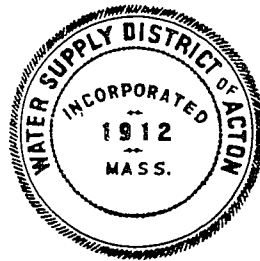


ANNUAL REPORT
OF THE
WATER SUPPLY DISTRICT

OF
ACTON, MASSACHUSETTS



For the Year Ending December Thirty-first

1987

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WATER DISTRICT ORGANIZATION - 1987

ELECTED OFFICIALS

COMMISSIONERS

Alvin R. Piper, Sr. *Chairman*
William P. Walsh
Stephen C. Stuntz

CLERK

Anita E. Page

MODERATOR

John W. Putnam

APPOINTED OFFICIALS

FINANCE COMMITTEE

Joyce E. Foley, *Chairman*
William L. Kingman
Theodore Jarvis

ATTORNEY

Charles E. Orcutt, Jr.

ACCOUNTANT

Raymond L. Page

COMMISSIONER'S SECRETARY

Jane Cutler

GROUNDWATER PROTECTION COMMITTEE

Joseph Markind

ACTON WATER DISTRICT STAFF - 1987

DISTRICT MANAGER	John E. MacLeod
TREASURER / COLLECTOR	Stephen G. Peterson
ENVIRONMENTAL ENGINEER	Joseph Markind
SECRETARY	Kymberlee A. Jones
SECRETARY (part-time)	Linda Larson
FOREMAN	Carleton Troupe
ASSISTANT FOREMAN	Robert Koch
OPERATORS	Robert Delaney Gary Odoardi Randall Troupe Stephen Peterson
CHEMIST (part-time)	Dr. John Swallow

ORGANIZATION - 1987

Water Commissioners

Alvin R. Piper, Sr.	Term expires 1988
William P. Walsh	Term expires 1989
Stephen C. Stuntz	Term expires 1990

Moderator

John Putnam	Term expires 1988
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Clerk

Anita E. Page	Term expires 1988
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Finance Committee

Joyce E. Foley	Term expires 1988
William L. Kingman	Term expires 1989
Theodore Jarvis	Term expires 1990

*Commissioners meet on second and fourth Monday of the month
Whitcomb Station, 693 Massachusetts Avenue, Acton
7:30 P.M.*

Appointment by the Water Commissioners

District Manager

John E. MacLeod	Term expires 1991
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Treasurer and Collector

Stephen G. Peterson	Term expires 1988
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Accountant

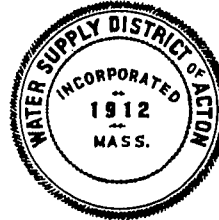
Raymond L. Page	Term expires 1988
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Attorney

Charles E. Orcutt, Jr.	Term expires 1988
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COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.



To the Clerk of the Water Supply District of Acton, GREETINGS:

You are directed to notify the inhabitants of the Town of Acton, qualified to vote in elections and town affairs, to assemble at their precinct:

Precincts 1 & 2 - Conant School - Taylor Road
Precincts 3,4 & 5 - Blanchard Auditorium, off
Massachusetts Avenue

on MONDAY, APRIL 4, 1988

between 7 o'clock A.M. and 8 o'clock P.M.

Then and there to bring their votes on one ballot for the following officers:

Moderator for one year, one Commissioner for three years, and Clerk for one year.

You are further requested to notify the legal voters of said Town of Acton, as aforesaid, to assemble at the

Acton-Boxborough Junior High School Auditorium
Charter Road at Massachusetts Avenue, Acton
on WEDNESDAY, MARCH 16, 1988

at 7:30 o'clock P.M.

Then and there to act on the following articles:

ARTICLE 1. To fix the salaries of the elected officers.

ARTICLE 2. To act on the reports of the Commissioners, the Treasurer and other officers and committees of the District.

ARTICLE 3. To see if the District will vote to authorize the Treasurer, with the approval of the Commissioners, to borrow in anticipation of the revenue for the fiscal year beginning July 1, 1988, in accordance with the provisions of General Laws, Chapter 44, Section 4, and to renew any note or notes as may be given for a period of less than one year, in accordance with the provisions of General Laws, Chapter 44, Section 17, or take any action relative thereto.

ARTICLE 4. To see what sums of money the District will vote to raise and appropriate to defray the usual expenses of the District.

ARTICLE 5. To see if the District will vote to transfer from Surplus Revenue, or to borrow under Chapter 44 of the General Laws, or to raise and appropriate a certain sum of money for the purchase of a new truck, one ton, dual wheels, utility body with crane and authorize the Commissioners to trade or sell the 1983 Dodge truck, or to take any other action relative thereto.

ARTICLE 6. To see if the District will vote to transfer from Surplus Revenue, or to borrow under Chapter 44 of the General Laws, or to raise and appropriate a certain sum of money for the purchase of a new truck and to authorize the Commissioners to trade or sell the 1981 Dodge truck, or to take any other action relative thereto.

ARTICLE 7. To see if the District will vote to transfer from Surplus Revenue, or to borrow under Chapter 44 of the General Laws, or to raise and appropriate a certain sum of money for the purchase of a new truck and to authorize the Commissioners to trade or sell the 1980 Dodge truck, or take any other action relative thereto.

ARTICLE 8. To see if the District will vote to transfer from the Receipt Reserve for Appropriation Account (W.R. Grace 1987 settlement) the sum of \$60,000.00 for the maintenance and operation, carbon replacement and power costs at the various treatment plants operated by the District, or to take any other action relative thereto.

ARTICLE 9. To see if the District will vote to transfer from Surplus Revenue a certain sum of money to update power lines and equipment for the Whitcomb Well Building, or to take any other action relative thereto.

ARTICLE 10. To see if the District will vote to transfer from Surplus Revenue a certain sum of money to install a new energy efficient boiler for the Whitcomb Office Building and install a new roof on the Whitcomb Pumping Station located off of Massachusetts Avenue in West Acton or to take any other action relative thereto.

ARTICLE 11. To see if the District will vote to transfer from Surplus Revenue a certain sum of money to install a pre-cast utility building and related equipment and to be located at the Lawsbrook Well in South Acton off Lawsbrook Road, or to take any action relative thereto.

ARTICLE 12. To see if the District will vote to authorize the Commissioners to transfer from Surplus Revenue or to raise and appropriate, or transfer from any available source or to borrow under Chapter 44 of the General Laws, a certain sum of money to renovate existing facility at Whitcomb Station and to purchase laboratory equipment for analytical testing of drinking water, to effectively implement the extended monitoring requirements mandated under the "Safe Drinking Water Act" and the "Corrosion Control Mitigation Program", or to take any other action relative thereto.

ARTICLE 13. a. To see if the District will vote to install a 12 inch water main extension on Main Street near North Acton from the existing water main located on Main Street near the Marshall well, a distance of about 1200 feet more or less, together with hydrants and necessary fittings, and to raise and appropriate, or transfer from any available source, or to borrow under Chapter 44 of the General Laws, as amended, a certain sum of money for said purpose, and to apply for and accept any federal or state funds towards the cost of this extension and upgrading of the water system, or to take any other action relative thereto.

13. b. To see if the District will vote to instruct the Commissioners prior to commencement of any work and awarding of the bid that a sum sufficient to fund the extension approved as Article 13 (a) shall be deposited with the Treasurer by Payless Cashways, Inc., Lumber and Building Materials: Two Persing Square, Kansas City, Mo.; said deposit to be used to purchase materials, and to engage a contractor to install a pipe and fittings, and to pay for the cost of engineering, police and inspections, and all other expenses incurred to complete the 12 inch water main extension on Main Street, or to take any other action relative thereto.

ARTICLE 14. To see if the District will vote to authorize the Commissioners to enter into a written lease not to exceed three (3) years with Bay State Explosives Company, Inc., a Massachusetts Corporation having a usual place of business in Acton, Massachusetts, for the purpose of continued use of three magazines for the storage of explosives on land owned by the District located off Powder Mill Road and New High Street in said Acton and subject at an annual rental of \$6,000.00, or any greater or lesser sum, or to take any other action relative thereto.

ARTICLE 15. To see if the District will vote to install an eight (8) inch water main extension on North Street, North Acton from an existing main to Carlisle Road, a distance of about 800 feet more or less, together with hydrants and necessary fittings, and to raise and appropriate, or transfer from any available source, or to borrow under Chapter 44 of the General Laws, as amended, a certain sum of money for said purpose, and apply for and accept any Federal or State funds towards the cost of this extension and upgrading of the water system, or to take any other action relative thereto.

ARTICLE 16. a. To see if the District will vote to install a ten (10) inch water main extension on Pope Road, North Acton from the existing main located on Pope Road, North Acton near Bayberry Road a distance of about 3000 feet more or less, together with hydrants and necessary fittings, and to raise and appropriate, or transfer from any available source, or to borrow under Chapter 44 of the General Laws, as amended, a certain sum of money for said purpose, and apply for and accept any Federal or State funds towards the cost of this extension and upgrading of the water system, or to take any other action relative thereto.

16. b. To see if the District will vote to instruct the Commissioners prior to commencement of any work and awarding of the bid that a sum sufficient to fund the extension approved as Article 16 (a) shall be deposited with the Treasurer by Stoneymeade Development Corporation, 12 Wampanoag Drive, Acton, Mass.; said deposit to be used to purchase materials, and to engage a contractor to install a pipe and fittings, and to pay for the cost of engineering, police and inspections, and all other expenses incurred to complete the ten (10) inch water main extension on Pope Road, or to take any other action relative thereto.

ARTICLE 17. a. To see if the District will vote to install a twelve (12) inch water main extension on Quarry Road, North Acton, from the existing main located on Main Street a distance of about 1700 feet more or less, together with hydrants and necessary fittings, and to raise and appropriate or transfer from any available source, or to borrow under Chapter 44 of the General Laws, as amended, a certain sum of money for said purpose, and apply for and accept any Federal or State Funds towards the cost of this extension and upgrading of the water system, or to take any other action relative thereto.

17. b. To see if the District will vote to instruct the Commissioners prior to commencement of any work and awarding of the bid that a sum sufficient to fund the extension approved as Article 17 (a) shall be deposited with the Treasurer by D. Bruce Wheeler, Trustee of Castle Ridge Associates; said deposit to be used to purchase materials, and to engage a contractor to install a pipe and fittings, and to pay for the cost of engineering, police and inspections, and all other expenses incurred to complete the twelve (12) inch water main extension on Quarry Road, or to take any other action relative thereto.

ARTICLE 18. To see if the District will amend the ByLaws by adding a new section 13 which reads as follows:

18. a. No person shall maintain upon premises which they own or occupy, a physical cross connection between the distribution system of a public water supply, the water of which is being used for drinking, domestic, or culinary purposes, and the distribution system of any unapproved water supply, unless the installation has been reviewed and approved by the Water District and permits have been issued in accordance with the Drinking Water Regulations of the Department of Environmental Quality Engineering.

18. b. The Water District shall have the authority to terminate any water source to any facility where cross connections are maintained without required backflow prevention devices which have been approved by the District.

18. c. The Commissioners shall enact such Cross Connection Control Program and Regulations as are necessary to protect the public potable water supply served by the District from the possibility of contamination or pollution by isolating within its customers' internal distribution system, such contaminants or pollutants which could backflow or backsiphon into the public water system; and to promote the elimination or control of existing cross connections between its customers' in-plant potable water system, and not-potable water systems; and to provide for the maintenance of a continuing program of cross connection control which will effectively prevent the contamination or pollution of all potable water systems by cross connection, or to take any other action relative thereto.

ARTICLE 19. a. To see if the District will vote to accept the provisions of Chapter 705 of the Acts of 1986 which provides that the retired employees of the District may be insured for a greater amount of group life insurance and for a greater amount of group accidental death and dismemberment insurance as determined by the District, or to take any other action relative thereto.

19. b. To see if the District will vote to accept the following provisions of Chapter 32B of the General Laws, Section 9D 1/2, 9E and 16, or to take any other action relative thereto.

And you are directed to serve this Warrant by posting copies attested by you in two or more public places in the Water Supply District, fourteen days at least before the time of said meeting, as authorized by Chapter 41, section 119, of the General Laws.

Hereof fail not and make due returns of the Warrant with your doings thereon to the Water Commissioners on or before the time of holding said meeting.

Given under our hands this Twenty-Fifth day of January in the year one thousand nine hundred and eighty eight.

ALVIN R. PIPER, SR.
WILLIAM P. WALSH
STEPHEN C. STUNTZ
Water Commissioners

A true copy. ATTEST:

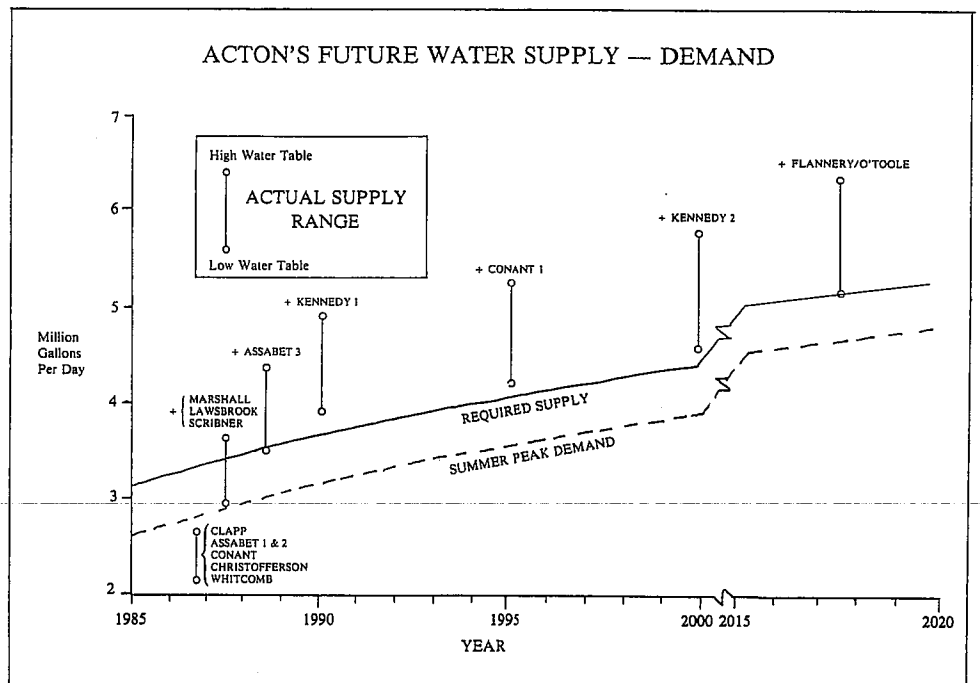
Anita E. Page
District Clerk

REPORT OF THE COMMISSIONERS

After years of meetings and negotiations and a final settlement concerning the pollution of the Assabet Well Acquirer, we were able to concentrate on other matters of importance. The greatest of these was: What to do with the monies received from the Grace Settlement?

As of this writing, we can tell you that the final decision is about to be made. The Treasurer of the Water District, Mr. Stephen Peterson, will make the final decision. He has been ably assisted by the Finance Committee, Counsel, District Accountant, and the Commissioners in interviewing representatives from five financial institutions regarding our investments.

We feel that the District will benefit from the proper investment for many years to come. Income from the investments will have a direct influence on the operation of the District. These funds can be used to finance future treatment plants as well as many other expenditures.



Speaking of treatment plants, you will read elsewhere in this report that the School Street/Scribner Lawsbrook area treatment plant is operational and all paid for from the Grace Settlement Funds. As previously stated, treatment for all of the wells is a consideration.

The Commissioners are formulating a fair and equitable means for charging developers who wish to tie into our system. We feel that the burden should be carried by the new water customer, not the old. The future growth in Acton will require the construction of a new reservoir, and we are already planning for same.

The future of the Acton Water District is positive. We will be able to meet the demands of the growth of the community into the year 2000 plus.

We wish to express our sincere appreciation to all who have made this past year a great success.

The Board of Water Commissioners would like to congratulate the District for receiving the Outstanding Community Award for Best Exemplifying Water Supply Quality in the State of Massachusetts and a personal award to John E. MacLeod, District Manager, for outstanding practice in supplying water to the residents of Acton.

Respectfully submitted,
Alvin R. Piper, Sr., *Chairman*
William P. Walsh
Stephen C. Stuntz

REPORT OF THE ENVIRONMENTAL ENGINEER

Concern about the quality of public drinking water is reaching new heights. There are many water quality issues that are of interest to all of us as suppliers and consumers alike. The Safe Drinking Water Act (SDWA) amendments have been passed, and implementation has begun and will continue to expand its coverage over the coming years. A major issue of the SDWA deals with the recognition to control the corrosive tendency of natural well-waters.

Typically, groundwater supplies in New England are classified as "aggressive". An aggressive water promotes aesthetic problems resulting in the staining of clothes and water fixtures. The chemical characteristics of a raw water supply can be evaluated to determine its corrosive potential. Chemical qualities include the parameters governing pH, alkalinity, hardness, calcium, and total dissolved solids concentrations. Knowledge of these chemical characteristics can be utilized to determine certain relationships which represent profiles of the waters' aggressive or scaling properties referred to as the "Langelier Index".

Anticipating the need to address this area within the Acton Water District System, a pilot study was initiated several years ago to define the corrosive characteristics by determining the Langelier Indices of the existing well-water sources. The results indicated a corrosive water condition at all the wells, with values varying in the low to moderate ranges.

The corrective action taken reflected the results of the pilot study. Consequently, in the Spring of 1987, the Acton Water District installed chemical addition facilities at all well sites, enabling the injection of Potassium Hydroxide to raise the alkalinity of the water to more optimal pH levels, thus satisfying the calculated Langelier Index control mechanism.

As an enhancement to corrosion mitigation aspects, the District is also contemplating a more comprehensive remedial program to augment main flushing operations during the warmer weather. This effort in conjunction with the recently implemented chemical addition program will optimize the overall effect to achieve desirable corrosion control and aesthetic features in the water distribution system.

Respectfully submitted,
Joseph Markind
Environmental Engineer

REPORT OF THE FINANCE COMMITTEE

The Finance Committee has, in conjunction with the Commissioners, Legal Counsel, Accountant, District Manager and Treasurer, begun the process of interviewing investment management firms to conservatively and appropriately invest the approximately \$1.8 million dollars remaining in the W. R. Grace settlement account to insure future growth of the fund for long term availability to the Water District.

A grant of \$188,723.88 from the State has been repaid from the W. R. Grace fund. This is another first for a town to repay the state for monies received. The original grant was for the treatment plant at the Assabet Well.

The current budget reflects a 3% increase from last year. There is no increase in the water rates again this year.

The Committee would like to thank the District employees for their support this past year, especially Jock MacLeod, District Manager, and Pete Peterson, Treasurer.

We wish to extend congratulations to Jock MacLeod for receiving the Paul F. Howard award from the Massachusetts Water Works Association and the Commissioners and the District for receiving the Community Award of Merit in recognition of its high standard of water supply practice from the same organization.

Joyce Foley, *Chairman*
William L. Kingman
Theodore Jarvis
Finance Committee

WATER SUPPLY DISTRICT
OF
ACTON, MASSACHUSETTS
AMORTIZATION SCHEDULE - BONDS AND INTEREST

12

	<u>Original Amount</u>	<u>Balance 7/1/88</u>	<u>1988-1989 Principal Interest</u>	<u>1989-1990 Principal Interest</u>	<u>1990-1991 Principal Interest</u>	<u>1991-1992 Principal Interest</u>	<u>1992-1993 Principal Interest</u>	<u>1993-1994 Principal Interest</u>	<u>1994-1995 Principal Interest</u>	<u>1995-1996 Principal Interest</u>	<u>1996-1997 Principal Interest</u>	<u>1997-1998 Principal Interest</u>
Nagog Hill Reservoir	540,000.	150,000.	30,000.00 7,695.00	30,000.00 5,985.00	30,000.00 4,275.00	30,000.00 2,565.00	30,000.00 855.00	30,000.00 855.00				
Water Bonds	385,000.	60,000.	25,000.00 2,850.00	20,000.00 1,710.00	20,000.00 570.00							
Water Bonds	220,000.	40,000.	10,000.00 1,697.50	10,000.00 1,212.50	10,000.00 727.50	10,000.00 242.50						
Building	130,000.	40,000.	10,000.00 1,697.50	10,000.00 1,212.50	10,000.00 727.50	10,000.00 242.50						
Water Bonds	910,000.	430,000.	80,000.00 41,325.00	80,000.00 33,725.00	80,000.00 26,125.00	80,000.00 18,525.00	60,000.00 10,725.00	50,000.00 4,875.00				
Water Bonds	595,000.	445,000.	50,000.00 33,375.00	50,000.00 29,625.00	50,000.00 25,875.00	50,000.00 22,124.00	50,000.00 18,375.00	50,000.00 14,625.00	50,000.00 10,875.00	50,000.00 7,125.00	45,000.00 3,375.00	
Water Bonds	625,000.	495,000.	55,000.00 32,960.00	55,000.00 29,440.00	55,000.00 25,920.00	50,000.00 22,400.00	50,000.00 19,200.00	50,000.00 16,000.00	50,000.00 12,800.00	50,000.00 9,600.00	50,000.00 6,400.00	50,000.00 3,200.00
TOTALS	\$ 3,405,000.	\$ 1,660,000.	\$ 381,600.00	\$ 362,910.00	\$ 339,220.00	\$ 296,100.00	\$ 239,155.00	\$ 216,355.00	\$ 123,675.00	\$ 116,725.00	\$ 104,775.00	\$ 53,200.00

APPROPRIATIONS AND EXPENDITURES FOR 86 - 87 - 6 months of 88

	1986 Appro.	1986 Expend.	1987 Appro.	1987 Expend.	1988 Appro.	1988 6 Mos.	1989 Proposed
Salaries & Wages.....	\$256,800. c3,302.	\$261,934.	\$292,800.	\$291,565.06	311,000.	158,898.80	334,000.
Group Insurance.....	19,000.	19,910.	21,000.	21,000.00	22,100.	12,101.06	27,000.
MDX County Retirement.....	15,000.	15,000.	24,000.	24,000.00	32,000.	17,940.50	38,000.
Educational Expense.....	5,000.	4,967.	5,000.	5,000.00	5,000.	3,908.70	6,000.
Maintenance & Operation.....	40,000.	83,177.	60,000.	60,000.00	65,000.	53,701.90	70,000.
Meters.....	6,000.	8,488.	6,000.	5,991.07	7,000.	5,354.36	10,000.
Auto & Equipment.....	16,000.	15,785.	16,000.	12,715.53	17,000.	5,795.14	17,000.
Fuel.....	5,000.	4,792.	5,000.	4,838.07	5,000.	1,828.96	5,000.
Equipment Rental.....	2,000.	2,076.	2,000.	2,000.00	2,000.	-0-	2,000.
Permanent Paving.....	3,000.	2,481.	3,000.	3,000.00	3,000.	2,061.83	4,000.
Chemicals.....	120,000.	22,098.	c97,902.	71,099.24	70,000. c26,802.	15,563.75	45,000.
Lights, Power, Telephone.....	139,000. c12,015.	97,302.	75,000.	75,000.00	60,000.	51,536.83	c70,000.
Laboratory Analysis.....	5,000.	3,450.	5,000.	3,313.44	5,000. c1,686.	7,710.30	5,000.
Treatment Plant - Spec. Anal. ...	5,000.	5,000.	5,000.	4,484.11	-0-	-0-	-0-
Insurance.....	20,500.	21,561.	26,000.	26,000.00	35,000.	36,049.40	48,000.
Office Supplies.....	7,500.	7,887.	7,500.	7,414.59	6,500.	7,252.79	7,500.
Postage.....	5,000.	5,000.	5,000.	4,923.50	5,000.	2,495.00	6,000.
Mass. State Audit.....	-0- c5,500.	-0-	c5,000.	-0-	c5,500.	-0-	9,000. c5,500.

Legal & Accountant.....	12,000. c2,286.	14,215.	12,000.	12,000.00	12,000.	3,225.00	12,000.
Water Works Notice	2,000.	1,401.	2,500.	444.68	c2,055.	1,695.28	1,000.
Advisory Committee.....	1,000. c84.	-0-	500.	-0-	500.	-0-	500.
Micellaneous.....	1,000.	426.	1,000.	775.11	1,000.	219.92	1,000.
Land Survey	-0-	-0-	8,000.	-0-	5,000.	3,825.00	-0-
Land Appraisal	c3,250.	4,220.	-0-	-0-	-0-	-0-	-0-
Engineering	10,000. c3,038.	13,027.	10,000.	5,110.00	10,000.	8,035.00	10,000.
Survey New Water.....	5,000. c226.	3,063.	c2,162.	1,837.50	2,000. c324.	-0-	2,000.
Bonds & Interest	362,633. c24,570.	363,330.	450,135. c23,873.	416,410.54	410,675. c57,597.	157,852.15	385,000.
Reserve Fund	40,000.	35,845.	25,000.	23,622.38	25,000.	1,802.19	35,000.
Special Legal.....	100,000.	98,674.	50,000.	141,179.60	-0-	-0-	-0-
TOTAL BUDGET	\$ 1,213,933.	\$1,115,540.	\$1,117,435.	\$1,196,724.42	\$1,116,775.	\$580,426.46	\$1,150,000.

c - Previous yrs. monies not spent. Carried over.

ESTIMATED RECEIPTS 1989

Hydrants	\$ 54,400.00
Water Rates	1,015,100.00
Sprinklers	10,500.00
Repairs & New Installations	70,000.00
TOTAL RECEIPTS	\$ 1,150,000.00

Alvin R. Piper, Sr.
 William P. Walsh
 Stephen C. Stuntz
Water Commissioners

REPORT OF THE DISTRICT MANAGER

The following report covers the activities of the District for 1987.

New house installations.....	48
Old service lines replaced or renewed.....	15
Old meters replaced with new meters.....	70
Repair of damaged hydrants.....	10
Repair of water main and service breaks.....	18
Replacement of old fire hydrants.....	4
Total gallons pumped in 1987.....	617,165,900

New water mains were installed at the following locations:

- Sacham Way (off Rte. 2A Great Road)
- Sutton Place (off Nagog Hill Road)
- New Office Park (off Mass. Ave. Near Rte. 2)
- Breezy Point (off Rte. 2A off Great Road)
- Rex Lumber (off Rte. 27 North Main Street)
- Deck House (off Rte. 27 North Main Street)

The Water District now has 9 Wells to supply water to the town of Acton. The latest well installed was the Marshall Well, located in North Acton near the Carlisle town line. This well went on line in July of 1987.

The Water District's water treatment facility, located at the Assabet Well site, has been in operation for four years. The facility, which consists of aeration and carbon filtration provides treatment that ensures that the quality of water being supplied to the water distribution system consistently meets the District's strict water quality standards of 1 ppb for any single volatile organic chemical and 5 ppb for total organic chemicals.

The Clapp Well, located in West Acton off Massachusetts Avenue, has been back in use for the past 40 months. It had been shut down in 1982 due to organic chemical contamination. The installation of carbon treatment has allowed us to use the water source and provide a water quality that meets the District's standards. Provisions have been made to re-pipe water from the Whitcomb Well through the Clapp Well treatment facility if it becomes necessary.

The District's new treatment plant located off School Street and Lawsbrook in South Acton is ready for operation. This treatment plant will treat the Christofferson Well, Lawsbrook Well and Scribner Wellfield. Two of these wells have been shut down since 1984 due to organic chemical contamination.

During certain times of the year the Whitcomb Well, which is located off Massachusetts Avenue in West Acton, experiences a high color problem. The excessive color is due to the well location in a peat bog formation containing decaying vegetation. Problems associated with high color are strictly aesthetic and do not adversely contribute to health. Water from this well, which is used during periods of high water demands, is blended with water from the Clapp Well in order to reduce the effects of the color.

The District also adds Flouride to all of its wells and we also started adding Potassium Hydroxide to all of our wells in 1987 to raise the pH from 6.2 to 7.5 to make our water less corrosive and to taste better and control stains on sinks, etc.

The District also purchased some land so we own enough land around three future well sites and the District also had a parcel of land donated to us for a future well site from John & Violet Flannery & family from Acton, Mass.

The District did some flushing of its water mains this year to help alleviate some of the aesthetic complaints relating to color, taste and odor and we will be doing more flushing in 1988.

The District installed a stand-by Generator at the Assabet Treatment Plant this year so we can supply proper pressure and volume during power failures throughout our water system.

The District's engineers have also completed a computer model of our system so we can properly address the expansion of future growth and demand use to our system. With this system we can safely supply water pressure and public safety to all of our customers now and in the future years.

The District had one of its employees retire in 1987 (James Neville). He dedicated 17 years of devoted service to the Acton Water District.

The District also hired a new Environmental Engineer this year (Joseph Markind) from Acton. He is a Chemist which will make him a very valuable asset to the District.

The District will provide a tour of the Assabet Treatment Facility to any citizen of Acton. Arrangements can be made by contacting the District Manager or the Environmental Engineer.

Several of the District's employees have completed, and will continue to attend, courses and seminars on water supply and water pollution issues. All of the Water District employees have passed the State Operator Certification Examination.

The Water District and Town staffs have established a new program of communication with respect to growth and other issues of major concern.

The Acton Water District received the 1987 Community Award for the State of Massachusetts for the best exemplifying the highest standards of water supply practice. The award was given out by the Massachusetts Water Works Association. Also, I received the Paul F. Howard Award in recognition of knowledge, contributions and accomplishments in the Water Supply Industry. Acton was chosen out of 351 Massachusetts Cities and Towns.

Over the past few years, the District has accumulated a library of educational material that remains on file. This material is always available for review by citizens of Acton.

I am also working with several local communities concerning our water supply problems. In an attempt to determine measures that we can all take to make our departments more efficient and our environment safer, we have formed a new professional organization called the Middlesex Worcester County Water Association. I am also President of this Association.

The Water District has received financial assistance from the Commonwealth of Massachusetts in the form of grants and reimbursements. The District will continue to apply for grant money as it becomes available.

I would like to take this opportunity to express my sincere thanks to the Board of Water Commissioners, Finance Committee, Land-Water Management Advisory Committee, Town Manager, Board of Selectmen, Board of Health, Department of Public Works, Engineering Department, Planning Board, Groundwater Protection Committee, Acton Fire Department, Acton Police Department, Acton School Department and all the citizens of Acton. In addition, I would like to thank DEQE, EPA, U.S. Representative Chester Atkins, State Representative John Loring, State Senator Paul Celucci and neighboring towns who have helped us with our problems. I also look forward to better communications with all Town, State and Federal departments with whom the Water District associates.

John E. MacLeod
District Manager

REPORT OF THE DISTRICT ACCOUNTANT

Balance Sheet
June 30, 1987
(Unaudited)

Account	Credit	Debit
Cash (Including Invested Cash)	\$ 804,117.77	
Cash (Reserved for Appropriation)	2,197,434.62	
Special Surplus (Receipt Reserved for A p p r o p r i a t i o n)		\$ 2,197,434.62
Cash (Maillett Escrow)	34.11	
Adams Street Main (Maillett)		34.11
Petty Cash	80.00	
Reserve Petty Cash		80.00
Surplus Revenue		213,304.61
Water Rates & Services	50,932.29	
Water Revenue Reserve		50,932.29
Telemetry System		875.70
Kennedy Land & Sportsman Club		212,150.00
Master Plan Update		421.00
Lawsbrook Main		200.00
Laboratory Equipment		22.07
Potassium Hydroxide		14,626.50
Water Main - Rte. 27		77.21
Clapp Well Study		10,603.09
Clapp Land Pumping Test		26,535.00
Special Study		1,006.00
Rehabilitation Great Hill Standpipe		2,711.92
Scribner Well Study		4,980.00
Whitcomb Well Study		5,293.00
Clapp Well Aquifer Clean-up		13,154.74
Septage Lagoons Disposal		4,900.00
Monitoring Well - School Street		10,000.00
Emergency Power Source		4,762.50
Marshall Well		56,651.28
North Acton Main		38,292.75
Ground Water Monitoring Well		15,000.00
Water Distribution System		10,000.00
Steel Building		55,000.00
Bonds & Interest		57,597.51
Land Survey		8,000.00
Mass. State Audit		5,500.00
Chemicals		26,802.35
Laboratory Analysis		1,686.56
Water Works Notice		2,055.32
Survey for New Water Supply		324.64
Advisory Committee		1,584.02
	3,052,598.79	3,052,598.79

REPORT OF THE DISTRICT ACCOUNTANT
(Continued)

July 1, 1987 - June 30, 1988		
Estimated Revenue (3/18/87)	1,116,775.00	
Anticipated Control-7/1/87-6/30/88 (voted at 3/18/87 meeting)		<u>1,116,775.00</u>
	<u>4,169,373.79</u>	<u>4,169,373.79</u>

Raymond L. Page
District Accountant

REPORT OF THE TREASURER
Cash Receipts and Disbursements
July 1, 1986 through June 30, 1987

Cash Balance for July 1, 1986..... \$ 862,168.73

CASH RECEIPTS

Water Rates.....	967,969.87	
Hydrants	54,275.00	
Sprinklers	9,565.00	
Installation & Repair.....	136,232.12	
Baystate Rental Fees	4,000.00	
Looping (State)	17,700.00	
Flouride (State)	3,232.00	
Miscellaneous	4,052.00	
Temporary Loan.....	38,245.00	
Bond Issue	625,000.00	
Sales Tax	298.37	
Total Cash Receipts		1,928,760.11

CASH DISBURSEMENTS

Salaries & Wages.....	291,565.06	
Insurance - Health.....	21,068.71	
Middlesex County Retirement	27,461.00	
Special Education	5,000.00	
Maintenance & Operation	70,557.37	
Meters.....	5,991.07	
Auto & Equipment	12,715.53	
Utilities & Fuel	79,838.07	
Equipment Rental	5,305.00	
Permanent Paving.....	3,542.30	
Chemicals	71,099.24	
Laboratory Analysis	3,313.44	
Treatment Plant Special Analysis	4,484.11	
Insurance - Domestic	29,688.00	
Office Supplies & Postage	12,338.09	
Audit	0.00	
Legal & Accountant.....	14,000.00	
Special Legal.....	114,179.60	
Water Works & Miscellaneous.....	1,219.79	
Advisory Committee.....	0.00	
Land Survey - Appraisal - New Water.....	1,837.50	
Engineering	5,110.00	
Bonds & Interest	416,410.54	
Special Appropriations.....	733,341.87	
Escrow	387.30	
Sales Tax	298.37	
Temporary Note	55,945.00	
Total Cash Disbursements		1,986,696.96

Ending Cash Balance June 30, 1987 804,231.88

REPORT OF THE COLLECTOR
JULY 1, 1986 TO JUNE 30, 1987

Outstanding June 30, 1986	\$	58,922.88
Charges		1,170,559.44
Adjustments		916.19
Credit		<u>17.50</u>
 Total		 \$1,230,416.01

Payments	\$	1,171,589.69
Adjustments		181.30
Abatements		4,020.16
Outstanding		<u>54,624.86</u>
 Total		 \$1,230,416.01

W. R. Grace Settlement Account	
January 14, 1987	\$ 2,250,000.00
Interest	<u>51,553.20</u>
Total	2,301,553.20
 Disbursements	 <u>104,118.58</u>
Ending Cash Balance June 30, 1987	\$ 2,197,434.62

Stephen G. Peterson
Collector - Treasurer

WATER MEETING

Abstract of the proceedings of the Annual Meeting of the Water Supply District of Acton, held in the Acton-Boxborough Junior High School Auditorium, Charter Road at Massachusetts Avenue, Acton.

WEDNESDAY, MARCH 18, 1987, at 7:30 PM

ARTICLE 1. VOTED: To fix the salaries of the elected officers as follows:

Chairman of the Commissioners	\$1,200.00 per year
Two (2) Commissioners	\$1,000.00 per year
Moderator	\$50.00 per meeting
Clerk	\$600.00 per year

(Majority)

ARTICLE 2. VOTED: To accept the reports of the Commissioners, the Treasurer and other officers and committees of the District.

(Unanimous)

ARTICLE 3. VOTED: That the District authorize the Treasurer, with the approval of the Commissioners, to borrow in anticipation of the revenue for the fiscal year beginning July 1, 1987, in accordance with the provisions of General Laws, Chapter 44, Section 4, and to renew any note or notes as may be given for a period of less than one year, in accordance with the provisions of General Laws, Chapter 44, Section 17.

(Unanimous)

ARTICLE 4. VOTED: To instruct the Commissioners to have an audit of the various accounts of the District.

(Unanimous)

ARTICLE 5. VOTED: To appropriate from estimated receipts of the District the sum of \$1,116,775.00 for the maintenance and operation of the District, and specific appropriations as follows:

Estimated Budget Expenditures for 1987 - 1988

Group Insurance	\$ 22,100.00
Bond and Interest	410,675.00
Salaries & Wages	311,000.00
Equipment Rental	2,000.00
Lights, Power & Telephone	60,000.00
Fuel	5,000.00
Land Survey	5,000.00
Maintenance & Operations	65,000.00
MDX. County Retirement	32,000.00
Postage	5,000.00
Miscellaneous	1,000.00
Mass. State Audit	Carry Over
Legal & Accounting	12,000.00
Land Appraisal	- 0 -
Engineering	10,000.00
Insurance	35,000.00
Meters	7,000.00

Auto & Equipment Expense	17,000.00
Reserve Fund	25,000.00
Office Supplies	6,500.00
Laboratory Analysis	5,000.00
Chemicals	70,000.00
Survey New Water	2,000.00
Special Legal	- 0 -
Educational Expense	5,000.00
Permanent Paving	3,000.00
Water Words Notice	Carry Over
Advisory Committee	500.00
Treatment Plant - Special Analysis	- 0 -
Total Budget	<u>\$1,116,775.00</u>

	Estimated Receipts	
Hydrants		54,000.00
Water Rates		992,275.00
Sprinklers		10,500.00
Repairs & New Installations		<u>60,000.00</u>
Total Receipts		<u>\$1,116,775.00</u>

(Unanimous)

ARTICLE 6. VOTED: That the district authorize the Commissioners to enter into a written lease not to exceed one (1) year with Bay State Explosives Company, Inc., a Massachusetts corporation having a usual place of business in Acton, Massachusetts, for the purpose of continued use of three magazines for the storage of explosives on land owned by the District located off Powder Mill Road and New High Street in said Acton and subject to the terms and conditions of a permit issued by the Town of Acton, at an annual rental of \$4,000.00, which lease shall include such other terms, conditions and limitations as the Commissioners shall deem necessary or proper.

(15 Yae - 1 Nae)

ARTICLE 7. VOTED: That the District transfer from surplus revenue the sum of \$10,000.00 to do a computer model of water distribution system.

(Unanimous)

ARTICLE 8. VOTED: That the District authorize the Treasurer, with the authorization of the Commissioners, to transfer from Surplus Revenue, the sum of \$55,000.00 for the construction of a package steel building with heat to protect the carbon treatment vessel at the Clapp Well, located off Massachusetts Avenue in West Acton near the Boxborough Town line and to accept any federal or state funds towards the cost of the project.

(Unanimous)

ARTICLE 9. VOTED: That the District transfer from surplus revenue the sum of \$64,419.60 to pay Posternak, Blankstein & Lund, the District's special trial counsel in the W. R. Grace lawsuit.

(Unanimous)

ARTICLE 10. VOTED: That the District purchase or take by eminent domain or otherwise acquire, the fee in all or part of the land owned now or formerly by Massachusetts Broken Stone Company, located off the westerly side of Knox Trail in South Acton, Middlesex County, Massachusetts, and being shown on a plan prepared for the Water Supply District and entitled, "Plan of Land owned by Massachusetts Broken Stone, dated February 2, 1987," containing about 4.75 acres, more or less, and being a part of the land described in deed recorded in Middlesex South District Registry of Deeds, Book 7490, Page 20. Said land acquisition is for water supply purposes and for the development of a well and water source; and transfer from the Receipt Reserve for Appropriation Account (W. R. Grace 1987 Settlement) the sum of \$16,625.00 for said purpose, and the sum of \$5,300.00 for land survey, appraisal and engineering costs and expenses incident thereto.

(Unanimous)

ARTICLE 11. VOTED: That the District transfer from the Receipt Reserve for Appropriation Account (W. R. Grace 1987 settlement) the sum of \$50,000.00 for the maintenance and operation, carbon replacement and power costs at the various treatment plants operated by the District.

(Unanimous)

ARTICLE 12. VOTED: That the District transfer from the Receipt Reserve for Appropriation Account (W. R. Grace 1987 settlement) the sum of \$315,000.00 to construct an air stripping packed column with air blower, pumps, electrical controls, underground sump, buildings to house pumps, and install necessary water mains, and to construct a treatment plant for treatment of water from the Lawsbrook Well, Scribner Wellfield and Christofferson Well, all located in South Acton.

(Unanimous)

Adjourned: 8:26 PM

A true copy:

Attest:

Anita E. Page
Clerk

March 18, 1987

WATER MEETING

Abstract of the proceedings of the annual election of officers of the Water Supply District of Acton, held on

MONDAY, APRIL 6, 1987

at the six precincts of the Town of Acton (Polls open from 7:00 A.M. to 8:00 P.M.)

Total number of ballots cast: 826

The following were elected:

Commissioner for 3 years: Stephen Stuntz	414
Moderator for 1 year: John Putnam	660
Clerk for 1 year: Anita E. Page	671

A true copy:
Attest:

Anita E. Page
District Clerk

WATER MEETING

Abstract of the proceedings of the Special Meeting of the Water Supply District of Acton, held in the Acton-Boxborough Junior High School Auditorium, Charter Road at Massachusetts Avenue, Acton.

WEDNESDAY, October 7, 1987, at 7:30 PM

ARTICLE 1. VOTED: To transfer from Surplus Revenue a sum of \$20,000.00 for additional pumping tests to determine the feasibility of developing a well or well field as a public supply on land owned by Brewster Conant located on the southerly side of Brook Street and the westerly side of Great Road in Acton Center.

(Unanimous)

ARTICLE 2. VOTED: To transfer from Surplus Revenue a sum of \$15,000.00 to have the Boston Gas Company install a natural gas main from High Street into the existing Treatment Plant building and Emergency Generator Building on land owned by the Water Supply District located approximately 1200 feet off High Street.

(Unanimous)

ARTICLE 3. VOTED: Defeated.
(44 Nae - 19 Yea) - Two thirds vote required.

VOTED: To take Article 8 next.

(Unanimous)

ARTICLE 8. VOTED: To take no action.

(Unanimous)

ARTICLE 4. VOTED: To transfer from the receipt reserve for appropriation account (W. R. Grace 1987 settlement) the sum of \$188,723.88 to reimburse the Department of Environmental Quality Engineering, Commonwealth of Massachusetts, for funds made available by grant from the Department of Environmental Quality Engineering under the provisions of Regulations entitled "State Grants for Drinking Water Filtration Plants", which regulations implemented the provisions of Chapter 406 of the Acts of 1978, as amended by Chapter 771 of the Acts of 1979. Said grant funds were used to build a treatment plant at Assabet Well #2 in South Acton.

(Unanimous)

ARTICLE 5. VOTED: To authorize the Commissioners to accept a gift of a certain parcel of land being a part of Lot 5, Knox Trail in South Acton, and consisting of about one-half acre, more or less, and owned by Oscar Kress and Edward Rockett, Trustees of RGK Limited Partnership Trust, 2352 Main Street, Concord, Mass., 01742. Said land is adjacent to Assabet Well #3.

(Unanimous)

ARTICLE 6. VOTED: To authorize the Commissioners to accept a deed to two parcels of land, Parcel M-1, consisting of about 79,752 square feet, and Parcel F-2, consisting of about 19,690 square feet, shown on a plan entitled, "Plan of Land in Acton, Mass., owned by W. R. Grace & Co., dated February 23, 1987, revised March 31, 1987," prepared by Acton Survey & Engineering, Inc.; and said conveyance is part of the final settlement in the civil suit, Water Supply District of Acton vs. W. R. Grace & Co., case No. 81-710-G, United States District Court for the District of Massachusetts. Assabet Well #3 is located on the land above described.

(Unanimous)

ARTICLE 7. VOTED: To authorize the Commissioners to enter into a written lease or license on such terms and conditions as the Commissioners shall determine, not to exceed seven (7) years with Walden Communications Company, Inc., Boston, Mass., a certain area of land located within four hundred feet (400 ft.) radius of Assabet Well #3, located off Knox Trail in South Acton; said area to be used in connection with a new radio antenna system for a community radio station licensed by the Federal Communications Commission, owned and operated by Walden Communications, Inc., and to authorize the Commissioners of the District to collect an annual fee of \$1,200.00.

(Unanimous)

Adjourned: 9:14 PM

A true copy:

Attest:

Anita E. Page
Clerk

October 7, 1987

RULES AND REGULATIONS
Amended January 8, 1988

The following Rules and Regulations shall be considered a part of the Contract with every person using the water.

1. All applications for the use of water are available at the Whitcomb Pumping Station, Mass. Avenue. Demand charge schedule is set forth as follows:

PIPE SIZE	DEMAND CHARGE
¾"	\$ 1,000.00
1"	1,260.00
1 ¼"	2,280.00
1 ½"	3,720.00
2"	7,920.00
Over 2" line	10,000.00
Sprinkler	Square footage of bldg.
Multi-dwelling (per apt. or each living unit)	600.00
Hydrant Flow Test	200.00

EFFECTIVE - AUGUST 22, 1983
SPRINKLER DEMAND CHARGES

Buildings up to 20,000 square feet =	\$ 500.00
Buildings between 20,000 square feet and 40,000 square feet =	\$1,000.00
Buildings between 40,000 square feet and 60,000 square feet =	\$1,500.00
Buildings between 60,000 square feet and 80,000 square feet =	\$2,000.00
Buildings over 80,000 square feet =	\$2,500.00

Pipe sizes and type for any installation will be determined by the Water Commissioners or their agents. Cost of installation service will be charged to applicant separate of the demand charge. Costs will be paid before the water is turned on. The demand charges are payable prior to service connection.

2. Costs of new service installations from the water main into the house, including meter, shall be paid for by the owner or applicant before the water will be turned on.

3. No person will connect, or cause to be connected, any service pipe with the main or any distributing pipes, except by order of the Water Commissioners made on such application for new service. No permanent outside sprinkler system shall be allowed unless approved by the Board of Health.

4. Periodic inspection of pipes to the meter may be made by the District Manager or Foreman. When equipment is found defective all payment for the necessary repairs between the property line and the meter shall be assessed to the owner. Persons allowing their meter to be damaged by frost or otherwise will be held responsible therefore. The District will keep meters in repair from ordinary derangements.

5. All apparatus and all places supplied with water must be accessible at all reasonable times to the inspection of the Commissioners or their agents.
6. No alterations shall be made to the service installed by the Water District except by authorized agents of the Water District.
7. The Water District shall not in any way, nor under any circumstances, be held liable or responsible to any person or persons for any loss or damage from any excess or deficiency in the pressure, volume or supply of water, due to any cause whatsoever. The Water District will undertake to use all reasonable care and diligence to avoid interruptions and fluctuations in the service, but cannot and does not guarantee that such will not occur.
8. The Water District will not be responsible for damages caused by dirty water resulting from the opening or closing of any gates for repairs or any other reasons, the use of hydrants, or the breaking of any supply lines.
9. The Water District will endeavor to give due notice to as many of the consumers affected as time and character of the work permit whenever it may be necessary to shut off the supply from any section of the District to make repairs or changes or because of a broken main and will as far as practicable, use every effort to prevent damage or inconvenience; but failure to give such notice will not involve the Water District in any responsibility or liability for damage arising from the shutting off of any supply or any subsequent conditions arising therefrom.
10. The Water District reserves the right at any time without notice to shut off the water supply for the purpose of making repairs, extensions, or other reasons, and all consumers having boilers or other appliances on their premises are hereby warned against danger of collapse from these sources and are urged to provide safety devices for their own protection. In any event the District expressly stipulates that there shall be no liability for damages resulting therefrom.
11. The Water District will not assume any liability for conditions in the consumer's plumbing or appliances, which may be the cause of trouble, coincident with or following repairs made to any part of the supply system by the District.
12. Service pipes or fixtures of any description, that are connected with the mains of the Water District, shall not under any circumstances be connected with any other sources of water supply.
13. The Water Commissioners reserve the right to shut off water for the purpose of making alterations or repairs. A Water service may be shut off from any taker for non-compliance with the Rules and Regulations for non-payment of water rates and violation of Massachusetts General Laws relating to water supply. When water has been shut off because of disregard of rules or non-payment of rates it will be turned on again when the Commissioners are satisfied that there will be no further cause of complaint and on the payment of fifteen dollars. With the approval of the Department of Environmental Quality Engineering (Chapter 40, Section 41A of the MA General Laws), the Commissioners reserve the right to restrict the use of water if necessary in any manner deemed appropriate.
14. The Fire Department will have control of the hydrants in case of fires and for necessary practice. In no other case will any person be allowed to handle hydrants or other water apparatus without permission of the Water Commissioners.
15. No water taker will be allowed to supply water to others except by special permit from the Board of Water Commissioners and if found doing so without a permit, the supply will be shut off.

16. Owners should notify the Water District to shut off water if the building becomes vacant. Water will be turned on again when the owner notifies the Water District and upon the payment of five dollars for turn-on.

17. All bills for new services, repairing old services, supplies and labor, must be paid within thirty days from date of bill.

18. The water may be turned off without notice when bills for water remain unpaid for fifteen days after they become due, thirty days from the date of issue. Owners of premises will be held responsible for the water bills of their tenants.

Unpaid water bills are now a lien on real estate and collections may be made by the sale of property: Massachusetts Legislature, Acts of 1923, Chapter 391.

19. Any person who shall remove, change, alter or willfully damage or injure any meter will be liable for all damages. Any change in meter location shall be done under the direction of the District Manager or Foreman.

20. On all dwelling houses, apartments and condominiums, a minimum charge shall be made for water for each family or living unit for which the owner or owners shall be liable, if it is desired that all water flow through one meter. Larger quantities of water shall be charged on the above same basis.

On all business and/or professional buildings, for non-dwelling use, there shall be a charge for each toilet and/or lavatory facility, for which the owner shall be liable.

The District Manager or authorized agent shall be empowered by the Commissioners to confer with the owner or his agent to establish the number of facilities for which the minimum service charge shall be made. The minimum payment will be applied toward charge for water at the rates established under the rules and regulations for the Water Board, but if less quantity of water is used than the quantity for which the minimum charge would pay, no deduction from the minimum charge will be made.

21. Voted: That the District amend the By-Laws by adding a new section ten which reads as follows: "Any person violating any order restricting water use imposed by vote of the Commissioners shall be fined not more than \$200.00 for each offense, which shall inure to the District for such uses as the Commissioners may direct. Fines shall be recovered by indictment or on a complaint before the district court, or by non-criminal disposition in accordance with section twenty-one D of Chapter 10 of the General Laws. Every day that such violation continues shall constitute a separate offense".

22. Effective October 1, 1985 water users will be billed as follows: Minimum Price at which water will be furnished, including the use of the meter, will be \$12.00 per each 3 month period. This will allow the use of 1000 cubic feet each 6 months, with no refund or abatement for amounts of water less than 1000 cubic feet used.

On January 1, and July 1, a minimum charge of \$12.00 will be made to each user. Excess water for each 6 month period will be billed in October and April as follows:

Water usage in excess of 100 cubic feet shall be billed at the rate of \$1.50 per 100 cubic feet.

A minimum charge shall apply to each family or living unit. A minimum charge shall apply to all non-residential users in accordance with applicable sections of Rules, Regulations and Rates. Larger quantities of water beyond the minimum shall be charged as set forth above.

New owners having had possession of property less than 30 days and less than 1,000 cubic feet of water will be billed at the rate of \$1.50 per 100 cubic feet.

There will be a minimum closing charge of \$5.00 for final water meter reading.

Water rates, demand charges, rental fees, hydrants and sprinklers and other charges imposed by the District shall be determined by vote of the Commissioners at a regular or special meeting of the Commissioners.

23. If a meter is out of order and fails to register, the consumer will be charged at the average daily consumption as shown by the meter when in order. An average will be taken of the last 3 corresponding readings.

24. Any and all penalties for violations of these regulations or arrearages for non-payment of water rates or charges may be collected as authorized by law in a civil action.

25. The commissioners shall regulate the use of water in such manner as they deem for the best interest of the District, fix and collect prices and rates for the use thereof, prescribe the time and manner of payment of such prices and rates. The Commissioners shall have exclusive charge and control of the water department and water system, subject to all lawful by-laws, and subject to such instructions as the District may from time to time impose by its vote.

26. The Water District will have an inspector on sites where new water main and necessary fittings are installed in new developments, private roads, business and commercial sites. The Water District shall charge an hourly fee which will be paid to the Water District by the owner, contractor or developer. All materials used shall meet the specifications of the Water Supply district of Acton.

27. No person shall turn on or tamper with a water main or hydrant or other device used for water supply, or install a bypass around a water meter without first procuring a written permit to do so from the Manager of the Water District. Any person violating said section shall be fined not more than \$200.00 for each offense, which shall inure to the District for such uses as the 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. Every day that such violation continues shall constitute a separate offense. This section shall not curtail the fire department or Water District in the normal course of providing fire protection or water supply.

28. Any person making application for water use having a design demand in excess of 5,000 gallons per day, shall submit a concept plan with sufficient information so that the Water District can generate a Water Impact Report. This report shall: 1.) define the plans impact on the District's current/future water demand and existing water supply system, and 2.) stipulate conditions that the applicant shall meet to mitigate the effects of this impact. The Water Impact Report shall be reviewed and approved by the Water Commissioners. Costs associated with generating the Water Impact Report shall be borne by the applicant.

29. All new Industrial and Commercial Establishments attached to the Acton Water System will be required to install, at the service entrance and immediately downstream of the meter, a Reduced Pressure (RP) Back Flow Device. The Device must be approved by the Acton Water District and all costs will be paid by the owner/s and or the person/s to whom the bills are so assigned.

BY ORDER OF THE
ACTON WATER COMMISSIONERS

ALVIN R. PIPER, SR. *Chairman*
WILLIAM P. WALSH
STEPHEN C. STUNTZ

BYLAWS TO REGULATE THE NOMINATION AND
ELECTION OF OFFICERS OF THE DISTRICT

- I The purpose of the Bylaws hereinafter set forth are to regulate the nomination and election of officers for the District so that the voters of the District may have knowledge of the candidates prior to an election.
- II All elections to any office in the District shall be by means of a printed ballot. This ballot shall be caused to be printed by the Commissioners acting as election officers from information furnished to them by the Clerk of the District as provided hereinafter.
- III No person's name shall be printed on the ballot unless he or someone on his behalf has submitted nomination papers signed by fifty registered voters of the District, setting forth the office for which he is a candidate and containing a statement signed by the candidate that he will accept the office, if elected. Nomination papers of a candidate for office of the District shall be filed with the Clerk of the District in accordance with Chapter 53, Section 10 of the General Laws. Submission to the Registrar of Voters shall be in accordance with Chapter 41, Section 115 of the General Laws.
- IV Nothing herein shall be construed as preventing a vote by stickers or writing in the name of a candidate, all as provided in the General Laws, except that no such sticker or write-in candidate shall be deemed to be elected unless he has received valid votes equivalent to 1% of the total of the number of registered voters in the District, as hereinafter determined.
- V The Commissioners, acting as election officers, shall prepare as of twenty (20) days prior to the annual Election, a list of eligible voters from the official voting list of the Town of Acton as of that time. This list shall remain closed until after the annual meeting of the District. The list shall then be reviewed and revised for all subsequent special meetings, up to the day of the special meeting. These lists shall then be used to determine the right of any person to vote at any election or any meeting of the District.
- VI All candidates elected to offices in the District shall be sworn to the performance of their duties by the Clerk of the District, except in the case of the Clerk, who shall be sworn by any of the Commissioners. The Clerk shall make a record of the facts in the minutes of the meeting.
- VII Elections and Nominations of district officers shall be conducted in accordance with chapters fifty to fifty-six, inclusive, of the General Laws so far as applicable, except as otherwise provided in sections one hundred and fourteen to one hundred and seventeen of Chapter 41 of the General Laws, inclusive, and except as otherwise provided by the district bylaw.

BYLAWS
(as adopted and amended to February, 1985)

- I The annual meeting of the Water Supply District shall be held on the third Wednesday of March of each year for the transaction of the necessary business connected with the District, and election of officers shall be held on the first Monday of April of each year. The time and place of holding such election and vote shall be stated in the warrant for the annual meeting and such election and vote shall be deemed part of the Annual District Meeting.
- II All meetings may be called by a majority of the Board of Water Commissioners, directed to the Clerk, or as specified in Chapter 326 of the Acts of 1912, Section 8.
- III All warrants shall be posted at least fourteen (14) days before the time of the meeting.
- IV The Clerk shall preside at each meeting until a Moderator is chosen.
- V At each annual Election Day there shall be elected by ballot, one Commissioner for a term of three years, a Clerk and a Moderator who shall serve for one year.
- VI If a vacancy should occur for any cause in the office of Clerk, Treasurer, or any other officer of the District except the Board of Water Commissioners, it may be filled for any such unexpired term by the Water Commissioners.
- VII The Board of Commissioners shall annually in the report to the District, give an estimated budget for the ensuing year.
- VIII
 - a) The Moderator shall appoint a Finance Committee to advise the Commissioners. The Committee shall consist of three voters of the District and shall be appointed in the following manner:
 - One member shall be appointed for one year;
 - One member shall be appointed for two years; and
 - One member shall be appointed for a term of three years.Thereafter, each appointment shall be for a term of three years.
 - b) No member of the Finance Committee shall serve any other standing committee of the District or the Town of Acton having to do with expenditure of funds.
 - c) The Finance Committee shall review the budget for the annual meeting and shall make recommendations to the Commissioners on any matters of a financial nature arising out of an annual or special meeting, and shall make recommendations as to the long range fiscal plans of the District.

- IX The Commissioners shall appoint annually a Treasurer-Collector which office shall have all the powers and duties conferred by law upon a collector of taxes and district treasurer.
- X Any person violating any order restricting water use imposed by vote of the Commissioners shall be fined not more than \$200.00 for each offense, which shall inure to the district for such uses as the Commissioners may direct. Fines shall be recovered by indictment or on a complaint before a district court, or by non-criminal disposition in accordance with section Twenty-one D of Chapter 40 of the General Laws. Every day that such violation continues shall constitute a separate offense.
- XI a) A five member Water - Land Management Advisory Committee is hereby established. Two members to be appointed by the Commissioners for a term of three years, two members to be appointed by the Moderator of the District for a term of two years, one member to be appointed by the Selectmen for a term of one year. Thereafter, each appointment shall be for a term of three years.
- b) The Advisory Committee shall review and make recommendations to the Commissioners on matters relating to water and land management policies of the district and shall make recommendations to the Commissioners on any matters relating to agreement authorized under the "Bylaw to Regulate the Removal of Sale of Sand and Gravel from Lands in District Use", and shall undertake such other tasks related to water and land management as the Commissioners deem appropriate.
- XII No person shall turn on or tamper with a water main or hydrant or other device used for water supply or install a by pass around a water meter without first procuring a written permit to do so from the Manager of the Water District. Any person violating said section shall be fined not more than \$200.00 for each offense, which shall inure to the District for such uses as the 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. Every day that such violation continues shall constitute a separate offense. This section shall not curtail the fire department or Water District in the normal course of providing fire protection or water supply.

NEW BY-LAW

"By-Law to Regulate the Removal and Sale of Sand and Gravel from Lands in District Use".

Section One. The purpose of this bylaw is to regulate the removal of sand and gravel on lands owned or leased by the district so as to promote safe and sound economic development, improvement and management of said land; and protect and preserve the purity of the water supply, wells and aquifers.

Section Two. The Commissioners shall fix a reasonable time for a public hearing on any proposal for removal and sale of sand and gravel from land in district use. Notice of the public hearing shall be given at least two weeks prior to the hearing by publication of the time, place and purpose of the hearing in a local newspaper, and by mailing a copy of said notice to the owners of all property within five hundred (500) feet of the property line of the district land as they appear on the most recent applicable tax list. Included in the list of owners shall be abutters, owners of land directly opposite on any public or private street, and abutters to abutters within the five hundred (500) feet aforesaid.

The public hearing shall be held no later than 21 days prior to the business meeting of the district which includes an appropriate warrant article for action by voters of the district. Action by voters of the district on any article permitting the Commissioners to enter into a written contract for removal and/or sale of earth materials from lands of the district shall require a two-thirds vote. At the public hearing the Commissioners shall present evidence of the need for excavation, removal and/or sale of earth materials from district lands; the depth and limits of excavation; a site specific map of wetlands, limits of 100 year flood plain, vegetation, surface waters, topography (before and after), property lines and adjacent land uses; and estimation of high water table on the land.

Section Three. In entering into a written contract not to exceed one year, the Commissioners shall impose conditions and specifications including but not limited to the following:

- A. A detailed plan showing limits and phases of excavation.
- B. Specific and reasonable hours of operation, including truck arrival and departure.
- C. Required stockpiling of topsoil for use in restoration.
- D. Prohibition of excavation within 10 feet of the annual high water table.
- E. Prohibition of removal within 100 feet of property lines and existing public ways.
- F. Limitation of work faces to 10 vertical feet and requirement that all faces shall be broken down to their natural angle of repose at the end of each working day. Any existing non complying faces shall be reduced as fast as safety and practical engineering permit.
- G. Maintenance of natural vegetation on undisturbed land for screening and noise reduction purposes, and provision for dust suppression on the site.
- H. A requirement that restoration be carried on simultaneously with excavation, so that when any three acres operation area has been excavated, at least two acres shall be restored before work commences on the next contiguous three acres, so that at no time will more than four acres be unrestored.
- I. Provisions to grade slopes safely, loam and revegetate all disturbed areas.
- J. Removal of debris, stumps, boulders, etc. from the site and dispose of in an approved location or, in the case of inorganic matter, buried and covered with at least two feet of soil.
- K. A requirement that all retained subsoil and topsoil be spread over the disturbed area and seeded. Trees or shrubs of prescribed species will be planted to provide screening and reduce erosion during the establishment period.
- L. A requirement that final restoration work be completed within 60 days, weather permitting, after completion of excavation operations.

M. A requirement of posting of surety bond, performance and payment bond or other adequate security to insure compliance with terms of the contract.

N. Regular inspection by the Commissioners or their agent at reasonable hours to insure that contract provisions are being adhered to, and provision for halting operations for any violation.

O. Other appropriate conditions, limitations and safeguards as the Commissioners deem necessary for the protection of the public health, safety, convenience and welfare, and for protection and preservation of the purity of the water.

