedule							
		Actual FY 20-21	Expected FY 21-22	Proposed FY 22-23	Estimate FY 23-24	Estimate FY 24-25	Estimate FY 25-26	Estimate FY 26-27	
1000 CRE-1	Retail Cap. Reserve Fund Balance	414,717.11	443,644.00	393,596.61	338,596.61	298,596.61	256,596.61	211,596.61	166,596.61
1001 CRE-1	Retail Surplus	38,269.19	25,523.61	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
20-65-000-4150	Retail Encumbered Cash Reserves	10,000.00	10,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00
20-65-000-4010	Capital Reserve Interest	620.21	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00
<b>Total Revenue</b>		<b>48,889.40</b>	<b>36,523.61</b>	<b>11,000.00</b>	<b>11,000.00</b>	<b>11,000.00</b>	<b>11,000.00</b>	<b>11,000.00</b>	<b>11,000.00</b>
20-65-000-8000	Magnetic Locators	2,891.91	10,000.00						
3300 CRE	Office Furniture		5,000.00						
3325 CRE	Pipeline Tracer		5,305.00						
20-65-000-8001	Computer Tablets	3,132.36		1,000.00					
3375 CRE	Hydro-Vacuum Excavation Equipment								
20-65-000-7000	Vehicle Purchase	11,198.83	66,266.00	65,000.00	51,000.00	53,000.00	56,000.00	56,000.00	56,000.00
20-65-000-8002	AC Pipe Safety Equipment	2,739.41							
<b>Annual CRF Expenditures</b>		<b>19,962.51</b>	<b>86,571.00</b>	<b>66,000.00</b>	<b>51,000.00</b>	<b>53,000.00</b>	<b>56,000.00</b>	<b>56,000.00</b>	<b>56,000.00</b>
<b>End of Fiscal Year CRF Balance</b>		<b>443,644.00</b>	<b>393,596.61</b>	<b>338,596.61</b>	<b>298,596.61</b>	<b>256,596.61</b>	<b>211,596.61</b>	<b>166,596.61</b>	

**COLCHESTER TOWN WATER SYSTEMS (CT/MBWC)  
CAPITAL RESERVE FUND PLAN**

As of 01/11/2022

Project Costs & Schedule	Actual	Expected	Proposed	Estimate	Estimate	Estimate	Estimate
	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27
Beginning Balance (Including PY Surpluses)	154,068.95	218,987.75	228,261.98	219,213.98	238,165.98	250,457.98	103,689.98
Transfer to Capital - General	10,000.00	12,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Transfer to Capital - Assessment	35,620.00	36,000.00	36,000.00	36,000.00	29,340.00		
Connection Fees	1,000.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00
CT Capital Reserve Interest	107.49	100.00	100.00	100.00	100.00	100.00	100.00
Prior Year Surplus	18,191.31	15,322.23					
<b>Total Revenue</b>	<b>64,918.80</b>	<b>64,922.23</b>	<b>47,600.00</b>	<b>47,600.00</b>	<b>40,940.00</b>	<b>11,600.00</b>	<b>11,600.00</b>
AMR Project 2950.CRE		27,000.00	28,000.00				
Valve Rehabilitation - So. Park Drive 2930 CRE							
566 Hercules Drive 2955.CRE		20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00
Distribution System Improvements 2960.CRE							
PCE Issue Resolution 2940.CRE		8,648.00	8,648.00	8,648.00	8,648.00	138,368.00	
Colchester South Tank Loop - Debt Payment							
Annual CRF Expenditures	-	55,648.00	56,648.00	28,648.00	28,648.00	158,368.00	20,000.00
<b>End of Fiscal Year CRF Balance</b>	<b>218,987.75</b>	<b>228,261.98</b>	<b>219,213.98</b>	<b>238,165.98</b>	<b>250,457.98</b>	<b>103,689.98</b>	<b>95,289.98</b>

Note: The Colchester Town assessment revenue will be collected through fixed monthly payments from CT commercial customers only in the CT water system totalling \$35,620 in year one plus \$36,000/year for three years and \$29,340 for the fifth year. This will occur through the water system's annual operating budget with the same amount being transferred out of the operating budget and into this capital account. The CT debt repayment for the Colchester South Tank Loop project will begin in FY21/22 with annual loan repayment amounts of \$8,648/year to be paid out of this capital account for 20 years. We decided to pay back this SRF loan early after collecting the full amount of assessments needed by end of FY24/25.

Assessment Analysis:		CST Debt Paid:		Assessment Balance at 6/30/2027 - \$0	
Revenue Collected:				Regular Capital Res. Bal. at 6/30/2027 - \$95,289.98	
FY20/21	\$ 35,620.00	FY21/22	\$ 8,648.00		
FY21/22	36,000.00	FY22/23	8,648.00		
FY22/23	36,000.00	FY23/24	8,648.00		
FY23/24	36,000.00	FY24/25	8,648.00		
FY24/25	29,340.00	FY25/26	138,368.00		
<b>Total Revenue</b>	<b>\$ 172,960.00</b>	<b>Total Expenses</b>	<b>\$ 172,960.00</b>		

**COLCHESTER FIRE DISTRICT #1 WATER SYSTEM (CFD#1)  
CAPITAL RESERVE FUND PLAN**

Updated 01/11/2022

Project Costs & Schedule	Actual		Expected		Proposed		Estimate		Estimate		Estimate	
	FY 20-21	FY 21-22	FY 21-22	FY 22-23	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 25-26	FY 26-27	FY 26-27
Beginning Balance (Including PY Surpluses)	160,734.21	138,789.95	138,789.95	134,808.78	134,808.78	117,099.78	114,258.78	114,704.78	116,219.78	114,704.78	116,219.78	116,219.78
CFD#1 Surplus		5,123.83	5,123.83									
Transfer to Capital - General		5,975.00	5,975.00	5,982.00	5,982.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Transfer to Capital - Assessment	12,710.40						346.00		1,415.00		2,801.00	
Connection Fees												
CFD1 Capital Reserve Interest		17.67	100.00						100.00		100.00	100.00
Prior Year Surplus												
Deficit Reimbursement												
<b>Total Revenue</b>	<b>12,728.07</b>	<b>11,198.83</b>	<b>11,198.83</b>	<b>6,082.00</b>	<b>6,082.00</b>	<b>10,100.00</b>	<b>10,446.00</b>	<b>11,515.00</b>	<b>12,901.00</b>	<b>10,446.00</b>	<b>11,515.00</b>	<b>12,901.00</b>
<b>AMR Project</b>												
Distribution System Improvements	34,672.33	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Transfer to Budget - General												
Transfer to Budget-Assessment		5,180.00	5,180.00	3,791.00	3,791.00	2,941.00						
Annual CRF Expenditures	34,672.33	15,180.00	15,180.00	23,791.00	23,791.00	12,941.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
<b>End of Fiscal Year CRF Balance</b>	<b>138,789.95</b>	<b>134,808.78</b>	<b>134,808.78</b>	<b>117,099.78</b>	<b>117,099.78</b>	<b>114,258.78</b>	<b>114,704.78</b>	<b>116,219.78</b>	<b>119,120.78</b>	<b>114,704.78</b>	<b>116,219.78</b>	<b>119,120.78</b>

Note: The Colchester Fire District#1 assessment revenue will be collected through fixed quarterly payments from all CFD1 customers. This will occur through the water system's annual operating budget. The debt repayment for this assessment will be expensed through the operating budget as well. The difference between these two will be handled through this capital reserve account.

**Assessment Analysis:**

Revenue Collected:	\$	43,357.74
FY20/21		57,621.00
FY21/22		57,621.00
FY22/23		57,621.00
FY23/24		57,621.00
FY24/25		57,621.00
FY25/26		57,621.00
FY26/27		57,621.00
<b>Total Revenue</b>	<b>\$</b>	<b>389,083.74</b>

Water System Debt Paid:	\$	32,112.09
FY20/21		62,802.69
FY21/22		61,712.43
FY22/23		60,560.77
FY23/24		57,273.43
FY24/25		56,205.08
FY25/26		54,819.72
FY26/27		54,819.72
<b>Total Expenses</b>	<b>\$</b>	<b>385,486.21</b>

Assessment Balance at 6/30/2027 - \$3,597.53

Regular Cap. Res. Bal. at 6/30/2027 - \$115,523.25

**COLCHESTER FIRE DISTRICT #3 WATER SYSTEM (CFD#3)  
CAPITAL IMPROVEMENT PLAN**

Updated 01/11/2022

Project Costs & Schedule	Expected	Proposed	Estimate	Estimate	Estimate	Estimate	Estimate
	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	
Beginning Balance (Including PY Surpluses)	492,175.00	492,175.00	454,775.00	409,875.00	364,975.00	335,075.00	305,175.00
Transfer to Capital - General		2,500.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Transfer to Capital - Assessment							
Connection Fees							
CFD3 Capital Reserve Interest		100.00	100.00	100.00	100.00	100.00	100.00
Prior Year Surplus							
<b>Total Revenue</b>	-	2,600.00	10,100.00	10,100.00	10,100.00	10,100.00	10,100.00
<b>AMR Project</b>		25,000.00	25,000.00	25,000.00	20,000.00	20,000.00	20,000.00
Distribution System Improvements		15,000.00	15,000.00	20,000.00	20,000.00	20,000.00	20,000.00
Master Plan			15,000.00	10,000.00	10,000.00		
Annual CRF Expenditures	-	40,000.00	55,000.00	55,000.00	55,000.00	40,000.00	40,000.00
<b>End of Fiscal Year CRF Balance</b>	492,175.00	454,775.00	409,875.00	364,975.00	335,075.00	305,175.00	

# CHAMPLAIN WATER DISTRICT

- ◆ Chartered by the Vermont Legislature in 1971 as a Municipal Consolidated Regional Water Supply District (Facility “online” April 1973).
- ◆ Each member Town/City elects one Commissioner to the CWD Board of Commissioners for a three year term.

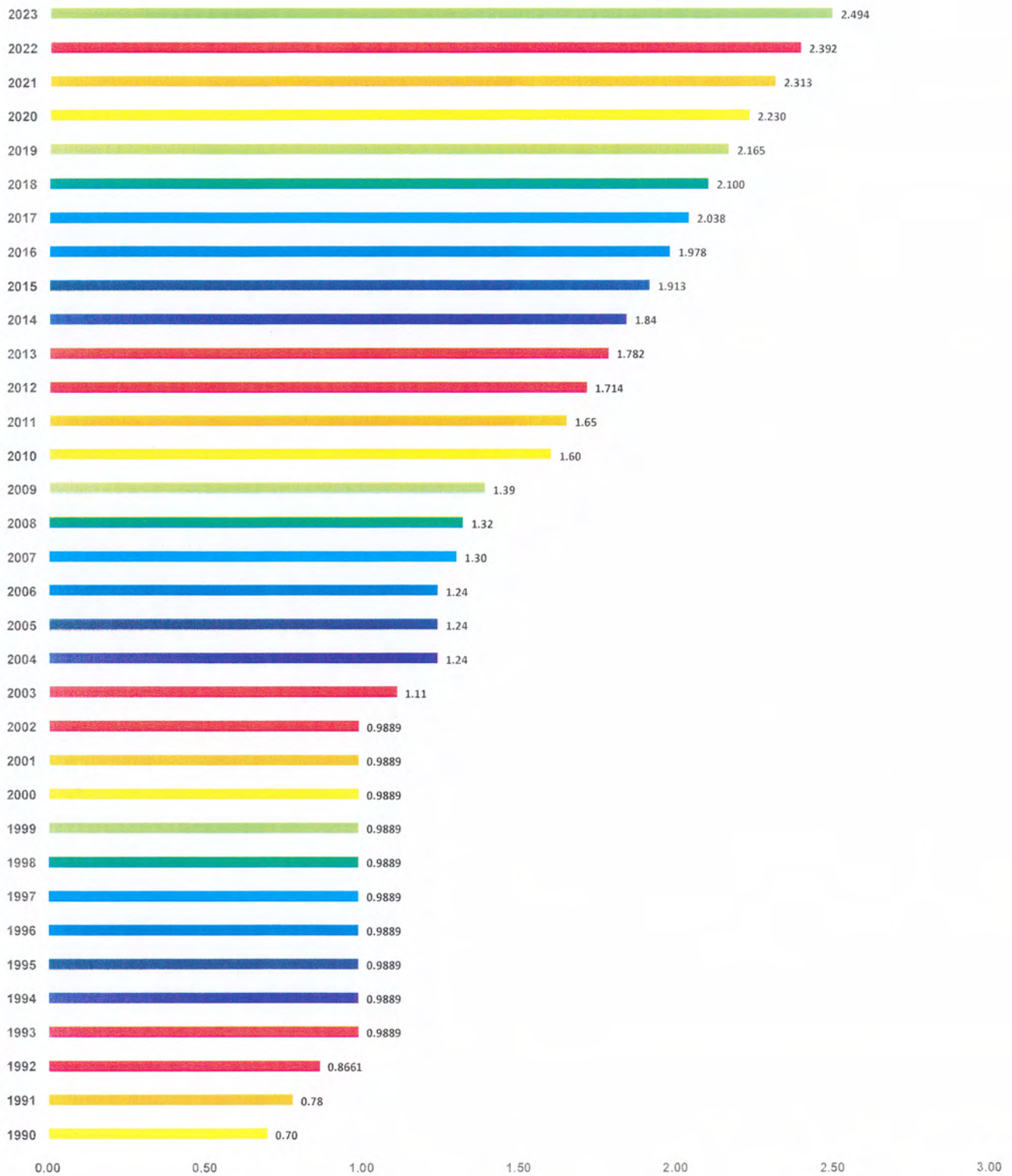
Present Elected Commissioners		Years of Service
Shelburne	Peter Gadue	8 Years
Williston	Liz Royer	6 Years
South Burlington	Dennis Lutz	8 Years
Winooski	Jonathan Stockbridge	5 Years
Essex	Aaron Martin	9 Years
Colchester	Karen Richard	23 Years
Milton	Ron Hubert	4 Years
Jericho Village	Robert M. Shand	33 Years

- ◆ Staff of 31 Employees Wholesale / 12 Employees Retail
- ◆ **CWD Source**
  - 2500 feet off shore at a depth of 75 feet in the cold, deep, underwater canyon within Lake Champlain’s Shelburne Bay.
- ◆ **Water Treatment:**
  - Preoxidation/Zebra Mussel treatment
  - Primary Disinfection to inactivate pathogens
  - Coagulation/Flocculation with adsorption clarification as pre-filtration
  - Deep Bed Multimedia Filtration for particle and natural organic material removal
  - Fluoridation for Vermont Department of Health Dental Division recommendations
  - pH adjustment to consistent, neutral pH
  - Secondary disinfection to ensure safe, effective residual throughout the distribution system, and to reduce formation of disinfection by-products
  - Corrosion control treatment to reduce lead and copper leaching from home plumbing
  - Reliable Capacity - 20 Million Gallons Per Day (MGD)
    - 2020-2021 Average: 9.74 MGD
    - Historical Peak Day: 14.00 MGD
- ◆ **Water Storage:**
  - Capacity – 15.5 MG in 19 separate storage tanks
- ◆ **Operating Budget:**

<u>Wholesale:</u>	2020-21	\$ 8,440,394	<u>Retail:</u>	2020-21	\$ 1,274,037
	2021-22	\$ 8,784,050		2021-22	\$ 1,483,406
	2022-23	\$ 9,268,774		2022-23	\$ 3,005,143
- ◆ **Water Rate** .....FY 2021-22 - \$2.392 / 1000 Gals.  
FY 2022-23 - \$2.494 / 1000 Gals.
- ◆ **Population Served** - ± 75,000

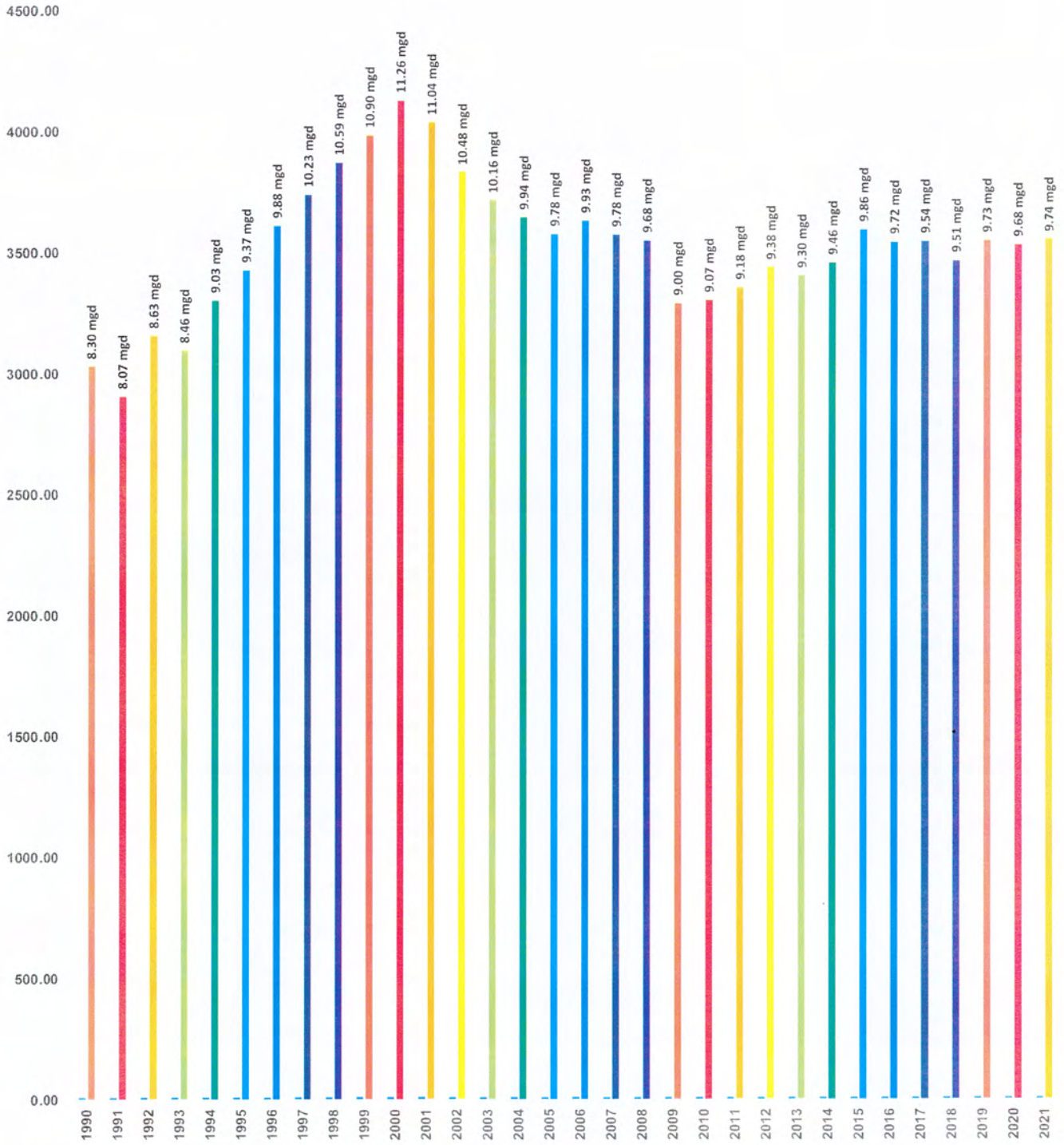


Champlain Water District  
Wholesale Water Rates  
1990-2023



Cost Per 1000 Gallons

# Champlain Water District Annual Water Sales
















Fiscal Year Ending

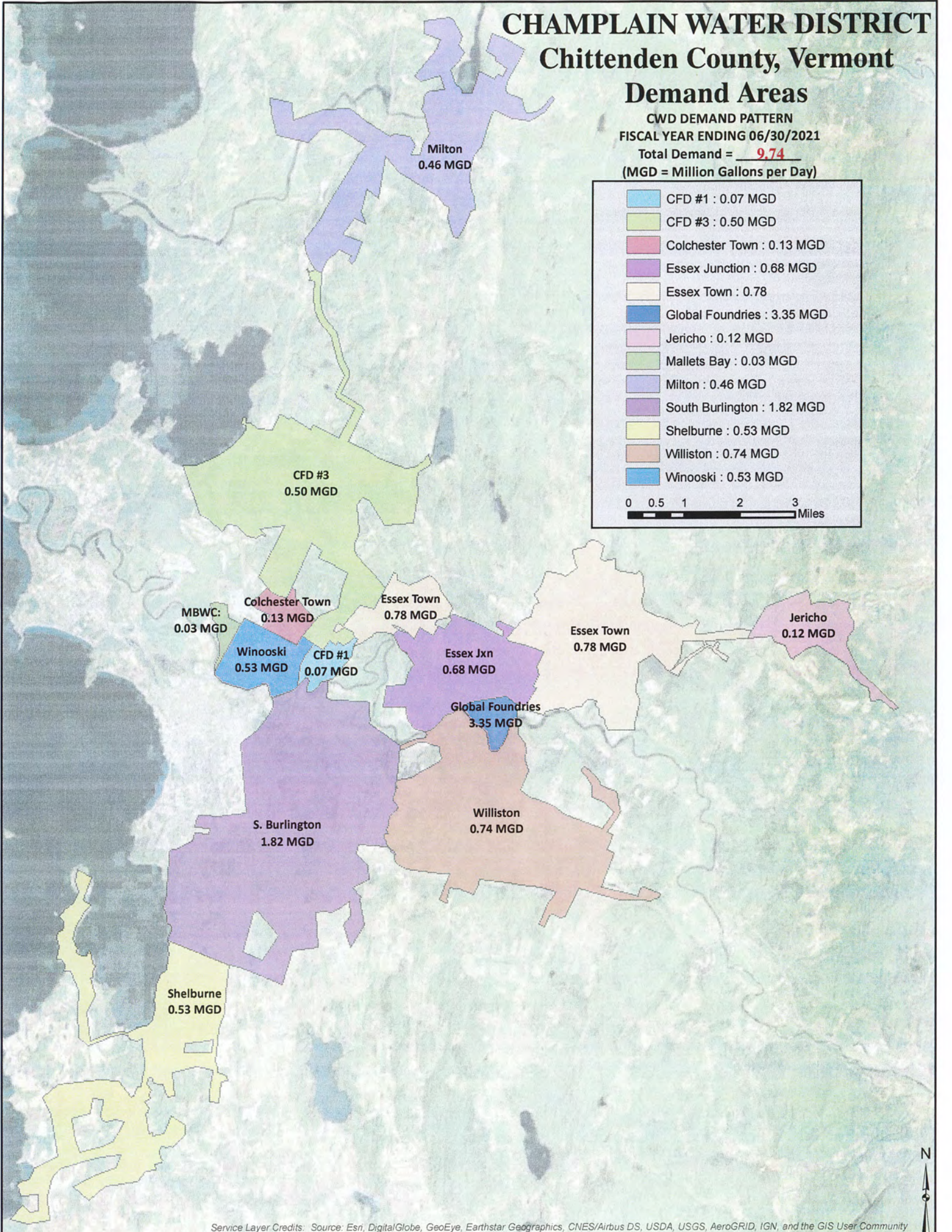
# CHAMPLAIN WATER DISTRICT Chittenden County, Vermont

## Demand Areas

CWD DEMAND PATTERN  
FISCAL YEAR ENDING 06/30/2021  
Total Demand = 9.74  
(MGD = Million Gallons per Day)

	CFD #1 : 0.07 MGD
	CFD #3 : 0.50 MGD
	Colchester Town : 0.13 MGD
	Essex Junction : 0.68 MGD
	Essex Town : 0.78
	Global Foundries : 3.35 MGD
	Jericho : 0.12 MGD
	Mallets Bay : 0.03 MGD
	Milton : 0.46 MGD
	South Burlington : 1.82 MGD
	Shelburne : 0.53 MGD
	Williston : 0.74 MGD
	Winooski : 0.53 MGD

0 0.5 1 2 3 Miles



MBWC: 0.03 MGD  
 Colchester Town 0.13 MGD  
 Winooski 0.53 MGD  
 CFD #1 0.07 MGD  
 Essex Town 0.78 MGD  
 Essex Jxn 0.68 MGD  
 Global Foundries 3.35 MGD  
 S. Burlington 1.82 MGD  
 Williston 0.74 MGD  
 Essex Town 0.78 MGD  
 Jericho 0.12 MGD  
 Milton 0.46 MGD  
 South Burlington 1.82 MGD  
 Shelburne 0.53 MGD  
 CFD #3 0.50 MGD

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**WHOLESALE DEPARTMENT  
FISCAL YEAR 2022-2023 DEBT SERVICE  
CHRONOLOGICAL BY MATURITY DATE**

**2004 SERIES 1 BONDS: \$410,000 FOR 20 YEARS**

**MATURITY DATE: 11/01/24**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ Colchester So. Twin Tank Project – Principal & Interest Reimbursed	\$410,000	Principal: 11/01/22 Interest: 11/01/22 Interest: 05/01/23	\$20,000 \$50 \$1,011
<b>TOTAL</b>	<b>\$410,000</b>		<b>\$21,061</b>

**2005 SERIES 1 BONDS: \$1,795,000 FOR 20 YEARS**

**MATURITY DATE: 11/01/25**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ Primary Power Electrical Upgrades	\$520,000	Principal: 11/01/22	\$90,000
◆ Chloramines Water Disinfection Processes including pH adjustment	\$622,000	Interest: 11/01/22	\$2,479
◆ Plant HVAC and Dehumidification Replacement	\$653,000	Interest: 05/01/23	\$6,001
<b>TOTAL</b>	<b>\$1,795,000</b>		<b>\$98,480</b>

**2006 SERIES 1 BONDS: \$275,000 FOR 20 YEARS**

**MATURITY DATE: 11/01/26**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ CFD#3 Depot Road Loop Water Replacement Project	\$275,000	Principal: 11/01/22 Interest: 11/01/22 Interest: 05/01/23	\$10,000 \$1,153 \$924
<b>TOTAL</b>	<b>\$275,000</b>		<b>\$12,077</b>

**2021 SERIES 3 and 4 BONDS: \$1,090,607 FOR 15 YEARS**

**MATURITY DATE: 11/01/35**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ Various Miscellaneous Capital Improvements	\$1,090,607	Principal: 11/01/22 Interest: 11/01/22 Interest: 05/01/23	\$72,707 \$7,818 \$7,600
<b>TOTAL</b>	<b>\$1,090,607</b>		<b>\$88,125</b>

**2015 STATE REVOLVING FUND LOAN: \$1,573,840 FOR 20 YEARS MATURITY DATE: 08/01/36**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ Colchester Twin Tank Construction – Principal, Interest, and Admin Fee Reimbursed	\$1,573,840	Principal: 08/01/22 Interest: 08/01/22 Admin Fee: 08/01/22	\$67,901 \$12,629 \$25,257
<b>TOTAL</b>	<b>\$1,573,840</b>		<b>\$105,787</b>

**2018 SERIES 2 BONDS: \$300,000 FOR 20 YEARS****MATURITY DATE: 11/01/38**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ CFD#3 Route 2 and Route 7 Water Replacement Project	\$300,000	Principal: 11/01/22 Interest: 11/01/22 Interest: 05/01/23	\$15,000 \$4,217 \$4,060
<b>TOTAL</b>	<b>\$300,000</b>		<b>\$23,277</b>

**2017 STATE REVOLVING FUND LOAN: \$1,287,665 FOR 20 YEARS MATURITY DATE: 07/01/39**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ Williston High Service Water Storage Tank – Principal, Interest, and Admin Fee (63.9% Reimbursed by Williston)	\$1,287,666	Principal: 07/01/22 Interest: 07/01/22 Admin Fee: 07/01/22	\$50,840 \$11,904 \$23,807
<b>TOTAL</b>	<b>\$1,287,665</b>		<b>\$86,551</b>

**2009 SERIES 1 BONDS: \$2,395,000 FOR 30 YEARS****MATURITY DATE: 11/01/39**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ Raw Water Intake Line	\$2,395,000	Principal: 11/01/22 Interest: 11/01/22 Interest: 05/01/23	\$80,000 \$27,325 \$33,191
<b>TOTAL</b>	<b>\$2,395,000</b>		<b>\$140,516</b>

**2017 STATE REVOLVING FUND LOAN: \$757,887 FOR 20 YEARS MATURITY DATE: 06/01/40**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ Close-In Cross-Tie – Principal, Interest, and Admin Fee	\$757,887	Principal: 06/01/23 Interest: 06/01/23 Admin Fee: 06/01/23	\$29,923 \$7,006 \$14,013
<b>TOTAL</b>	<b>\$757,887</b>		<b>\$50,942</b>

**2020 SERIES 1 BONDS: \$1,475,000 FOR 20 YEARS****MATURITY DATE: 11/01/40**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ CFD#3 Sunny Hollow Water Replacement Project	\$1,475,000	Principal: 11/01/22 Interest: 11/01/22 Interest: 05/01/23	\$73,750 \$13,694 \$13,311
<b>TOTAL</b>	<b>\$1,475,000</b>		<b>\$100,755</b>

**2020 STATE REVOLVING FUND LOAN: \$243,750 FOR 20 YEARS MATURITY DATE: 06/01/41**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ Colchester South Tank Loop – Principal, Interest, and Admin Fee	\$243,750	Principal: 06/01/23 Interest: 06/01/23 Admin Fee: 06/01/23	\$10,233 \$0 \$4,674
<b>TOTAL</b>	<b>\$243,750</b>		<b>\$14,907</b>

**2021 STATE REVOLVING FUND LOAN: \$1,450,000 FOR 20 YEARS MATURITY DATE: 03/01/42**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ Essex West Pump Station – Principal, Interest, and Admin Fee	\$1,450,000	Principal: 03/01/23 Interest: 03/01/23 Admin Fee: 03/01/23	\$72,500 \$0 \$0
<b>TOTAL</b>	<b>\$1,450,000</b>		<b>\$72,500</b>

**2012 SERIES 1 BONDS: \$2,500,000 FOR 30 YEARS MATURITY DATE: 11/01/42**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ River Cove Cross-Tie Project	\$2,500,000	Principal: 11/01/22 Interest: 11/01/22 Interest: 05/01/23	\$83,333 \$36,857 \$35,604
<b>TOTAL</b>	<b>\$2,500,000</b>		<b>\$155,794</b> ✓

**2013 SERIES 1 BONDS: \$950,000 FOR 30 YEARS MATURITY DATE: 11/01/43**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ CFD#1 Water Main Replacement Project	\$950,000	Principal: 11/01/22 Interest: 11/01/22 Interest: 05/01/23	\$31,667 \$14,860 \$15,185
<b>TOTAL</b>	<b>\$950,000</b>		<b>\$61,712</b> ✓

**2017 STATE REVOLVING FUND LOAN: \$3,875,000 FOR 30 YEARS MATURITY DATE: 09/01/49**

PURPOSE	AMOUNT	PAYMENT DUE DATE	AMOUNT DUE
◆ Filtered Water Tank and Expanded Wet Well – Principal, Interest, and Admin Fee	\$3,875,000	Principal: 09/01/22 Interest: 09/01/22 Admin Fee: 09/01/22	\$86,410 \$37,097 \$74,193
<b>TOTAL</b>	<b>\$3,875,000</b>		<b>\$197,700</b>

<b>GRAND TOTAL OF EXISTING DEBT – FISCAL YEAR 2022-2023</b>	<b>\$1,230,184</b>
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**SUMMARY OF EXISTING 2022-2023 DEBT**

<b>YEAR INCURRED</b>	<b>BOND AMOUNT</b>	<b>YEAR OF MATURITY</b>	<b>REMAINING PRINCIPAL</b>	<b>RATE %</b>
2004	\$410,000	2024	\$60,000	4.44%
2005	\$1,795,000	2025	\$355,000	4.21%
2006	\$275,000	2026	\$50,000	4.21%
2009	\$2,395,000	2039	\$1,435,000	4.67%
2012	\$2,500,000	2042	\$1,749,993	4.17%
2013	\$950,000	2043	\$696,667	4.17%
2015	\$1,573,840	2036	\$1,262,876	3.00%
2017	\$3,875,000	2049	\$3,709,657	3.00%
2017	\$1,287,665	2039	\$1,190,385	3.00%
2017	\$757,887	2039	\$700,630	3.00%
2018	\$300,000	2038	\$255,000	3.09%
2020	\$243,750	2041	\$233,718	2.00%
2020	\$1,475,000	2040	\$1,401,250	1.91%
2021	\$1,090,607	2035	\$1,017,790	1.47%
2021	\$1,450,000	2042	\$1,450,000	0.00%
<b>Total as of 07/01/22</b>			<b>\$15,567,966</b>	

**CHAMPLAIN WATER DISTRICT  
WHOLESALE DEPARTMENT  
BOND SCHEDULE  
FISCAL YEAR 2021-2022 TO 2024-2025**

FISCAL YEAR 2021-2022	PRINCIPAL	INTEREST	TOTAL	
2001 G.O.B. (\$ 2,400,000 - 20 YEAR)	\$120,000	\$540	\$120,540	
2004 G.O.B. (\$ 410,000 - 20 YEAR) - REIMBURSED	\$20,000	\$2,185	\$22,185	
2005 G.O.B. (\$ 1,795,000 - 20 YEAR)	\$90,000	\$12,739	\$102,739	
2009 G.O.B. (\$ 2,395,000 - 30 YEAR)	\$80,000	\$63,774	\$143,774	
2012 G.O.B. (\$ 2,500,000 - 30 YEAR)	\$83,333	\$74,910	\$158,243	
2013 G.O.B. (\$ 950,000 - 30 YEAR) - REIMBURSED CFD#1	\$31,667	\$31,135	\$62,802	
2015 G.O.B. (\$ 1,573,840 - 20 YEAR) - REIMBURSED	\$65,923	\$39,864	\$105,787	State Revolving Fund
2017 G.O.B. (\$ 757,887 - 20 YEAR)	\$29,051	\$21,890	\$50,942	State Revolving Fund
2017 G.O.B. (\$ 822,819 - 20 YEAR) - REIMBURSED	\$31,540	\$23,766	\$55,306	State Revolving Fund
2017 G.O.B. (\$ 464,847 - 20 YEAR)	\$17,819	\$13,426	\$31,245	State Revolving Fund
2020 G.O.B. (\$141,375 - PROPOSED 20 YEAR) - REIMBURSED	\$5,819	\$2,828	\$8,646	State Revolving Fund
2020 G.O.B. (\$102,375 - PROPOSED 20 YEAR)	\$4,213	\$2,048	\$6,261	State Revolving Fund
2020 G.O.B. (\$ 1,090,607 - 15 YEAR)	\$72,707	\$13,258	\$85,965	
2017 G.O.B. (\$ 3,875,000 - 30 YEAR)	\$83,893	\$113,807	\$197,700	State Revolving Fund
<b>TOTAL</b>	<b>\$735,965</b>	<b>\$416,169</b>	<b>\$1,152,134</b>	

FISCAL YEAR 2022-2023	PRINCIPAL	INTEREST	TOTAL	
2004 G.O.B. (\$ 410,000 - 20 YEAR) - REIMBURSED	\$20,000	\$1,061	\$21,061	
2005 G.O.B. (\$ 1,795,000 - 20 YEAR)	\$90,000	\$8,480	\$98,480	
2006 G.O.B. (\$ 275,000 - 20 YEAR) - REIMBURSED CFD#3	\$10,000	\$1,545	\$11,545	
2009 G.O.B. (\$ 2,395,000 - 30 YEAR)	\$80,000	\$60,516	\$140,516	
2012 G.O.B. (\$ 2,500,000 - 30 YEAR)	\$83,333	\$72,461	\$155,794	
2013 G.O.B. (\$ 950,000 - 30 YEAR) - REIMBURSED CFD#1	\$31,667	\$30,045	\$61,712	
2015 G.O.B. (\$ 1,573,840 - 20 YEAR) - REIMBURSED	\$67,901	\$37,886	\$105,787	State Revolving Fund
2018 G.O.B. (\$ 300,000 - 20 YEAR) - REIMBURSED CFD#3	\$15,000	\$8,277	\$23,277	
2017 G.O.B. (\$ 757,887 - 20 YEAR)	\$29,923	\$21,019	\$50,942	State Revolving Fund
2020 G.O.B. (\$1,450,000 - PROPOSED 20 YEAR)	\$59,677	\$29,000	\$88,677	State Revolving Fund
2017 G.O.B. (\$ 822,819 - 20 YEAR) - REIMBURSED	\$32,487	\$22,820	\$55,306	State Revolving Fund
2017 G.O.B. (\$ 464,847 - 20 YEAR)	\$18,353	\$12,892	\$31,245	State Revolving Fund
2020 G.O.B. (\$141,375 - PROPOSED 20 YEAR) - REIMBURSED	\$5,935	\$2,711	\$8,646	State Revolving Fund
2020 G.O.B. (\$102,375 - PROPOSED 20 YEAR)	\$4,298	\$1,963	\$6,261	State Revolving Fund
2020 G.O.B. (\$ 1,090,607 - 15 YEAR)	\$72,707	\$15,418	\$88,125	
2020 G.O.B. (\$ 1,475,000 - 20 YEAR) - REIMBURSED CFD#3	\$73,750	\$27,005	\$100,755	
2017 G.O.B. (\$ 3,875,000 - 30 YEAR)	\$86,410	\$111,290	\$197,700	State Revolving Fund
<b>TOTAL</b>	<b>\$781,440</b>	<b>\$464,389</b>	<b>\$1,245,829</b>	

FISCAL YEAR 2023-2024	PRINCIPAL	INTEREST	TOTAL	
2004 G.O.B. (\$ 410,000 - 20 YEAR) - REIMBURSED	\$20,000	\$419	\$20,419	
2005 G.O.B. (\$ 1,795,000 - 20 YEAR)	\$90,000	\$4,452	\$94,452	
2006 G.O.B. (\$ 275,000 - 20 YEAR) - REIMBURSED CFD#3	\$10,000	\$1,087	\$11,087	
2009 G.O.B. (\$ 2,395,000 - 30 YEAR)	\$80,000	\$56,511	\$136,511	
2012 G.O.B. (\$ 2,500,000 - 30 YEAR)	\$83,333	\$69,892	\$153,225	
2013 G.O.B. (\$ 950,000 - 30 YEAR) - REIMBURSED CFD#1	\$31,667	\$28,894	\$60,561	
2015 G.O.B. (\$ 1,573,840 - 20 YEAR) - REIMBURSED	\$69,938	\$35,849	\$105,787	State Revolving Fund
2018 G.O.B. (\$ 300,000 - 20 YEAR) - REIMBURSED CFD#3	\$15,000	\$7,953	\$22,953	
2017 G.O.B. (\$ 757,887 - 20 YEAR)	\$30,821	\$20,121	\$50,942	State Revolving Fund
2020 G.O.B. (\$1,450,000 - PROPOSED 20 YEAR)	\$60,871	\$27,806	\$88,677	State Revolving Fund
2017 G.O.B. (\$ 822,819 - 20 YEAR) - REIMBURSED	\$33,461	\$21,845	\$55,306	State Revolving Fund
2017 G.O.B. (\$ 464,847 - 20 YEAR)	\$18,904	\$12,341	\$31,245	State Revolving Fund
2020 G.O.B. (\$141,375 - PROPOSED 20 YEAR) - REIMBURSED	\$6,054	\$2,592	\$8,646	State Revolving Fund
2020 G.O.B. (\$102,375 - PROPOSED 20 YEAR)	\$4,384	\$1,877	\$6,261	State Revolving Fund
2020 G.O.B. (\$ 1,090,607 - 15 YEAR)	\$72,707	\$14,968	\$87,675	
2020 G.O.B. (\$ 1,475,000 - 20 YEAR) - REIMBURSED CFD#3	\$73,750	\$26,238	\$99,988	
2017 G.O.B. (\$ 3,875,000 - 30 YEAR)	\$89,002	\$108,697	\$197,700	State Revolving Fund
<b>TOTAL</b>	<b>\$789,890</b>	<b>\$441,544</b>	<b>\$1,231,435</b>	

FISCAL YEAR 2024-2025	PRINCIPAL	INTEREST	TOTAL	
2004 G.O.B. (\$ 410,000 - 20 YEAR) - REIMBURSED	\$20,000	-\$1,622	\$18,378	
2005 G.O.B. (\$ 1,795,000 - 20 YEAR)	\$90,000	\$925	\$90,925	
2006 G.O.B. (\$ 275,000 - 20 YEAR) - REIMBURSED CFD#3	\$10,000	\$661	\$10,661	
2009 G.O.B. (\$ 2,395,000 - 30 YEAR)	\$80,000	\$52,374	\$132,374	
2012 G.O.B. (\$ 2,500,000 - 30 YEAR)	\$83,333	\$67,198	\$150,531	
2013 G.O.B. (\$ 950,000 - 30 YEAR) - REIMBURSED CFD#1	\$31,667	\$25,607	\$57,273	
2015 G.O.B. (\$ 1,573,840 - 20 YEAR) - REIMBURSED	\$72,036	\$33,751	\$105,787	State Revolving Fund
2018 G.O.B. (\$ 300,000 - 20 YEAR) - REIMBURSED CFD#3	\$15,000	\$7,608	\$22,608	
2017 G.O.B. (\$ 757,887 - 20 YEAR)	\$31,745	\$19,197	\$50,942	State Revolving Fund
2020 G.O.B. (\$1,450,000 - PROPOSED 20 YEAR)	\$62,088	\$26,589	\$88,677	State Revolving Fund
2017 G.O.B. (\$ 822,819 - 20 YEAR) - REIMBURSED	\$34,465	\$20,841	\$55,306	State Revolving Fund
2017 G.O.B. (\$ 464,847 - 20 YEAR)	\$19,471	\$11,774	\$31,245	State Revolving Fund
2020 G.O.B. (\$141,375 - PROPOSED 20 YEAR) - REIMBURSED	\$6,175	\$2,471	\$8,646	State Revolving Fund
2020 G.O.B. (\$102,375 - PROPOSED 20 YEAR)	\$4,471	\$1,790	\$6,261	State Revolving Fund
2020 G.O.B. (\$ 1,090,607 - 15 YEAR)	\$72,707	\$14,473	\$87,180	
2020 G.O.B. (\$ 1,475,000 - 20 YEAR) - REIMBURSED CFD#3	\$73,750	\$25,467	\$99,217	
2024 G.O.B. (\$ 400,000 - PROPOSED 20 YEAR)	\$4,116	\$2,000	\$6,116	State Revolving Fund
2017 G.O.B. (\$ 3,875,000 - 30 YEAR)	\$91,672	\$106,027	\$197,700	State Revolving Fund
<b>TOTAL</b>	<b>\$802,696</b>	<b>\$417,132</b>	<b>\$1,219,828</b>	

**PROPOSED NEW BONDED DEBT**

\*ESSEX WEST PUMP STATION / PIPELINE INTERCONNECTION TO ESSEX TOWN SYSTEM - SRF

\*COLCHESTER SOUTH TANK LOOP - SRF

\*THERMOCLINE/NORTH INTAKE BUNDLE - SRF



