REPORTS OF THE OFFICERS

OF THE

DENNIS WATER DISTRICT

FOR THE

CALENDAR AND FISCAL YEAR

2015

DISTRICT OFFICIALS
2015

ELECTED OFFICIALS

WATER COMMISSIONERS	Term Expires
Paul F. Prue, Chairman, Dennis	2017
Charles F. Crowell, Vice Chairman, East Dennis	2016
Peter L. McDowell, Dennis	2018

MODERATOR

William E. Crowell, Jr., East Dennis	2018

APPOINTED BY MODERATOR

FINANCE COMMITTEE

David Talbott, Chairman	2017
James Plath	2017
Peter Nyberg	2018
Richard Roy	2016
Greg Stone	2016

EMPLOYEES APPOINTED BY WATER COMMISSIONERS

SUPERINTENDENT David Larkowski

CLERK & TREASURER Sheryl A McMahon

ASSISTANT SUPERINTENDENT James Ritchie

Administration
Karen Gaumont
Emily Finnegan
Ralph Luedeker (sporadic)
LeeAnn Marcotte
Louise McInnis

Water Works & Production
Peter Alex
George Avery
Robert Barboza
Andrew Carroll
Kenneth Davis
Stephan Drozell
David Griffin
Scott Hollis
Joshua Kelley
Joseph Kraul
Matthew Mason (resigned)
Jonathan Moore
Profirio Pina, Jr.
Brian Saunders

COUNSEL Pamela B Marsh, Esq. And Bruce Gilmore, Esq.

CONSULTING ENGINEERS Comprehensive Environmental, Inc.

REPORT OF THE
BOARD OF WATER COMMISSIONERS
2015

NEW ROUTE 28 WATER TANK

The beginning of the year brought to the forefront the much needed and anticipated maintenance and painting project for the 500,000 gallon elevated tank in West Dennis built in 1955. An independent analysis of the condition of the tank found areas of topcoat delamination suggesting questionable adhesion of a new coat of paint. There were also a number of structural deficiencies identified that would need to be repaired or replaced such as the roof hatch, lifting lugs, retention bolts, radial and sway rods (a few having already been removed because of failure) as well as scattered areas of heavy corrosion with metal loss. There are also worker safety features that need to be brought into code compliance. Due to the height of the tank and its proximity to residences, a full containment of the tank would be necessary for pressure washing, sand blasting and painting. Original estimates for this comprehensive maintenance project was approximately $1.2 million. With the support of the Finance Committee the project was funded by the voters at the Annual District Meeting in April.

In August, the bid results of $1.7 to $2.1 million far exceeded the authorized appropriation. The extraordinary cost of the containment system at $250,000, coupled with the type of repairs to be made to this open-legged style tank as well as a limited number of contractors submitting bids were major factors in the unexpectedly high bid results. In weighing the cost to rehabilitate the 60-year old tank with the construction of a new tank, the Board decided to investigate the construction of a complete replacement tank, either at the existing site or other District-owned property. In particular, the Board desired the focus of the study to identify and analyze the current and future demand for water in the West Dennis and Dennis Port areas and what size and design would best address the costs of construction and long-term maintenance.

In December, the Board received the report by Comprehensive Environmental, Inc. in which the development of a hydraulic computer model evaluated the effects of various tank sizes of up to 1.5 million gallons at two sites with current a future water use. It was determined that a one million gallon elevated tank would best meet current and future demands. Although both sites demonstrated comparable hydraulic benefits, the potential loss of over $100,000 of current cellular antenna lease revenue with additional future income potential generated by the Route 28 location was a determining factor in selecting the existing site for the new tank.

In reviewing the next steps in the decision making process, the Board would take the first two months of 2016 to decide which of the three most appropriate style of tank to construct. An appropriation for the entire project is anticipated for the April 2016 Annual District Meeting of approximately $4,000,000. If authorized, the design phase would be May-June, the bidding phase over the summer with construction commencing in the early fall of 2016. The project should take approximately 18 months to complete after which the existing tank would be removed. The Board anticipates funding the project with a transfer of $2 million from available funds and $2 million in a borrowing authorization. The Board does not anticipate any increase in water rates to accomplish this project.

WATER WITHDRAWAL PERMIT RENEWAL

Throughout the year, the Superintendent provided the Board with periodic reports on the status of the District's Water Withdrawal Permit renewal with the Department of Environmental Protection. Mr. Larkowski serves as Vice President of the Barnstable County Water Works Association and has helped lead a Cape-wide objection to the proposed imposition of significant reductions in the amount of water each water department would be allowed to withdraw annually. Original Draft permit reductions for Dennis was 125 million gallons per year. The Association was successful in obtaining an extension on the decision which will give the District, along with most other water suppliers on the Cape, the time and opportunity to continue the dialogue with state officials and to reach an amicable resolution.

STATUS OF POTENTIAL LAND SWAP WITH TRAILER PARK

During the late spring and early summer, the Board reviewed the status of a Land Court claim in which the owners of the seasonal trailer park on Old Chatham Road has laid claim to approximately 12 acres of land which abuts their land and the District's. Several years ago, the Board negotiated a potential swap with the owners. In exchange for three acres of land, the District would receive title to six acres. Special legislative approval has been enacted in the event the Land Court awards the ownership to the trailer park. However, as of year-end, the matter continues to be pending in the Land Court.

TRANSMISSION MAIN INTO DENNISPORT

The Board is proud to announce the completion of the third and final phase of the Transmission Main Extension Project which brought 9,500 feet of 12-inch water main into Dennis Port. The project was essential to bringing a buried distribution main to the south side which improved hydraulic flows and will ensure water in the event bridges that currently provide water distribution to that area are lost due to a natural disaster. The Board wishes to express its thanks to Robert Childs for the amicable negotiation of a 1,200-foot easement to connect the main from Great Western Road to Center Street.

The water works personnel and administrative staff, under the daily direction and supervision of management, continues to provide an excellent quality of service and product to the customers of the Dennis Water District, and for that we extend our many thanks.

BOARD OF WATER COMMISSIONERS

Paul F. Prue, Chairman
Charles F. Crowell, Vice Chairman
Peter L. McDowell

MINUTES OF THE ANNUAL DISTRICT MEETING
HELD ON APRIL 28, 2015

The Moderator, William E. Crowell, Jr., having declared a quorum of at least 25 voters present, called the meeting to order at 7:00 PM. The pledge of allegiance was recited. The Moderator then introduced the Board of Water Commissioners and Finance Committee.

The Moderator then proceeded with the reading of the Warrant. On a motion made, and duly seconded, those present VOTED: to waive the balance of the formal reading of the Warrant.

The Moderator reviewed the rules for conduct of the meeting and for the benefit of those in attendance he noted that the Finance Committee recommendations are printed in the Warrant with the exception of Article 1. He then called for the recommendation of the Water Commissioners which recommended acceptance of the Reports. He then called for the recommendation of the Finance Committee which recommended acceptance of the Reports. Mr. Moderator then called for a motions for the following articles:

ARTICLE 1. VOTED: To accept the Reports of the District Officers for the Fiscal and Calendar Year 2014 be accepted as printed, with the exception of printer's errors.

ARTICLE 2. VOTED: To transfer and appropriate the sum of $7,956 from the General Water District Revenues of the Fiscal Year 2016 for the salaries of the elected officials:

3 Water Commissioners at $2,550 each
1 Moderator at $306

ARTICLE 3. VOTED: To transfer and appropriate the sum of $3,157,519 from the Fiscal Year 2016 General Water District Revenues for the Operating and Maintenance Budget commencing July 1, 2015.

ARTICLE 4. VOTED: To transfer and appropriate the sum of $1,035,251 from the FY 2016 General Water District Revenues for the General Expenses commencing July 1, 2015 as printed in the warrant. General Expenses as follows:

Reserve Fund	$ 50,000
Principal on Loans	555,867
Interest and Fees on Loans	165,384
Independent Financial Reporting	17,000
Insurance Expense (Property, Workers' Comp, etc.)	135,000
Water Services	100,000
Household Hazardous Waste Collection Day	12,000

For a total of ***$1,035,251*** for the purpose of the article.

ARTICLE 5. VOTED: To transfer and appropriate $259,800 from Free Cash for:

Cleaning Wells & Pump Repairs	$ 80,000
Water Management Act Permit Renewal	10,0000
New Trucks w/Equipment	80,000
Construction Equipment (replace mini-excavator & compressor)	70,000
Miscellaneous Equipment (radios, copier, moles, drills)	19,800

And to sell or trade a 2003 3/4-ton pickup truck, a 2003 cargo van, and a 2005 mini-excavator, now in use, and to apply the funds received towards the new purchases.

And further, to transfer and appropriate $50,000 from Water Revenues of the Fiscal Year 2016 for:

Green Sand Replacement	$ 50,000

For a total of $309,800 for the purposes of the Article.

ARTICLE 6. UNANIMOUSLY VOTED: To transfer $200,753 from Water Revenues of the Fiscal Year 2016; $299,247 from Free Cash and to authorize the Treasurer, with the approval of the Board of Water Commissioners; and to borrow $200,000 for a total of $700,000 for the Maintenance & Power Washing of Water Tanks.

ARTICLE 7. UNANIMOUSLY VOTED: To transfer $20,000 from Transmission Main Extensions under Article 5 of the Annual District Meeting held April 22, 2014, and to transfer $10,000 from Free Cash for a total of $30,000, to acquire for water distribution purposes an easement by eminent domain with consent of the owner, containing .36 acres more or less, in a parcel of land of Robert Childs, shown on a plan of land entitled "Easement Plan of Land in South Dennis, Massachusetts, prepared for Dennis Water District, Scale 1" = 60', March 12, 2015, Demarest Land Surveying".

On a motion made and duly seconded the meeting was adjourned at 7:11 PM.

Respectfully submitted,

Sheryl A McMahon
District Clerk

DENNIS WATER DISTRICT
BALANCE SHEET
AS OF JUNE 30, 2015

	Detail	Debit	Credit
Cash - Unrestricted			
1020 · Petty Cash Advance	500.00		
1040-01 · Cooperative Bank of C C - M Market	382,990.33		
1040-02 · TD Bank Money Market	241,572.08		
1040-03 · Unibank Auto Cash	26,769.15		
1040-04 · Belmont Savings Bank	350,593.53		
1040-05 · Harbor One - Money Market	200,520.49		
1040-07 · Citizens Bank	202,856.19		
1040-08 · Cooperative Bank - Savings	10,126.77		
1040-10 · Citizens Bank - Checking	6,853.52		
1040-11 · Cooperative Bank of C C - Checking	-47,171.95		
1040-12 · Unipay - On Line	24,558.68		
1040-13 · Cape Cod 5 Money Market	28,102.08		
1040-14 · Unibank Remote Deposit	110,580.58		
1040-15 · Morgan Stanley	3,184.66		
1040-20 · Mass Municipal Deposit Trust	486,702.89		
Total Cash - Unrestricted		2,028,739.00	
Cash - Restricted			
1050-20 · Morgan Stanley-Stabilization	109,909.71		
Total Cash - Restricted		109,909.71	
Investments - Unrestricted			
1120-02 · Morgan Stanley	290,000.00		
1120-11 · MMDT Bond Fund	507,624.24		
Total Investments - Unrestricted		797,624.24	
1130 · Investments - Restricted			
1130-05 · Morgan Stanley	250,000.00		
1130-07 · Cape Cod 5-Stabilization Invest	733,741.48		
Total Investments - Restricted		983,741.48	
Accounts Receivable			
1410 · Water Receivables		69,927.35	
1415 · Water Liens Receivable			
1415-13 · FY 2013 Water Liens	1,009.55		
1415-14 · FY 2014 Water Liens	769.61		
1415-15 · FY 2015 Water Liens	3,031.14		
Water Liens Receivable		4,810.30	
1450 · Water Liens in Tax Title		5,409.15	
Tax Receivables			
1500-09 · FY 2009 R E Taxes	842.80		
1550 · Real Estate Taxes Deferred C41A	12.80		
1600-09 · FY 2009 P P Taxes	37.57		
1750 · Taxes in Litigation	473.71		
Total Tax Receivables		1,366.88	
Reserve Accounts			
3241 · Reserve for Mass Sales Tax	1,312.21		
3250 · Reserve for Petty Cash Advance	500.00		
3280 · Employee Insur Mitigation Fund	5,392.07		
3293 · Reserve for Sick Leave Buy Back	60,842.29		
3294 · Reserve for SDWA	14,298.88		
Total Reserve Accounts			82,345.45

BALANCE SHEET CONTINUED:

Payroll Liabilities			
2100-08 · Employee Direct Deposits	-0.02		
2100-09 · AFLAC NY Short Term Disability	251.43		
2100-10 · AFLAC NY Accident Insurance	0.48		
2100-11 · AFLAC NE Accident Insurance	467.58		
2100-12 · AFLAC NE Short Term Disability	428.79		
2100-13 · AFLAC NE Cancer Insurance	129.20		
2100-14 · AFLAC NE Life Insurance	189.24		
2100-15 · Eye-Med	42.90		
2100-50 · Health Insurance - Active	8,057.85		
2100-51 · Dental Insurance - Active	560.95		
2100-52 · Life Insurance - Active	23.78		
2100-53 · Health Insurance - Retirees	-300.80		
2100-54 · Dental Insurance - Retirees	15.84		
2520 · Tailings & Temporary Escrow	167.38		
Total Payroll & Tailings Liabilities			10,024.60
FY 2014 Accruals			
3175-01 · Accrued Payroll FY 2015	35,547.89		
3175-02 · Accrued Payables FY 2015	16,000.00		
3175-03 · Workers' Comp Audit Premiums	3,000.00		
Total FY 2014 Accruals			54,547.89
Designated Fund Balances			
3590 · Surplus Revenue			1,098,748.21
3600 · Stabilization Fund			1,093,651.19
3815 · Revenue Control FY 2016		4,451,479.00	
3885 · Appropriation Control FY 2016			4,451,479.00
Revenue Accounts			
4210 · Water Revenue	69,927.35		
4215 · Water Lien Revenue	10,219.45		
4220 · Property Tax Revenue	880.37		
4250 · Deferred Tax Revenue	486.51		
4850 · Unrealized Gains/Losses Invst	4,968.43		
Total Revenue Accounts			86,482.11
Appropriations			
5610 · Land Acquisition Expenses	9,407.81		
5640 · Cleaning Wells & Pump Repairs	117,505.67		
5650 · Household Hazardous Waste Day	149.57		
5660 · Leak Detection Survey	6,673.82		
5665 · Hydro Study Whites Pond	2,761.08		
5680 · Water Main Rehabilitation	73,732.24		
5831 · Water Withdrawal Permit Renewal	9,855.00		
5833 · Asbuilt Program	38,163.40		
5835 · Security Upgrades	29,372.63		
5838 · Construction Equipment 4/28/15	35,452.00		
5841 · New Trucks w/Equip 4/28/15	80,000.00		
5842 · Miscellaneous Equip - 4/28/15	4,389.21		
5865 · Tank Repairs & Power Washing	691,986.43		
5866 · Power Line Maintenance	37,617.96		
5867 · Transmission Main Extensions	190,309.75		
5870 · Green Sand Replacement	125,000.00		
6500 · Wastewater Studies	123,152.19		
Total Appropriatons			1,675,728.66
TOTAL		8,453,007.11	8,453,007.11

Debt Accounts		
7100 · Net Funded or Fixed Debt		6,792,125.96
7600-01 · Land for Watershed Protection	1,320,000.00	
7600-02 · Water Treatment Facilities	5,472,125.96	

DENNIS WATER DISTRICT
FISCAL YEAR 2015
REPORT OF RECEIPTS AND EXPENDITURES

Accounts	Detail	Totals
CASH		
1020 · Petty Cash Advance	500.00	
1040 Cash - Unrestricted	2.518.315.60	
1050 Cash - Restricted	1 088 910 00	
BALANCES AS OF JUNE 30. 2014		3.607.725.60
RECEIPTS		
RECEIVABLES		
1410 Water Receivables	4.270.862.51	
1415-12 · FY 2012 Water Liens	718 82	
1415-13 · FY 2013 Water Liens	3.455.70	
1415-14 FY 2014 Water Liens	16.279.44	
1415-15 · FY 2015 Water Liens	9 527 44	
1509 · FY 2009 Real Estate Taxes	106.88	
		4.300.750 79
PAYROLL AGENCIES		
2100-01 · Federal Income Tax Withheld	139.169.00	
2100 02 FICA/Medicare Taxes Withheld	15 812 28	
2100-03 · State Income Tax Withheld	63.183 28	
2100-04 · County Retirement Withholdings	114.284.78	
2100-06 Employee Direct Deposits	810 395 83	
2100-08 · AFLAC Short Term Disability	2.487 21	
2100-09 · Deferred Compensation	56.313.10	
2100-11 AFLAC NE Accident Insurance	5.133 37	
2100-12 · AFLAC NE Short Term Disability	4.620 47	
2100-13 · AFLAC NE Cancer Insurance	1.042.08	
2100-14 AFLAC NE Life Insurance	2.205.84	
2100-15 · EyeMed	868 56	
2100-50 · Health Insurance - Active	89.834.24	
2100-51 · Dental Premiums - Active	6.057.53	
2100-52 · Life Premiums - Active	294 08	
2100-53 · Health Premiums - Retirees	15.242.34	
2100-54 · Dental Premiums - Retirees	2.099.04	
2100 55 Life Premiums Retirees	149 84	
		1.329.192 63
RESERVES AND TAILINGS		
2520 Tailings · Unclaimed Property	1 803 84	
3175-01 · Accrued Payrolls FY 2015	35.547 89	
3175-03 · Workers' Comp Audit FY 2015	16.000.00	
3175-02 Accrued Accts Payable FY 2015	3.000.00	
3241 · Reserve for Mass Sales Tax		
3244 · Property & Casualty Claims	10.962.93	
3293 Reserve for Sick Leave Buy Back	4.236.62	
3600 Stabilization Fund	4 377 39	
		75.928.46
REVENUES		
4242 · Interest on Available Funds	4.331.79	
4640 Tank Rental Fees	298.485.85	
4645 Solar Revenue	17 590 30	
4841 · Miscellaneous Receipts	18.939 37	
4850 · Unrealized Gains/Losses from Investments	4,968.43	
		344.315 74
TOTAL RECEIPTS AND CASH BALANCES AS OF JUNE 30. 2015:		8.657.913.22
EXPENDITURES		
RECEIVABLES - Refunds & Abatements		
1410 Water Receivables	2 078 79	
		2.078 79
PAYROLL AGENCIES		
2100-01 Federal Income Tax Withheld	139 169 00	
2100-02 · FICA/Medicare Taxes Withheld	15.812 28	
2100-03 · State Income Tax Withheld	63.183.28	
2100-04 County Retirement Withholdings	116.551.84	
2100-06 · Employee Direct Deposits	810.395 85	
2100-08 · AFLAC Short Term Disability	2.473.64	
2100-09 · Deferred Compensation	56.313.10	

EXPENDITURES CONTINUED .

2100-11 AFLAC NF Accident Insurance	5 051 87	
2100-12 · AFLAC NE Short Term Disability	4.548.01	
2100-13 AFLAC NE Cancer Insurance	1.042.08	
2100-14 AFLAC NE Life Insurance	2 205 84	
2100-15 · EyeMed	866.76	
2100-50 · Health Insurance - Active	88.545.12	
2100-51 Dental Premiums	5 963 04	
2100-52 · Life Insurance Premiums - Active	292.32	
2100-53 ·Health Insurance Premiums - Retirees	15.360.08	
2100 54 Dental Insurance Premiums Retirees	2 170 68	
2100-55 ·Life Insurance Premiums - Retirees	153.12	
		1,330,097.69
RESERVES		
2520 · Tailings - Unclaimed Property	1.846.26	
3174-02 · FY 2014 Accrued Accts Payable	11.765.75	
3241 Reserve for Mass Sales Tax	3 238 42	
3244 · Property & Casualty Claims	12.601 80	
3260 · Employee Insurance Mitigation Fund	5.613.02	
3293 Accrued Sick Leave Buy Back	7 588 80	
3294 · Reserve for SDWA	8,577 91	
		51,231.96
REFUNDS		
4841 · Miscellaneous Receipts (Refund Town of Dennis)	2.940 76	
		2,940.76
OPERATING & MAINTENANCE		
5000-01 · Gasoline	28.395 59	
5000-02 · Tractor Expense	5.856.22	
5000-03 Truck Maintenance & Repairs	15 694.75	
5000-04 · Misc Equip Repairs & Mainten	8.503 71	
5000-05 · Electricity	291.762.51	
5000-06 Diesel Fuel	13.477.16	
5000-07 · Heating - Natural Gas	3.485 00	
5000-09 · Sick Leave Buy-Back	23.539.50	
5000-11 Treatment Chemicals	238.742.52	
5000-12 · Propane Gas	16 460 43	
5000-13 · Treasurer's Expense	1.983.12	
5000-14 Technical Services	5.360.00	
5000-15 Mains & Hydrants	22 871 75	
5000-16 · Legal Services	1.259.50	
5000-17 · Postage Expenses	21.152.58	
5000-18 Printing & Advertising	13 158 74	
5000-19 · Office Expenses	8.176.35	
5000-20 · Tool Expense	8.569.40	
5000-21 Meters & Parts	88 386 38	
5000-23 · Superintendent's Expense	1.109.70	
5000-24 · Licenses. Dues & Training	5.132.45	
5000-26 Safety Equipment & Supplies	1 301 98	
5000-27 · Substance Abuse Free Workplace	545.00	
5000-28 · Communication Expenses	14.771.81	
5000 29 FICA/Medicare & UHI Tax Expense	17 201 85	
5000-31 · County Retirement Assessment	243.107.00	
5000-34 · Computer Expenses	15.150.00	
5000-35 Uniforms Rugs Rentals	17 572 39	
5000-36 · Rubbish Removal	1.476 25	
5000-37 · General Supplies	1.834.97	
5000-38 Other Necessary Expenses	2 208 50	
5000-40 · Water Quality Expenses	19.855 46	
5000-60 · Payroll - Office & Admin	403.501.42	
5000-61 Payroll - Water Works	840 090 15	
5000-62 · Payroll - On Call Duty	36.315 44	
5000-63 · Payroll - Station Duty	56.370.07	
5000-64 Payroll - Overtime	41 753 10	
5000-66 · Payroll - Def Comp DWD Share	23.086 50	
5000-67 · Payroll - Longevity	12.589.00	
5010 · Repairs & Maintenance	86 850.26	
5030 · Group Insurance Costs	339.327 54	
		2,997,786.05
APPROPRIATIONS		
5130 · Elected Officials Salaries	7.956 00	
5140 · Principal on Debt	555.866.14	
5150 Interest & Admin Fees on Debt	180.798.76	
5160 · Independent Financial Reports	16 000 00	
5170 · Insurance Expense	101.365.41	
5190 · Water Services	91.702.10	

EXPENDITURES CONTINUED....

5640	Cleaning Wells & Pump Repairs	142,426.75	
5650	Household Hazardous Waste Collection Day	22,735 67	
5660 ·	Leak Detection Survey	1,541.08	
5680 ·	Water Main Rehabilitation	3,420.91	
5830 ·	Easement Great Western Road	30,000 00	
5831 ·	Water Withdrawal Permit	145.00	
5833 ·	Asbuilt-GIS Program	3,711.57	
5838 ·	Construction Equipment	34,548 00	
5839 ·	New Truck w Equip 4 22/14	16,980.96	
5842	Miscellaneous Equipment 4/28/15	15,296.79	
5848	Miscellaneous Equipment 4/24 14	5,456 12	
5865 ·	Tank Repairs & Power Washing	2,757.85	
5867 ·	Transmission Main Project	2,039.51	
5868	Wells 5 & 22 - Fe Mn Removal	118,994 92	
			1,353,763 54
CASH			
1020	Petty Cash Advance	500 00	
1040 ·	Cash - Unrestricted	2,825,863 24	
1050 ·	Cash - Restricted	1,093,651.19	
	BALANCES AS OF JUNE 30, 2015		3,920,014.43
	TOTAL EXPENDITURES AND CASH BALANCES.		5,657,913.22

SALARY & WAGES FY 2015

	Elected Officials Salary	Regular	Overtime	Special Projects	Longevity	Sick Leave Buy Back	Deferred Comp	TOTAL
Alex, Peter W		48,629.59	2,614.66	449.56			1,300.00	52,993.81
Avery, George A		66,006.76	1,640.15	59.55	1,800.00	10,118.40	1,300.00	80,924.86
Barboza, Robert J		70,449.14	23,741.68	1,480.70	1,000.00	2,699.20	1,300.00	100,670.72
Carroll, Andrew W		45,142.57	227.02	523.97			1,300.00	47,193.56
Crowell, Charles F	2,550.00							2,550.00
Crowell, William E	306.00							306.00
Davis, Kenneth J		60,176.18	15,073.38		500.00	50.44	780.00	76,580.00
Finnegan, Emily		14,997.44					585.00	15,582.44
Gaumont, Karen		61,971.84			300.00		1,300.00	63,571.84
Griffin, David W		61,171.84	29,383.59	76.13	1,300.00	912.66	1,300.00	94,144.22
Hollis, Scott A		57,273.90	3,847.55	95.71			1,300.00	62,517.16
Kelley, Joshua D		39,400.61	518.99	765.28			520.00	41,204.88
Kraul, Joseph D		43,763.90	731.50	1,811.16	189.00	174.15	819.00	47,488.71
Larkowski, David A		108,500.03	6,935.49	1,299.00	2,000.00	4,156.80	1,300.00	124,191.32
Luedeker, Ralph H		5,704.18						5,704.18
Marcotte, LeeAnn		41,896.15					1,300.00	43,196.15
Mason, Matthew T		37,584.00	1,278.00	507.36			775.00	40,144.36
McDowell, Peter L	2,550.00							2,550.00
McInnis, Louise S		58,777.25					1,300.00	60,077.25
McMahon, Sheryl A		108,500.03			1,800.00	4,156.80	1,300.00	115,756.83
Moore, Jonathan C		56,188.24	1,816.68	1,940.99			1,300.00	61,245.91
Pina Jr, Profirio J		68,528.18	1,009.24	1,045.20	1,000.00		1,300.00	72,882.62
Prue, Paul	2,550.00							2,550.00
Ritchie, James E		89,909.30	20,482.48	26.00	1,200.00	1,959.23	1,300.00	114,887.01
Saunders, Brian J		69,530.42	21,083.43	256.48	1,500.00	2,664.00	1,300.00	96,334.33
Teixeira, Anthony		1,394.37					29.25	1,423.62
TOTAL	7,956.00	1,215,495.92	130,393.84	10,337.09	12,589.00	26,891.68	23,008.25	1,426,671.78

REPORT OF THE SUPERINTENDENT
2015

This year the District made progress in an array of areas starting with the completion of the third and final phase of a 12" transmission main extension from our water supply wells north of Route 6 into Dennis Port. The completion of this 9,500' extension strengthens the distribution system in the delivery and supply of domestic and fire service to this area. All three phases were completed by District personnel and equipment.

Shortly thereafter, the District focused on completing the final phase of a project to redirect raw water from Well 5 from the distribution system and into the South Water Filtration Plant. Well 11 had been redirected earlier to the North side treatment facility for iron removal. The Secondary Maximum Contaminant Level for Manganese is .05 milligrams per liter (mg/l). Well 5 has a high level of Manganese at about .09 mg/l. Although Manganese is an element naturally occurring here on the Cape, at this level it can in can cause color, taste and odor problems. Once the water pumped from Well 5 was redirected to the treatment plan, water quality results show that virtually all of the manganese is being removed by the plant. The new maximum daily capacity of both treatment plants' filtering capabilities is now 9.7 million gallons per day. Again, all this work was completed by District staff and equipment.

Just before the summer began, the District, along with all other Cape water suppliers, received new draft Water Management Act Permits from the Massachusetts Department of Environmental Protection (DEP). The Cape suppliers, through our local Barnstable County Water Utilities Association, has been opposing an effort by DEP to significantly reduce the amount of withdrawal allowed by the permits. This latest draft still proposes a reduction of 105 million gallons a year by the District. The basis of the Cape suppliers concerns is that there is no scientific evidence that there is a problem with the amount of water currently being withdrawn on Cape Cod. In fact there is more evidence that would support increases in permits without consequences to our aquifer. With the assistance of Representative Tim Whelan, the BCWUA caught the attention of the Lieutenant Governor Karyn Polito. This started a chain of meetings with the Commissioner of the Department of Environmental Protection. At the end of 2015, our efforts were making progress and DEP was listening to our local knowledge and experience. We expect that the renewal permits to be issued soon will be reasonable and something we can all be in agreement.

The District has undertaken a Water Tank Rehabilitation program that we have been working on for about five years. This year, the 500,000-gallon elevated tank in West Dennis was scheduled for repairs and painting. Original estimates for this work was about $1.2 million but, when the work was bid it was evident that water tanks of this style are not popular with contractors. The scope of work being contemplated presents a number of difficult challenges which increases costs considerably. Only two bids were received, one for $1.7 and the other for $2.1 million. With bids far exceeding the appropriation authorized, the Board of Water Commissioners considered replacing the tank. The District undertook a system study which clearly demonstrated the benefit of a new one-million gallon tank where built to replace the existing tank. As the close of 2015 approached, the Board was evaluating tank styles and costs estimates for further evaluation and discussion.

In the meantime, the District continued with the water tank maintenance program and moved on to the next scheduled project. The 2.7-million gallon Hokum Rock Tank was built in 1997. The exterior paint is original and in need of reconditioning with some minor repairs. Power washing, spot grinding, priming and topped with two costs of finish paint were put developed into a scope of work and put out to bid in the late fall. Limerick Steeplejacks Inc. from Maine were the low bidder at $233,000. The work is weather dependent but, is tentatively scheduled to begin in April of 2016.

The amount of water pumped for this calendar year was the highest on record for the District at 1,169,000,000 gallons, slightly beating 1994 with 1,154,000,000. The current District withdrawal permit allows 1,189,000,000 leaving just 20,000,000 as a cushion. If DEP had issued the new water withdrawal permit at the limit originally proposed of 1,084,000,000, the District would have been in violation. In fact, the District has exceeded that proposed limit five times since 1993. One of the greatest benefits of the aquifer on the Cape is that it is an incredibly vast water supply. Yes, it is vulnerable in many ways yet, the water suppliers across the Cape have been good stewards of our resources and will continue to be. Personally, I would like to thank everyone who has helped throughout the permit process so that we can continue to operate under the limits that have served us well for 25 years.

I would like to extend my thanks to the Board of Water Commissioners for their continued support and guidance and to my fellow employees for all of their hard work and dedication serving the customers of the District throughout the year.

Respectfully Submitted,

David Larkowski
Superintendent

Pumping Equipment Operations 2015

	# of days
Main Station – Old Bass River Road	
5 submersible electric pumps with a total capacity of 700 gpm pump	162
Sub-Station 1 – Old Chatham Road	
40 hp electric motor w/350 gpm pump	158
Sub-Station 2 – Old Chatham Road	
20 hp electric motor w/200 gpm pump	158
Sub-Station 3 – Old Chatham Road	
20 hp electric motor w/250 gpm pump	158
Sub-Station 4 – Old Bass River Road	
30 hp electric motor w/350 gpm pump	153
85kW generator	20 hrs
Sub-Station 5 – Route 134	
30 hp electric motor w/450 gpm pump	152
Sub-Station 6 – Old Bass River Road	
30 hp electric motor w/150 gpm pump	164
Sub-Station 7 – Airline Road	
40 hp electric motor w/450 gpm pump	182
60 hp lp gas engine w/right angle drive	0 hrs
Sub-Station 8 – Airline Road	
40 hp electric motor w/350 gpm pump	182
60 hp lp gas engine w/right angle drive	0 hrs
Sub-Station 9 – Grassy Pond Drive	
75 hp electric motor w/650 gpm pump	195
75kW generator	18 hrs
Sub-Station 10 – Airline Road	
75 hp electric motor w/700 gpm pump	187
150 hp lp gas engine w/right angle drive	0 hrs
Sub-Station 11 – Old Bass River Road	
60 hp electric motor w/500 gpm pump	177

	# of days
Sub-Station 12 – Old Chatham Road	
75 hp electric motor w/700 gpm pump	174
Sub-Station 13 – Center Street	
Decommissioned December 1999	
Sub-Station 14 – Baker's Pond Road	
60 hp electric motor w/ 450 gpm pump	196
Sub-Station 15 – Baker's Pond Road	
75 hp electric motor w/700 gpm pump	178
70kW generator	18 hrs
Sub-Station 16 – Timber Lane	
40 hp electric motor w/ 450 gpm pump	165
Sub-Station 18 – Hokum Rock Road	
75 hp electric motor w/ 700 gpm pump	200
70kW generator	22 hrs
Sub-Station 19 – Setucket Road	
75 hp electric motor w/700 gpm pump	210
75kW generator	18 hrs
Sub-Station 20 – Setucket Road	
75 hp electric motor w/700 gpm pump	197
70kW generator	19 hrs
Sub-Station 21 – Route 134	
75 hp electric motor w/700 gpm pump	154
80 kW generator	18 hrs
Sub-Station 22– Route 134	
75 hp electric motor w/700 gpm pump	165
Sub-Station 23– Old Chatham Road	
75 hp electric motor w/700 gpm pump	147
85kW generator	21 hrs
Booster Station – Route 134	
2 – 345 hp caterpillar diesel engines w/3,500 gpm pump on each motor (manual)	0 hrs

VEHICLE & EQUIPMENT OPERATIONS 2015

Truck #		Miles
2	2008 Ford Expedition	5,653
4	2014 GMC 2500	17,777
6	2015 Chevrolet ¾-ton pickup	8,978
8	2013 GMC 1500	8,228
10	2011 Chevrolet ½-ton pickup	14,279
12	2005 Chevrolet 1-ton dump truck	4,733
14	2015 Chevrolet ½-ton pickup	9,033
16	2003 GMC cargo van	10,758
18	2007 Chevrolet ½-ton pickup	10,382
20	2002 Chevrolet dump truck	682
22	1999 GMC dump truck	872
24	2008 Chevrolet 2500 utility truck	8,508
26	2012 Chevrolet 1500 ½-ton pickup	6,182
28	2008 Ford F-350 utility truck	7,690
30	2002 Chevrolet cargo van	7,693
32	2010 Ford F350 utility truck	6,376
	TOTAL MILEAGE	***127,824***

	Equipment	Hours
1993	Gravely	54
1993	Sullivan Air Compressor	54
2000	Ingersol Rand Air Compressor	15
2000	Kobelco Excavator	20
2001	John Deere Backhoe Loader	122
2014	John Deere Backhoe Loader	317
2005	John Deere Backhoe Loader	172
2015	John Deere Mini-excavator	250
2005	Gravely	91
2004	Mower	39
2004	Roller	39
2000	100kw Generator Set #1	6
2000	100kw Generator Set #2	3

CUSTOMER TRANSACTIONS – FY 2015

Meter Replacements	709
Seasonal Meter Removal/Re-install	3,422
Final Readings	393
Backflow Prevention Device Tests	183
Demand Letters Processed	432
Demand Shut-Off Processed	160
Frozen Meters	71
Meter Tampering	1
Service Calls/Repairs	290
Fire Sprinkler Standby	101
Renewal and Relocation of Water Services	62
Payments Processed	30,724

NEW SERVICES
FY 2015

Dennis	7
East Dennis	6
Dennisport	2
West Dennis	4
South Dennis	3
TOTAL	***22***

WATER PUMPED IN 2015
In Gallons

January	35,814,200
February	44,721,300
March	51,955,700
April	46,090,200
May	128,908,600
June	154,398,800
July	201,136,400
August	209,792,800
September	154,589,100
October	73,515,700
November	36,960,000
December	32,116,700
Total	***1,169,999,500***

MAIN LINE GATES & HYDRANTS
as of December 31, 2015

Year	20”	16”	12”	10”	8”	6”	2”	Total	Hydrants
All	14	10	194	143	599	2500	166	3626	1569
2005				1		16	-3	14	8
2006					5	12	-1	16	7
2007						8		8	1
2008		10	13		15	24	1	63	14
2009					1	5		6	2
2010	***There were no items added in calendar 2010***								
2011					1	1		2	2
2012			7		1	3		11	2
2013			2			8	-1	9	4
2014					2			2	2
2015			3			10		13	2
Totals	14	20	219	144	624	2587	162	3770	1613

WATER MAINS
as of December 31, 2015

Year	24”	16”	12”	10”	8”	6”	4”	2”	Total
Prev	15,998	10,978	137,233	91,652	421,175	469,448	359	61,110	1,207,953
2005				242		3,780		-846	3,176
2006					1,013	1,321	14	-39	2,309
2007						843			843
2008		4,904	12,047		8,164	577		105	25,797
2009					1,132	740		-306	1,566
2010	***There were no items added in calendar 2010***								
2011					240	15			255
2012			5,399		40	463			5,902
2013			3,161		1,953	2,195		-450	6,859
2014		35			1,150				1,185
2015			1,492			-615			877
	15,998	15,917	159,332	91,894	434,867	478,767	373	59,574	1,256,722

237.835 Miles of Water Main
All Cast/Ductile Iron - Cement Lined Pipe

PRODUCTION DEMAND STATISTICS
Calendar Year 2015

Largest Day	August 2	8,780,200
Smallest Day	December 2	673,600
2nd Largest Day	July 19	8,599,400
2nd Smallest Day	December 1	686,100
Largest Week	August 2-8	53,748,400
Smallest Week	November 29—December 5	6,963,900
2nd Largest Week	July 26—August 1	51,036,100,
2nd Smallest Week	December 13 -19	6,964,500
Largest Month	August	209,792,800
Smallest Month	December	32,116,700
2nd Largest Month	July	201,136,400
2nd Smallest Month	January	35,814,200

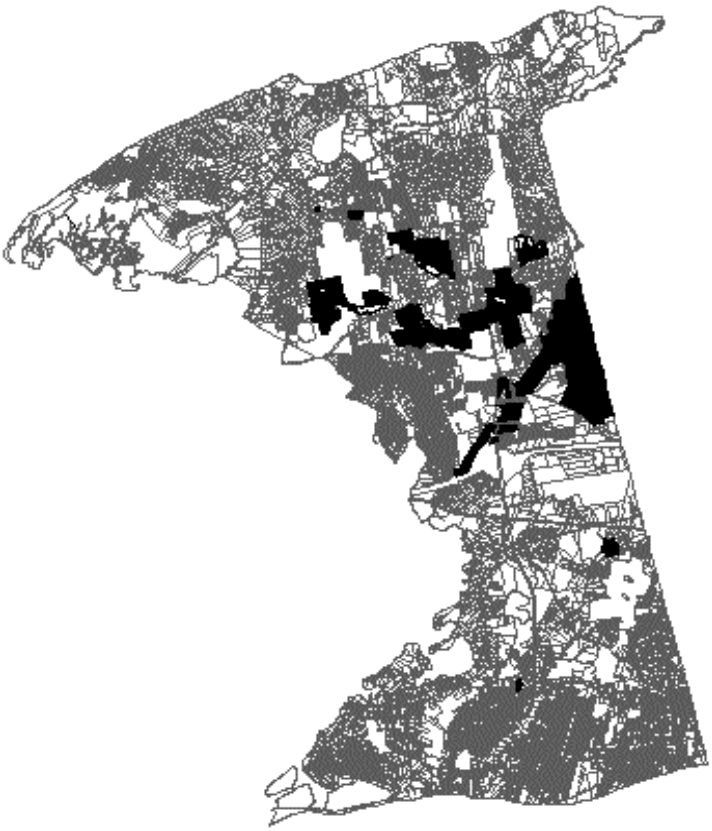
SYSTEM STATISTICS
Calendar Year 2015

Pumping Capacity of Main Station and 22 Sub Stations	11,600 Gallons Per Minute
Chemical Feed Pumping Stations	13
Storage Capacity of Three Standpipes and One Elevated Tank	10,550,000 Gallons
Maximum Permitted Withdrawal from all wells Per Year	1.189 Billion Gallons
Two Iron & Manganese Removal Treatment Plants	9,700,000 Gallons Per Day

LAND OWNED BY DISTRICT (acres)

Land Owned as of 12/31/14—998.41

Total Watershed Conservation Restrictions Held as of 12/31/2014—69.60



WATER RATES & CHARGES

DISTRICT PROPERTY TAX RATE

In Fiscal Year 1989, the District's tax rate was set at "zero." It continued at zero until FY2009, when by action under Article 9, the voters appropriated funds for the continued investigation of wastewater planning which re-established a tax rate. The rate when approved by the Department of Revenue was set at 4¢ per thousand dollars of property valuation. The tax rate has been set at zero since FY 2010.

ACCOUNT CHARGE

Formerly known as the *Minimum Charge*, which provided an *"allowance"* of 15,000 gallons for each six-month billing cycle, this charge now represents a basic semiannual fee regardless of the amount of water used, if any, during each six-month billing cycle.

7/1/91 - 6/30/92 - Minimum Charge $30 with an allowance of 15,000
7/1/92 - 6/30/93 - Account Charge $25 - no allowance
7/1/93 - 6/30/98 - Account Charge $20 - no allowance
7/1/98 - 6/30/08 - Account Charge $25 - no allowance
7/1/08 - 6/30/09 - Account Charge $36 - no allowance
7/1/09 - 6/30/15 - Account Charge $42 - no allowance

CONSUMPTION

07/01/09 - 06/30/2015—First 50,000 gallons - $2.50
Next 50,000 gallons - $3.00
101,000 gallons and up - $3.50

7/1/92 - 6/30/94 - No Allowance - $1.50
7/1/94 - 6/30/00 - First 50,000 gallons - $1.50
51,000 and over - $1.75
7/1/00 - 12/31/04 - First 50,000 gallons - $1.50
Next 50,000 gallons - $2.00
101,000 gallons and up - $2.50
1/1/05 - 06/30/09 - First 50,000 gallons - $2.00
Next 50,000 gallons - $2.50
101,000 gallons and up - $3.00

Rates for water billed during each six-month billing cycle are per one thousand gallons.

SAFE DRINKING WATER ACT ASSESSMENT

This is a pass through fee set by the Department of Environmental Protection. This revenue subsidizes DEP's oversight of public water suppliers and the enforcement of EPA compliance. The rate includes a five percent administrative fee.

7/1/95 - 6/30/03 - $0.0084 per thousand gallons
7/1/03 - 6/30/14 - $0.0090 per thousand gallons

LAND ACQUISITON FEE—$10 semiannual fee from Aug 2001 through February 2007

WATERSHED PROTECTION FEE—At the Annual District Meeting, held April 25, 2007, the voters, under Article 12, approved the purchase of 6.5 acres of land for wellhead and watershed protection and the purchase of water conservation restrictions on 59(+/-) acres of land in the Town of Brewster. The article approved the cost at $2,500,000. In order to pay for the bond issuance costs, debt service and other ancillary costs, the voters also approved a new fee. The fee was set at *$10 per customer every six months* until the total cost is recovered. The fee was first assessed in August 2007 and is expected to continue for approximately 13 years.

DENNIS WATER DISTRICT
BY - LAWS
(In effective as of 12/31/2008)

ARTICLE ONE OFFICERS

Section One: The officers of the District shall be specified and directed by Chapter 277 of the Acts of 1945. (Adopted April 23, 1946, Amended December 8, 1965)

ARTICLE TWO MEETINGS

Section One: Section One: For the year 2009, and each year thereafter, the annual meeting shall be held on the fourth Tuesday in April. Notwithstanding any general or special law to the contrary, for the year 2009, and each year thereafter, the annual election of the officers and any other matter that may appear on the official ballot shall be held on the fourth Wednesday in April. Commencing at an Annual Town Election to be held no sooner than 2010, or the next annual Dennis Town Election after enactment of special legislation authorizing Dennis Water District Elections to be held in conjunction with the Dennis Town Elections, the Dennis Water District Election shall be held in conjunction with the Dennis Town Election, with full responsibility for the conduct of such election to be vested in the officers of the Town, who shall place on the ballots to be used at said election the election of officers of the Dennis Water District and any question or questions as may be requested of them by the Board of Water Commissioners of the Dennis Water District. (Altered and Amended April 29, 2008) (Altered and Amended January 27, 2009)

Section Two: Meetings of the District shall be called by the clerk when requested in writing by a majority of the water commissioners or by ten or more legal voters of the District; and he shall give notice thereof by posting written notifications in two or more public places within the District, which notifications shall briefly state the purpose of the meeting. (Adopted March 18, 1953)

Section Three: No business shall be transacted at any District Meeting, except the election of officers, unless there is a quorum present consisting of at least 25 legal voters of the District. (Adopted March 18, 1953)

ARTICLE THREE FINANCES

Section One: Effective July 1, 1974 the Financial year shall commence on July 1, and continue through June 30 of the following year. (Altered and Amended January 24, 1974)

Section Two: No money, except interest and indebtedness authorized by the District shall be paid from the treasury without written approval or order of a majority of the water commissioners or by a vote of the District and according to its order. (Adopted April 23, 1946)

Section Three: There shall be a Finance Committee, consisting of five registered voters of the District appointed by the Moderator for three-year terms, the initial appointments to be for terms as follows: two members for three years, two members for two years and one for one year. The Finance Committee shall consider any and all District questions, for the purpose of making reports or recommendations to the District. Members of the Finance Committee shall serve without compensation and no member shall hold any other elective or appointive District position during this term of office. The Moderator shall fill any vacancy for an unexplored term. The Finance Committee shall annually choose a chairman, secretary, and such other officers as it deems necessary. (Adopted April 26, 1977)

ARTICLE FOUR AMENDMENTS

Section One: These bylaws may be altered, amended, repealed and added to at any meeting of the District provided notice of such proposal is set forth in the call of the meeting. (Adopted April 23, 1946)

(ARTICLE FIVE—WATER EXTENSIONS—(Adopted June 16, 1947, Amended March 17, 1965 and March 16, 1966, Rescinded April 25, 2007)

ARTICLE FIVE WATER USE RESTRICTION

Section One: Authority - This Bylaw is adopted by the Dennis Water District under its home rule powers, its police powers to protect public health and welfare and its power under M.G.L. C.40, §21 et seq. This bylaw implements the District's authority to regulate water use pursuant to C.41, §69B.

Section Two: Purpose - The purpose of this bylaw is to protect, preserve and maintain the public health, safety and welfare whenever there is in force a state of water supply conservation or a state of water supply emergency by providing for enforcement of any duly imposed restrictions, requirements, provisions or conditions imposed by the District or by the Department of Environmental Protection.

Section Three: Definitions

Enforcement Authority shall mean the Dennis Water District Board of Water Commissioners having responsibility for the operation and maintenance of the water supply. The Board of Water Commissioners may also designate any other local body having police powers as an enforcement authority.

Water Supply Emergency shall mean a state of water supply emergency declared by the Department of Environmental Protection under M.G.L. C. 21G, §15-17.

State of Water Supply Conservation shall mean a state of conservation declared by the District pursuant to section four of this bylaw.

Water Users or Water Consumers shall mean all public and private users of the District's public water system, irrespective of any person's responsibility for billing purposes for water used at any particular facility.

Person shall mean any individual, corporation, trust, partnership or association or other entity.

Public notice of a State of Water Conservation shall be given under section six of this bylaw before it may be enforced.

Section Four: Declaration of a State of Water Conservation
The District through its Board of Water Commissioners may declare a State of Water Conservation upon a determination by a majority vote of the Board that a shortage of water exists, and that conversation of water is necessary to insure adequate supply to all consumers under all conditions.

Section Five: Restricted Water Uses
A declaration of a State of Water Conservation issued by the Board of Water Commissioners may include one or more of the following restrictions, conditions, or requirements restraining the use of water for nonessential purposes as necessary to protect the water supply, which shall be included in the public notice required under section six.

A) Odd/Even Law Watering Lawn watering at facilities with odd numbered addresses is permitted only on odd numbered days. Lawn watering at facilities with even numbered addresses is permitted only on even numbered days.

B) Outdoor Watering Ban. Lawn watering, and all other forms of nonessential outdoor water use are prohibited.

C) Outdoor Watering Hours. Outdoor watering is permitted only during off-peak hours, to be specified in the declaration of a state of water conservation and public notice thereof.

D) Filling Swimming Pools. Filling of swimming pools is prohibited.

E) Automatic Lawn Sprinkler Use. The use of automatic lawn sprinkler systems is prohibited.

Section Six: Public Notification of a State of Water Supply Conservation.
Notification of any provision, restriction, requirement or condition imposed by the District as part of a State of Water Conservation shall be published in a newspaper of general circulation within the District, or by such other means reasonably calculated to reach and inform all users of water of the state of conservation. Any restriction imposed under section five shall not be effective until such notification is provided.

Section Seven:Termination of a State of Water Supply Conservation; Notice
A state of Water Supply Conservation may be terminated by a majority vote of the Board of Water Commissioners upon a determination that the water supply shortage no longer exists. Notification of the termination of a state of water conservation shall be given in the same manner as notice of the state of water conservation is given.

Section Eight: State of Water Emergency; Restricted Water Use.
Upon notification of the public that a declaration of a state of water emergency has been declared by the Department of Environmental Protection, no person shall violate any provision, restriction, requirement, condition or order approved or issued by the Department intended to bring about an end to the emergency.

Section Nine: Penalties
Any person violating this bylaw shall be liable to the District in the amount of $50. for the first violation and $100. for each subsequent violation which shall insure to the District for such uses as the Board of Water Commissioners may direct. Fines shall be recovered by indictment, or on complaint before the District Court, or by non-criminal disposition in accordance with Section 21D of Chapter 40 of the general laws. Each separate issuance of a citation pursuant to this section shall constitute a separate violation.

Section Ten: Severability
The invalidity of any portion or provisions of this bylaw shall invalidate any other portion or provision thereof.

Dennis Water District

Main-Line News

www.denniswater.org

Volume 22, No. 1

February 2015

Board of Water Commissioners
* * * * *
Paul F. Prue, *Chair*
Charles F. Crowell, *Vice Chair*
Peter L. McDowell

Appointed by Water Commissioners
* * * * *
David Larkowski, Superintendent
Sheryl A McMahon, Clerk & Treasurer
James Ritchie, Asst. Superintendent

Drought Advisory Status—*Normal*

At the January 2015 Board of Water Commissioners meeting, it was unanimously voted to re-set the status from *Advisory* to *Normal*. During the summer of 2014, customers were asked to voluntarily use an odd/even day outdoor watering schedule. The District's drought management response plan requires monitoring of ground water levels and precipitation. When levels did not quite recover to their normal spring time conditions, the Board took action by changing the drought status to *Advisory*. Currently, levels are ahead of the normal winter/spring recovery cycle. So long as average rainfall is observed throughout the spring, conditions should remain normal for the summer season.

Seasonal Removals Meter Tampering

All customers are reminded that water meters are the property of the District and are not to be removed for any reason by any person. The District Rules and Regulation 200.5 state:

> *"No one other than authorized District personnel are permitted to remove the water meter. No part of the water meter shall be tampered with no nuts loosened, etc. Meter Tampering is subject to a fine of triple the amount of damages sustained thereby or $1,000, whichever is greater or by imprisonment for not more than one year, or both – per MGL Ch. 165, Sec. 11".*

Property owners are advised to be mindful that they will be held responsible for the unauthorized removal or damage done by someone else such as a plumber, handyman or friend. Fines for disturbing or damaging a meter are assessed to the property owner. In many instances, owners claim that they were unaware that someone doing work had disturbed, disconnected or damaged the meter. In cases of winterizing homes you may disconnect the house side of the meter only. If you want the meter removed and the water service turned off, you must contact the District office and schedule a seasonal removal. The $60 seasonal meter fee includes both the removal and reinstallation. Removal is at the discretion of the customer but, it is much less than the $1,000 fine.

Spring Time Tradition Marks 20th Anniversary

HHW COLLECTION DAY
Saturday, June 6 from 9 am to 1 pm

This year's Household Hazardous Waste Collection Day marks the Districts twentieth year for the spring collection. While this drive through service is designed to give residents a quick drop off, it's popularity does lead to a long line and wait times.

What slows down the line the most is Latex and Acrylic paints and water based stains and wood products. PLEASE—do not bring Latex Paint and other water based products for collection

See HHWCD on back

WATER MANAGEMENT ACT PERMIT RENEWAL

All water suppliers like the District operate under a permit issued in accordance with the Water Management Act and under the close supervision and regulation of the US Environmental Protection Agency (EPA) and the MA Department of Environmental Protection. Cape water suppliers, including golf courses and agriculture activities, are currently undergoing the permit renewal process. The District currently operates under a permitted water withdrawal of 1.189 billion gallons a year with an actual average annual withdrawal of about 1 billion.

Why are we telling you about this? New draft permit withdrawal numbers are in and Dennis is expected to be reduced by 94,000,0000 gallons annually to 1.095 billion. Reductions are happening to all Cape suppliers not just Dennis. While the renewal process continues with discussions on permit conditions, water consumers in Dennis along with those across the Cape may see water use restrictions become more common in the future.

See WMA Permit on Back…

HHWCD Continued…

at the Tony Kent Arena. It can take an inordinate amount of time to sort out the latex products so again, a reminder to our customers that ***NO LATEX OR WATER BASED PRODUCTS*** will be accepted at the site.

"WHAT CAN I BRING?"—Pesticides, herbicides, fungicides, rodent poisons, "no pest" strips, flea collars, gasoline, brake and power steering fluids, radiator flush, white wall cleaner, bug and tar remover, furniture polish, metal polish, moth balls, drain cleaners, spot removers, solvents, cesspool cleaners, acids, oil based paints and stains, marine paints, auto paints, solvent based paint thinners and strippers, turpentine, mineral spirits, acetone, varnish, shellac, photo and pool chemicals, chemistry sets, thermostats, switches, thermometers containing mercury.

PLEASE DO NOT BRING—Used oil and oil filters, spent antifreeze, lead-acid and rechargeable batteries, empty propane gas cylinders, empty cans, television and computer monitors, latex paint. All of these items are accepted at the Transfer Station—check with the attendant at the gate for instructions.

STRICTLY FORBIDDEN—Medical or bio-hazardous materials, syringes, explosives, ammunition, fireworks or flares.

WHAT TO DO WITH LATEX, ACRYLIC PAINTS AND WATER BASED PRODUCTS—It is simple, if the product is still a liquid just pour it over cat litter or a soluble material and let it dry. Then throw it in with the regular household trash.

WPA Permit Continued…

Dennis' Drought Management Plan is a major tool in our efforts to be responsible with water consumption during dry periods. Customers who are well informed and willing to curb their non-essential use during drought advisory periods is a key element of our permit conditions. As the summer season approaches the District will continue to provide information and reminders of effective ways to curb our appetite for water.

DISTRICT 2015 DATES TO REMEMBER

Tuesday, April 28—Annual District Meeting
Tuesday, May 12—Town and District Elections

SOLAR FARM IS ON THE GRID

On September 30, 2014, the official ribbon cutting ceremony and dedication of the largest solar development in New England was held in South Dennis on the site of the solar panel field (adjacent to the Transfer Station). Ironically, the day was overcast with sporadic misty-rain when local, state and corporate officials gathered to acknowledge the cooperative effort which brought together this public-private project. The solar field consists of 23,000 photovoltaic panels and is estimated to produce six megawatts of electricity annually.

The power generated is allocated as follows: three megawatts to the Town, two megawatts to Dennis-Yarmouth Regional School District (DYRS) and one megawatt to the District. The Town will receive the net metering credits from NStar in cash payments and then distribute the appropriate shares to the District and DYRS. At the time the District entered into the agreement with the Town the estimated revenue for the District was more than $120,000. Since the start date for actually generating power into the *grid* had been tentative, the revenue anticipated was not included in the FY 2015 Budget. The Board will consider the amount to be included in its revenue estimates for the FY 2016 Budget.

MAKE METER READING A HABIT

Reading your water meter is like reading a car odometer. You read the numbers left to right. Just like a car odometer displaying the total miles driven the water meter displays the total gallons that have passed through since it was installed. Most meters have six dials with a fixed zero at the end. The reading in the picture is 296,220 gallons. The sweep hand shows single gallons. One complete sweep equals 10 gallons. On a water bill this reading would be "296".

Since the District reads meters just twice a year, we can't stress enough how important it is to read your water meter regularly (at least monthly). Understanding your water usage and finding and repairing leaks on a timely basis will contribute to the overall management of our resources and SAVE YOU MONEY! Don't be surprised by a high water bill. Pick a day of the month (like your birthday) and start keeping track. Customers with lawn irrigation systems are especially urged to monitor their readings during the summer.

Dennis Water District

Board of Water Commissioners
* * * * *
Paul F. Prue, *Chair*
Charles F. Crowell, *Vice Chair*
Peter L. McDowell

Main-Line News

www.denniswater.org

Volume 22, No. 2 August 2015

Appointed by Water Commissioners
* * * * *
David Larkowski, Superintendent
Sheryl A McMahon, Clerk & Treasurer
James Ritchie, Asst. Superintendent

WATER MANAGEMENT ACT PERMIT RENEWAL

Over the course of the last several months the District, along with all other Cape Cod water utilities, received our Water Demand Projections from the Massachusetts Department of Environmental Protection (DEP). Originally, the District anticipated a reduction of 94 million gallons per year from the current permitted annual withdrawal of 1.189 billion gallons. As it stands now the annual reduction will be 104 million gallons. This is about 8% lower than the District's current permit. Every community on the Cape is being impacted in the same manner.

The Superintendent has challenged the rationale for the reduction and has determined that there does not appear to be a defensible scientific reason. While there are certainly areas within Massachusetts that are sourcing water from stressed basins such as rivers and streams, the Cape is a water-rich region with more than enough capacity to sustain current permitted withdrawal limits. There may be site-specific situations which are impacting a water department's ability to supply water, such as pollution or an insufficient number of wells to meet demand but, it has nothing to do with the availability of drinking water on Cape Cod.

According to the Sustainable Water Management Initiative (SWMI) report, the Cape's safe yield is 260 million gallons per day (MGD). The total of all currently permitted water suppliers on the Cape is only 54 MGD. Of that, the actual average withdrawal is approximately 47 MGD. The recently completed wastewater study by the Cape Cod Commission reports that about 80% of what passes through water meters is discharged back into the aquifer through septic systems.

Simply calculated, DEP is proposing a new permit limit based on the average of a 5-year block of historical usage from 2010 – 2014. The reliance on an 'average' will logically dictate that the District will exceed its withdrawal limit at least one-half of the time. Based on a 25-year history, the District would have been in violation of its permit at least five times.

The proposed limit will inevitably result in the District being in violation of its permit. DEP officials have been seemingly unwilling to move from this position despite a lack of evidence that the Cape Cod Basin is a stressed resource.

The Cape's economy is tied to tourism and planning officials seek ways to promote clean businesses for economic growth. The proposed limitation on water withdrawal, when there is no scientific proof that there is a need defies logic and may have negative economic consequences in the future.

Continued on back: PERMIT

WHO OWNS THE WATER SERVICE?

Most residential and commercial property owners are unaware that all water services are installed and repaired by the District and the costs of those installations and repairs are the financial responsibility of the property owner.

The following excerpts are sited from the District's Rules & Regulations which can be found on the website:

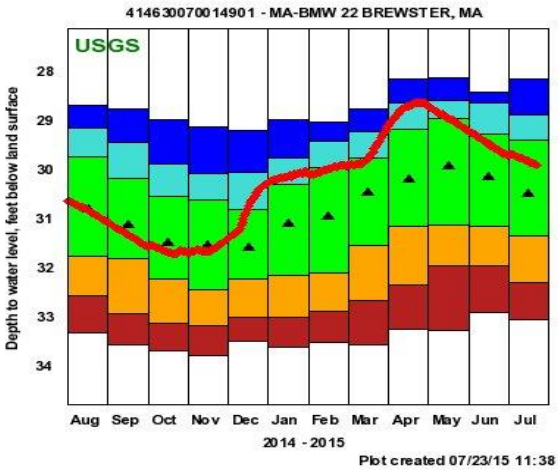
Section 1: Water Services—*The property owner is financially responsible for all repairs made to the water service line from the connection on the street water main up to the water meter.*

***Section 2:* Water Meters**—*No one other than authorized District personnel is permitted to remove the water meter, no part of the meter shall be tampered with—no nuts loosened, etc. Meter tampering is subject to fines, costs and penalties in accordance with Mass. Gen. Law Chap. 165, Sec. 11, as amended.*

***Section 4:* Water Consumption-Water Bills**—*Property owners are responsible for the payment of all water bills. According to the provisions of Chapter 40, Section 42A (M.G.L.) all unpaid water bills are a lien on real estate.*

State of Water Conservation

Based on current water conditions, the Board of Water Commissioners report that water levels are ***"Normal"*** at this time. Based on the District's Drought Management Plan both ground water and precipitation is at or above normal.



A U.S. Geological Survey link to a ground water monitoring well in Brewster provides data used by the District as one tool in determining the current status of any drought conditions and predict adverse or positive trends. Any one can visit the site using the following link: http://groundwaterwatch.usgs.gov/AWLSites.asp?S=414630070014901.

PERMIT Continued...

The Barnstable County Water Utilities Association, as well as individual permit holders, have been meeting with legislators to bring DEP and other state officials together for open discussion on this issue. Through communications such as this newsletter, press releases and public forums citizens and business owners on Cape Cod will understand the potential impact this reduction will have on our communities. It may result in increased water use restrictions and water rates.

Cape Cod public water suppliers have been good stewards of our resource and the environment. Many communities continue to purchase land for water shed protection, have established drought management plans, promote useful conservation tips, and conduct free Household Hazardous Waste Collection Days while continuing to meet consumer demand and maintain their water production and distribution infrastructure at the lowest possible cost to ratepayers and taxpayers.

Please take the time to understand what is at stake with the proposed withdrawal reduction. Updates on the permitting process appears frequently on the Board's monthly meeting agenda. The Board's meeting schedule is posted on the District's website as well as the link to replay of previous meetings. Please visit: www.denniswater.org. For questions and comments please contact Superintendent David Larkowski at dlarkowski@denniswater.org.

Town of Dennis @ Tony Kent Arena
HHW COLLECTION DAY
Saturday, September 12
9 AM to 1 PM

PAINTS, POLISHES & STAINS: Alkyd-Based Paint & Stain • Marine Paints & Sealers • Metal & Furniture Polish • Oil-Based Paint & Stain • Paint Thinner & Remover • Solvent-Based Wood Finish • Wood Preservatives • Auto Paint (no latex)

YARD CHEMICALS: Driveway Sealer with Solvent • Fertilizers with Weed Killer • Rodent Poison • Weed Killer • Insecticides • Pesticides

CLEANERS & CHEMICALS: Pool Cleaners & Chemicals Solvents • Photo & Hobby Chemicals • Oven Cleaner • Drain Cleaner • Spot Remover • Acids • Degreasers • Disinfectants

AUTO FLUIDS: Car Cleaner with Solvent • Brake & Power Steering Fluid • Bug & Tar Remover • Camp Fuel • Radiator Flush • Car Polish • Gasoline

PLEASE: Do not bring Latex Paint and other water based products for collection.

FORBIDDEN: Medical or bio-hazardous materials, syringes, explosives, ammunition, fireworks or flares.

For a detailed list of items or any questions visit ***www.capecodextension.org*** or call: 508-375-6699.

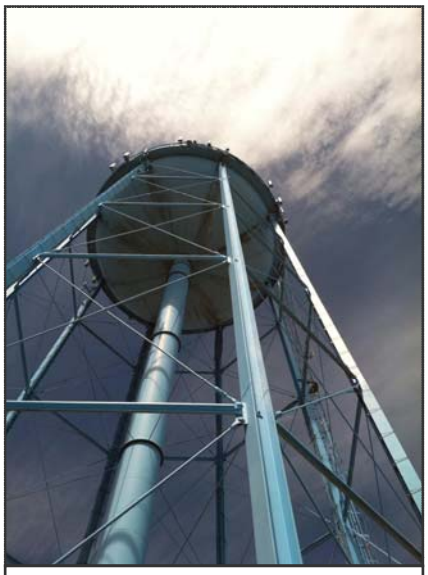
PROJECT UPDATES

The voters of the District have been funding appropriation requests over several years in support of three major multi-year projects that have been important initiatives for improvements and maintenance of the water system infrastructure.

TRANSMISSION MAIN: The Board of Water Commissioners took a phased-in approach to implement a significant improvement to the distribution system by planning for the installation of a water main from the vicinity of Eagle Pond Rehabilitation to Depot Street. This project involved obtaining several easements across public and private properties, gaining funding approval of $735,000 and installing approximately two miles of 12" ductile iron pipe. The last easement for installing the final 1,400' from Great Western Road to Center Street was recently signed by the owner and installation and tie-in is anticipated for this fall. This project has been undertaken entirely by District personnel which has saved the ratepayers hundreds of thousands of dollars in costs.

ADDITIONAL IRON & MANGANESE REMOVAL: For three years the District has funded a project with the goal of bringing the water produced by two wells, #5 and #20, to a treatment plant for the removal of iron and manganese. Currently, nearly two-thirds of the iron and manganese that comes from District supply wells is removed. The installation of mains bringing raw water to the treatment plants was recently completed with the exception of minor finish work. An additional 1.2 million gallons per day can now enter the distribution system with 99% of the iron and manganese being removed.

WATER TANK MAINTENANCE: An extensive maintenance project is planned for Spring 2016 on the elevated tank in West Dennis. The last major maintenance project was in 2001 when the interior and exterior of the tank were sand blasted and repainted. Inspection of the tank showed that while the majority of surface areas are still providing acceptable levels of protection, there are various elements of the exterior exhibiting degradation and corrosion activity. It was recommended that repairs be made as soon as possible. The scope of work will require a total containment system due to the close proximity of homes and businesses to the tank. Since the cost of the containment is necessary for the repairs, it was further decided to undertake a total blasting and recoating of the exterior. The completion date for the tank to be back in service is June 1st.



Looking skyward to underbelly of West Dennis Elevated Tank.

Dennis Water District

Town of Dennis

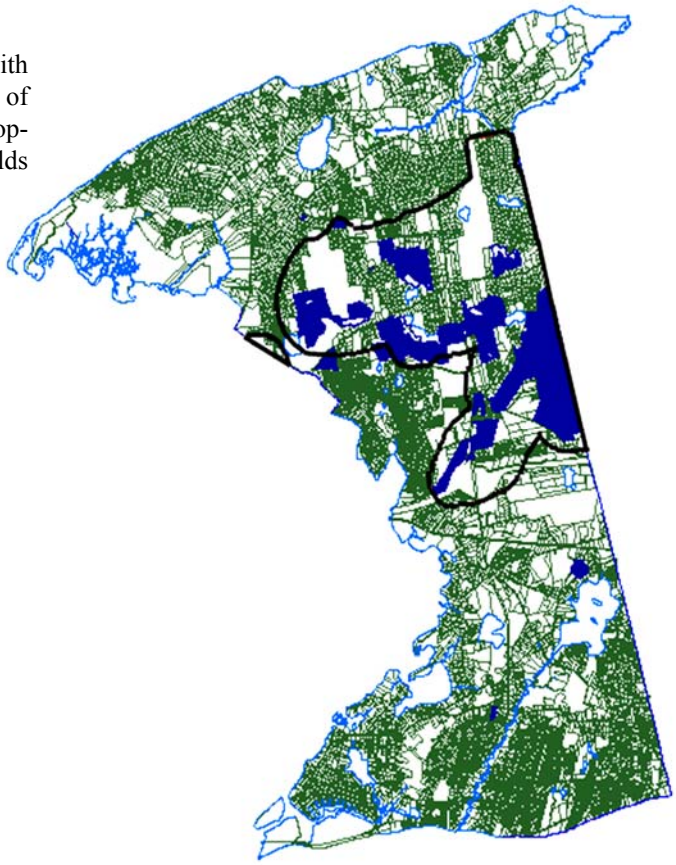
2015 Annual Water Quality Report

MA Public Water Supplier ID # 4075000

Dear Customer: We are pleased to provide you with our latest water quality summary covering the past year. The Safe Drinking Water Act (SDWA) requires that utilities issue an annual "Consumer Confidence Report" to customers in addition to other notices that may be required by law. This report details our sources of water, what it contains, and the problems and risks our testing and treatments are designed to prevent. The Dennis Water District is committed to providing you with the safest and most reliable water supply possible. Informed consumers are our best allies in maintaining safe drinking water.

Our water supply meets all state and federal water quality standards. We encourage public interest and participation in our community's decisions affecting drinking water. The Board of Water Commissioners meets regularly on the fourth Thursday of each month at 6:00 p.m. in the Martin Training Room at the Dennis Police Department, 96 Bob Crowell Rd., South Dennis. Meetings are subject to change, so please call ahead to confirm the date and time (508-398-3351). The public is welcome to attend. The meetings are generally televised live and replayed on local Channel 18. You are also invited to express your comments or concerns by mailing a letter or sending an email. Please visit our website at www.denniswater.org.

Water Sources In 2015, we supplied the properties in Dennis with 1,169,297,800 gallons of groundwater pumped from 22 wells all located north of the Route 6. Our wells are situated on more than 1067 acres of watershed property owned or protected by the District. The following is a list of well fields including the wells that operate in those fields.



Wells 1, 2, 3, 12, 23	Old Chatham Road	2,100 GPM
Wells 4, 6, 11, 22	Old Bass River Road	1,600 GPM
Well 5	Route 134	500 GPM
Wells 7, 8, 10	Airline Road	1,300 GPM
Well 9	Grassy Pond Drive	600 GPM
Wells 14, 15	Bakers Pond Road	1,150 GPM
Well 16	Timber Lane	450 GPM
Well 18	Hokum Rock Road	700 GPM
Wells 19, 20	Setucket Road	1,400 GPM
Main Station	80 Old Bass River Road	700 GPM
Well 21	Route 134	700 GPM

Emergency backup supplies would come from surrounding towns if mutual aid was needed. We have three interconnections with the Town of Yarmouth, three with the Town of Harwich and one with the Town of Brewster.

Dennis Source Water Assessment This assessment was completed by DEP to delineate the boundaries of those areas providing source water to our public water supply wells and identify, to the extent practicable, the origins of any future contaminants in the delineated area. No areas of contamination were found. The conclusions of the report found that the District has done a good job protecting its sources by acquiring or permanently restricting 1067 acres of watershed, working with the Board of Health to update our Wellhead Protection District and sponsoring yearly Household Hazardous Waste Collection Days. The report recommends that the District continue to educate consumers, through its newsletters, about source protection and to work with local businesses to ensure proper storage and handling of hazardous materials. The zones of contributions to our wells are outlined on the map above. A larger more detailed map is available at the District office and the Town of Dennis Board of Health office. Additional information about the Source Water Assessment can be obtained from the Massachusetts Department of Environmental Protection at *http://www.state.ma.us/dep/brp/dws.*

Memberships The District is a member of the following organizations: American Water Works Association, Massachusetts Water Works Association, New England Water Works Association, Plymouth County Water Works Association and Barnstable County Water Utilities Association.

Our Goal ***The District has provided water and water related services to consumers within the Town of Dennis for nearly seventy years. We are committed to supplying our current and future customers with a safe and adequate water supply for fire protection and domestic use at a reasonable cost. We will take all practical measures to protect the water system's assets.***

How To Read This Table The table on the adjacent page shows the results of our water quality analyses. Every regulated contaminant that we detected in the water, even the most minute traces, is listed here. The table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public health (MCLG), the highest level actually detected, the highest to the lowest ranges detected from all our wells, the usual sources of such contamination, footnotes explaining our findings, and a key to units of measurement. Definitions of MCL and MCLG are important.

(MCL) Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

(MCLG) Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

(MRDL) Maximum Residual Disinfectant Level: The highest level of disinfectant (chlorine) allowed in drinking water.

(MRDLG) Maximum Residual Disinfectant Level Goal: The level of a drinking water disinfectant below which there is no known expected risk to health.

(SMCL) Secondary Maximum Contaminant Level: These levels of a contaminant are developed to protect against the aesthetic qualities of drinking water and are not health based.

(ORSG) Mass. Office of Research and Standards Guideline: This is the concentration of a chemical in drinking water, at or below,

Water-Quality Table Notes Lead and copper are elements that occur naturally in the environment. When these two elements are found in our drinking water, it is most often the result of water interacting with materials found in plumbing, not from the water source. Since 1993, the water has been treated with potassium hydroxide to raise the pH from 5.5 to 7.0. The reason for this is to minimize the corrosion of plumbing and the consumer's exposure to lead and copper. Due to the effectiveness of this treatment, the District has been placed on a reduced monitoring program. Since treatment began, we continue to meet the requirements of the Safe Drinking Water Act.

[1] Chloroform occurs naturally here on Cape Cod. Future studies by DEP are planned to determine the reasons for this.
[2] Sodium can occur naturally and can also be attributed to road runoff.
[3] The aesthetic limits for iron and manganese are .3 ppm and .05 ppm respectively.

In 2015, the District completed a project that brought two more wells with elevated levels of iron and manganese into the two treatment plants, increasing their capacity to 5 MGD each. Iron and manganese in the remainder of the system are below detection levels. Levels above the recommended limits have been known to cause discoloration, taste and odor problems. These two elements have been present in our water system as long as the District has been pumping water. We continue to monitor the iron and manganese in our wells. The District has two iron and manganese removal plants to improve the aesthetics and water quality concerns associated with these minerals in the distribution system. We are proud to say they are working well and conditions in the system continue to improve.

Lead & Copper The most recent samples were taken during 2014. The District tested for Lead & Copper by taking samples from 30 homes. Lead was detected in 1 sample above the action level however, the total percent was under the limit established by EPA guidelines. A complete list of all results from this testing by the District in 2014 is available upon request or by visiting the District office during regular business hours: Monday through Friday 8 a.m. to 4 p.m. **The following is an education statement required under EPA regulations**:

"If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Dennis Water District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at: ***http://www.epa.gov/safewater/lead.***

Total Coliform The Total Coliform Rule requires systems to test for bacteria on a regular monthly schedule based on the population served. Coliforms are bacteria that are naturally present in the environment and are not harmful themselves; however, their presence can be an indicator that other potentially harmful bacteria may also be present.

Emergency Response Plan

The District maintains an Emergency Response Plan (ERP) which meets Massachusetts Departments of Environmental regulations 310 CMR 22.04(13) and Massachusetts Guidelines and Policies for Public Water Suppliers. It serves as a guide for the District in the case of an emergency.

As part of the ERP, District employees receive training to strengthen the District's ability to quickly identify and respond to emergencies. The training sessions earn education credits for our employees that hold state drinking water operator licenses.

The District partners with the Town of Dennis to provide an emergency calling service also known as *"Reverse 9-1-1."* The service enables the District to notify residents and businesses of water emergencies such as a "boil water" order or a major water main break. Information about *CodeRED* can be found on the District's website or by calling the District office at 508-398-3351.

The goal of the ERP is to protect the public health of our customers by being prepared to respond immediately to a variety of events that may result in contamination of the water supply or disruption of water service.

Contaminant	Date Tested	Unit	MCL	MCLG	Highest Detected Level	Range Lowest to Highest	Major Sources	Violation
Inorganic Contaminants								
Nitrate	March	ppm	10	10	1.9	ND - 1.9	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	NO
Perchlorate	August	ppb	2	2	0.39	ND - .39	Rocket propellant, Fireworks, Monitions, Flares, Blast ingredents	NO
Barium	March	ppm	2	2	0.041	ND - .041	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	NO
Fluoride	March	ppm	4	4	0.55	ND - .55	Erosion of natural deposits; discharge from fertilizer and aluminum factories	NO
Sodium[2]	March	ppm	NA	NA	130	6 - 130	Run off from use of salt on roads	NO
Radioactive Contaminants								
Gross Alpha Activity	10/28/13	pCi/L	15	0	0.190	ND - .19	Erosion of natural deposits	NO
Radium 228	10/28/13	pCi/L	5	0	1.8	ND - 1.8	Erosion of natural deposits	NO
Volatile Organic Contaminants								
HAA5 Haloacetic Acids	August	ppb	60	NA	1.8	.64 - 1.8	By-product of drinking water chlorination	NO
THHM Trihalomethanes	August	ppb	80	NA	9.6	1.8 - 9.6	By-product of drinking water chlorination	NO
Unregulated Contaminants								
Contaminant	**Date Tested**	**Unit**	**SMCL**	**ORSG**	**Average Detected Level**	**Range Lowest to Highest**	**Sources**	**Violation**
Chloroform[1]	July	ppb	NA	NA	25	ND - 25	By-product of drinking water chlorination	NO
Bromochloromethane	July	ppb	NA	NA	0.54	ND - .54	By-product of drinking water chlorination	NO
Chlorodibromomethane	July	ppb	NA	NA	0.6	ND -.6	By-product of drinking water chlorination	NO
MTBE	March	ppb	20 - 40	70	0.42	ND - .42	Fuel Additive, leaks & spills from gasoline storage tanks	NO
Contaminant	**Date Tested**	**Unit**	**MRDL**	**MRDLG**	**Highest Detected Level**	**Range Lowest to Highest**	**Sources**	**Violation**
Chlorine	2015	ppm	4	NA	0.26	ND - .26	Product of drinking water chlorination	NO
Secondary Contaminants								
Contaminant	**Date Tested**	**Unit**	**SMCL**	**Health Advisory**	**Highest Detected Level**	**Range Lowest to Highest**	**Major Sources**	**Violation**
Manganese[3]	March	ppm	0.05	0.3	0.026	ND - .026	Naturally present in the environment	NO
Iron[3]	March	ppm	0.3	NA	ND	ND	Naturally present in the environment	NO
Lead & Copper								
Contaminant	**Date Tested**	**90th Percentile**	**# of Sites Exceeded Action Level**	**# of Sites Sampled**	**MCL (Action Level)**	**MCLG**	**Major Sources**	**Violation**
Lead	Aug & Sept 2014	5	1	30	15 ppb	0 ppb	Corrosion of household plumbing Erosion of natural deposits	NO
Copper	Aug & Sept 2014	0.36	0	30	1.3 ppm	1.3 ppm	Corrosion of household plumbing Erosion of natural deposits and leaching of wood preservatives	NO
Microbiological Contaminants								
Contaminant	**Date**	**Highest # positive samples taken in a month**		**Highest % Positive in a Month**	**MCL**	**MCLG**	**Major Sources**	**Violation**
Total Coliform Bacteria	June /August	2 positive detections in 2015		1.3%	5%	0	Naturally present in the environment	NO

Key to Table

AL = Action Level
MCL = Maximum Contaminant Level
MCLG = Maximum Contaminant Level Goal
MFL = Million Fibers per Liter
MRDL = Maximum Residual Disinfectant Level

pCi/l = picocuries per liter (a measure of radioactivity)
ppm = parts per million or milligrams per liter (mg/l)
ppb = parts per billion, or micrograms per liter (µg/l)
ppt = parts per trillion, or nanograms per liter
ND = not detected

Water Treatment Techniques

Corrosion Control through pH Adjustment Many drinking water sources in New England are naturally corrosive (i.e. they have a pH of less than 7.0). The water they supply has a tendency to corrode and dissolve the metal piping it flows through. This not only damages pipes but can also add harmful metals, such as lead and copper, to the water. For this reason it is beneficial to add chemicals that make the water neutral or slightly alkaline. This is done by adding any one, or a combination of several, approved chemicals. The Dennis Water District adds potassium hydroxide to its water. This adjusts the water to a non-corrosive pH. Testing throughout the water system has shown that this treatment has been effective at reducing lead and copper concentrations.

Iron & Manganese Removal Iron and Manganese are often present in groundwater at levels that can discolor the water or cause it to take on unpleasant odors or tastes. Although the water may still be safe to drink, treatment is often desirable. Our treatment consists of adding sodium hypochlorite (chlorine) to the water which makes the iron and manganese precipitate out of solution and finally removed by running the water through one of our two filtration plants. Finish water results show nearly no detections of iron or manganese.

Disinfection The District uses sodium hypochlorite, also known as chlorine, in the distribution system. Initially it was only routinely used during our flushing program in the spring and fall of each year. Since 2007, the District has year-round chlorination of the distribution system. Chlorine is added at a rate of .5 ppm as a preventative measure to eliminate microorganisms.

All chemicals used by the District are approved for water treatment by one of the following organizations; National Sanitation Foundation International or United Laboratories, both accredited by the American National Standards Institute. Chemicals also meet performance standards established by the American Water Works Association.

Mandatory EPA Health Statement To ensure that tap water is safe to drink, the Massachusetts Department of Environmental Protection and the Environmental Protection Agency (EPA) prescribe limits on the amount of certain contaminants in water provided by public water systems. The Federal Food and Drug Administration and the Massachusetts Department of Public Health Regulations establish limits for contaminants in bottled water.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791) or by visiting their general website at http://www.epa.gov

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material, and can absorb substances resulting from the presence of animals or human activity. Contaminants that may be present in source water include:

(A) Microbial contaminants such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

(B) Inorganic contaminants, such as salts and metals, can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

(C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses.

(D) Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, can also come from gas stations, urban storm water runoff and septic systems.

(E) Radioactive contaminants can be naturally occurring or the result of oil and gas production and mining activities.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, persons with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

Please share this information with other people who you know drink water provided by Dennis Water District, especially those who may not have received this notice directly (for example, people living in apartments, nursing homes, or who visit our schools and businesses). You can do

What does this all mean? ***Our water supply is safe!*** As you can see in our table, the District experienced no violations during 2015. The District takes more than 1,000 test samples for various contaminants each year as required by EPA and DEP. Some detections are made at low levels yet all were within required limits. It is not possible to

How Will You Be Notified In An Emergency In the event of a non-acute violation, the District must submit notices within 14 days for publication in local newspapers explaining the violation. The notices will contain important information for consumers and what actions are being taken by the District to achieve compliance.

In the event of an acute violation or an immediate emergency, the District must issue a public notice for release through *CodeRED* and electronic media (radio, television, etc.) within 24 hours. The notice must explain the situation, including actions or precautions consumers may need to take. The notice will also describe the actions being taken by the District to resolve the problem. While regulations require a 24-hour public notice, our goal is to release the information as soon as possible.

This report was prepared by David Larkowski, Superintendent of the Dennis Water District. For more information call 508-398-3351.