

WATER COMMISSIONER'S AND SUPERINTENDENT'S
REPORT

To the Residents of the Leicester Water Supply District:

The Commissioners and Superintendent respectfully submit the One Hundred and Twenty Sixth Annual Report for the year ending Dec. 31, 2013.

WATER DEPARTMENT

Water quality coliform samples were taken each month according to the Department of Environmental Protection's Schedule at 5 locations, 124 Pine Street wastewater treatment building, 9 Water Street, 10 Market Street, 180 Paxton Street (the water tanks) and the Mount Pleasant (Route 9) Booster Station. In addition to the 5 routine distribution samples, each well (5) were sampled each month.

A 1 count of coliform bacteria, which is an indicator bacteria, was found in the 9 Water Street sample in April. Required follow-up testing came back clean. A 1 count of coliform bacteria was found in the 124 Pine Street sample in June. Required follow-up testing came back clean. Repeat samples were taken along with additional samples above and below the sample sites resulted in a zero presence and no E coli bacteria. No notification or Public Notice was required.

Due to these repeated coliform samples, the District has begun chlorinating the complete system year round. We maintain a residual at the far reaches of our distribution system between 0.10 and 0.20. DEP would like us to have a minimum residual of 2.0 in our system, however, taste and odor complaints begin to abound when we have disinfected to the 2.0 residual. Chlorine also creates Haloacetic Acids (HAA's) and Trihalomethanes (THMM's) within our distribution system. Balancing these two requirements is very challenging.

The District has been required to perform annual Perchlorate sampling on all of our wells in the District. Perchlorates are substances that have been found in the drinking water supplies that come from explosive powders such as fireworks, gun powders or blasting projects. All of our results were below the MCL's.

Volatile Organic Compound samples which are monitored yearly for petroleum produces which may be introduced to the ground water from leaking gas and oil tanks were taken at the #1, #2, #3, Jim Dandy and

Rawson Street wells during the 2nd quarter. All the samples taken during this period were found to have no detections of VOC's.

Nitrates sample were also taken to insure there was no presence or indication of sewerage from septic systems in the area of the well fields. The wells currently have no issues and sampling will continue annually to monitor these water sources.

Wells #1 and Jim Dandy in Paxton have consistently not shown any Arsenic or Radionuclides during the quarterly sampling and have not had any accidents for the new DEP limits of 10 parts per billion.

Arsenic and Uranium is naturally occurring from the erosion of natural deposits in the rock structures of New England. Sampling at the #2 and #3 wells in Paxton and the #5 well in Leicester continues each quarter for arsenic. The treatment system that was built for #2 and #3 wells in Paxton went on line in October 2008 continues to meet the Arsenic MCL (Maximum Contaminant Limits) established by the EPA Safe Drink Water Standards.

Each of the wells has two vessels (Skid) which allows one of the vessels to be taken off line for cleaning, repair or regeneration of the treatment media without having to take the well off line while maintenance is being performed.

Arsenic removal is accomplished by passing water through an iron-oxide impregnated resin. This Arsenic attaches to this resin. To clean it, removal from the vessels is done by vacuuming the resin into large totes. These 35 cubic foot totes are transported to a facility in Philadelphia, PA that gives the resin an acid bath to re-generate it. Normally, we will lose approximately 10% of material in the re-generation process. The cost of replacement material is in excess of \$415 per cubic foot. Each vessel (2 in each train), hold approximately 30 cubic feet of material.

Future capital projects for the water system include the re-establishment of the Whittemore Street Well with an Arsenic and uranium treatment system; a centralized Water treatment facility at the Water towers; upgrading of the Pierce Spring cistern in Paxton; and, replacement of old water lines.

The Hersey radio read meters have continued to perform poorly. Typical failure rates of meters is less than 1% per year. We have continually had failure rates of between 4 to 6 percent. We have begun the process of looking in to a new meter system. The meters are read by a lap top computer minimizing the reading process and ensuring the readings are not visually mis-read or entered incorrectly.

In July 2013, the Fourteenth Consumer Confidence reports were mailed to the District which included information for the previous year 2012

Each year the Consumer Confidence reports are mailed to the residents of the District by June 30 and include the information about water quality of each source, information about progress the District is making in protecting the sources and pertinent information about treatment along with general district business.

The District employs three fully licensed water treatment and distribution personnel.

We continue to collaborate with the Town of Leicester on water issues as they relate to economic development opportunities.

SEWER DEPARTMENT

In September 2010, the LWSD was issued a new, 5-year renewal of their National Pollution Discharge Elimination System (NPDES) permit. Some of the major changes in this permit include a decrease in our discharge limits for Total Phosphorous, Total Recoverable Copper, Aluminum and Ammonia-Nitrogen. We must also report quarterly for Total Kjeldahl Nitrogen, Total Nitrate and Total Nitrite. In our previous permit we were required to perform quarterly toxicity testing on our effluent. This has been reduced to semi-annual testing.

The monthly test results of the daily laboratory analysis have been forwarded to the Department of Environmental Protection (DEP) and the Environmental Protection Agency (EPA) as required. In addition quarterly sampling was conducted to determine the Toxicological for Acute and Chronic species survival of the treated effluent from the WWTP. There were no exceptions during 2013.

The District currently operates eight (8) Wastewater Pump Stations (WWPS) for the LWSD and three (3) WWPS Pump Stations for the Hillcrest Sewer District. All together at the end of 2013 the District operations include 11 Waste Water Pump Stations, 5 Drinking Water Pump Stations and 3 Drinking Water Booster Stations in addition to the WWTP located on Pine Street.

The District is required to report annually on Infiltration and Inflow (I/I) within our collection system. Areas have been identified for upgrades to include replacement of old clay pipes; lining of clay pipes; replacement of deficient manholes; composite lining of deficient manholes; and, installation of water-tight manhole covers.

The Board of Commissioners set aside funds to look at the overall health of the wastewater treatment plant. This study was completed in November 2011 and will be used to upgrade the plant going forward. Regulatory requirements, fatigue and breakdowns at the plant predicated this study and future upgrades and maintenance to the plant.

The District moved forward on the design of a new headworks facility. The headworks screens out rags and paper through a smaller (3/8") screen. Currently the headworks have a (3/4") screen. A solids washer is proposed to wash the rags and paper materials to remove organic matter to be recycled back as food into the wastewater process. Everything else is compacted down to be placed into the solid waste container. A new grit removal system will remove inorganic matter. Currently, all of these materials are being passed through the whole plant. Construction of the new headworks will allow us to process wastewater more efficiently and slow down the wear and tear on downstream components.

Future projects include the installation of additional aeration tanks; replacement of mechanical aeration equipment with more energy efficient bubble aeration; replacement and upgrading of obsolete electrical components; sludge pump replacement; emergency generation upgrades; upgrading of sludge de-watering systems; and, upgrade of the chlorine contact chamber. These upgrades will allow us to assist the Town of Leicester in economic development areas.

The Commissioners once again caution the residence of the District about sump pumps, roof drains, removing cleanout covers to allow surface water to enter the sanitary sewer or any other means of allowing rain or surface water to be discharged to the sanitary sewer system.

District Rules and Regulations read as follows:

Article 4 Section 6 Specific Prohibitions:

The following discharges are specifically prohibited:

- A. Groundwater, storm water and surface waters, including but not limited to, roof and surface runoff, and subsurface drainage.
- B. No water from pools, reservoirs, or cellars shall be drained into any sanitary sewer either by gravity or pump.

Should your residence be found in violation through random inspections and smoke testing, the offender will be given 30 days to correct the violation and will be fined or service discontinued according to the penalty section of the Rules and Regulations.

Copies of the Rules and Regulations are available at the office or can be found on the Districts Web Site at LWSD.Net along with Notices, Applications and other District information.

The District employs three fully licensed wastewater operators.

We continue to collaborate with the Town of Leicester on wastewater issues as they relate to economic development opportunities.

**Minutes of the 126th Annual Meeting
Leicester Water Supply District
April 30, 2013**

In accordance with the warrant legally served and posted, the legal voters of the Leicester Water Supply District met in the Leicester Water Supply District Meeting Hall, 124 Pine Street, in the Town of Leicester on Tuesday April 30, 2013 at seven in the evening (7:00 pm), to act on the following Articles, viz:

The meeting was called to order at 7:00 p.m. by the District Moderator Frank W. Lyon after a quorum was declared with 15 signed in voting residents.

A Motion was made by the Clerk to dispense with the reading of the Articles as everyone present had a copy of the Warrant. A second was made and voted in the affirmative. None opposed.

ARTICLE 1 A motion to be made to dispense with the reading of the Officers Reports as copies of the 125th Annual Report was present and that the reports of the District Officers be accepted with the exception of any typographical errors. A second was made and voted. None opposed,

ARTICLE 2 Robert F. Wilson nominated Frank W. Lyon for Water Commissioner for a term of three years. Motion was seconded by J. Donald Lennerton Jr. None opposed

ARTICLE 3 J. Donald Lennerton Jr. made a motion that the District vote to pay the District Officers as follows for the fiscal year beginning July 1, 2013.

Commissioner Chairman	\$2,029.00
2 other Commissioners	\$3,520.00
Moderator	\$ 137.50
Clerk	\$ 302.50
TOTAL	\$5,989.00

A second was made and voted.

ARTICLE 4 Robert F. Wilson made the motion that the District vote to raise and appropriate the following sums of money to defray the expenses of the District for the fiscal year beginning July 1, 2013.

Water Maintenance.....Raise & Appropriate.....	\$375,470.77
Sewer Maintenance.....Raise & Appropriate.....	\$437,920.77
Transfer from Sewer Development.....	\$ 29,631.15
Transfer from Water & Sewer Rate Relief.....	\$ 18,000.00
TOTAL.....	\$861,022.69

To transfer from the
Rawson, Holcomb, Utica and Breezy Green Lateral Account

To Maturing Debt (Principal).....	\$13,750.00
To Interest on Debt (Interest).....	\$ 2,750.00
TOTAL.....	\$16,500.00

To transfer from the
Waite Street, Massasoit, Rural, Chapel Sewer Lateral Account

To Maturing Debt (Principal)	\$30,834.00
To Interest on Debt (Interest).....	\$28,863.10
TOTAL.....	\$57,697.10

To transfer from the
Route 9 West Sewer Lateral Account

To Maturing Debt (Principal).....	\$ 84,678.00
To Interest on Debt (Interest).....	\$ 69,858.90
TOTAL.....	\$154,536.90

The motion was seconded and voted: None opposed

ARTICLE 5 J. Donald Lennerton Jr. made the motion that the District 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, 2013, in accordance with Mass. Gen. Laws, c. 44, sec 4 and Acts in amendment thereon, and including in addition thereto, Chapter 849 of the Acts of 1969, as amended, by issuing a note or notes payable within one year and renew any note or notes as may be given for a period of less than one year.

The motion was seconded and voted unanimously.

ARTICLE 6 Robert Wilson made a motion to transfer \$50,000.00 from Water and Sewer Rate Relief Fund and \$20,000.00 from Water Development Fund to the 2013 Operating Budget to defray the expenses of the District for the fiscal year beginning July 1, 2012.

The motion was seconded and voted unanimously.

ARTICLE 7 J. Donald Lennerton Jr. made the motion that the District vote to pass over this article.

The motion was seconded and voted: None opposed

ARTICLE 8 Robert Wilson made a motion that the District vote to transfer the sum of Two Hundred Twelve Thousand Nine hundred sixty-nine Dollars and sixty-six cents (\$212,969.66) for the Water Treatment #1 project and Five Hundred Ten Thousand, Two hundred Twelve dollars and fifty cents (\$510,212.50) for Water Treatment #2 from the Water Development Fund.

The motion was seconded and voted: None opposed

ARTICLE 9 J. Donald Lennerton Jr. made the motion that the District vote to pass over this article.

The motion was seconded and voted: None opposed

ARTICLE 10 Robert Wilson made a motion that the District vote to extend the District bounds to include Parcel ID 26A B18 0, Book 34797, Page 40; Parcel ID 26A B22 0, Book 21556, page 352; and Parcel ID 26A B18,2 0, Book 11018, page 329. (numbers #2,3+4 Mount Pleasant Ave.)

The motion was seconded and voted unanimously.

The meeting was adjourned at 7:35 p.m. after a motion and a second was made. 15 legal votes attended the meeting

The motion was seconded and voted: None opposed:

Respectfully submitted,
J. Donald Lennerton, Jr.
District Clerk
April 30, 2013

TREASURER'S REPORT
JULY 1, 2012 TO JUNE 30, 2013

RECEIPTS	2013
WATER REVENUE	\$322,795.08
SEWER REVENUE	\$372,382.26
INTEREST INCOME BANK ACCOUNTS	\$9,944.86
INTEREST WAITE LATERAL	\$1,132.51
INTEREST BREEZY/RAWSON LATERAL	\$80.12
INTEREST RT 9 LATERAL	\$2,655.93
OTHER CHARGES	\$52,583.11
WATER CONNECTION FEES	\$93,590.00
SEWER CONNECTION FEES	\$188,369.48
WATER ASSESSMENTS	\$13,369.74
SEWER ASSESSMENTS	\$27,137.00
BETTERMENT COLLECTIONS	\$174,065.13
BETTERMENT INTEREST	\$71,174.22
NATIONAL GRID RENTAL	\$6,480.00
TOTAL RECEIPTS	\$1,330,759.44
DISBURSEMENTS	
WATER MAINTENANCE	\$313,034.58
SEWER MAINTENANCE	\$471,473.45
MATURING DEBT	\$847,240.49
INTEREST ON DEBT	\$138,237.38
WORCESTER COUNTY RETIREMENT	\$35,378.00
ART #9 4-27-10 TREATMT PLANT UPGRADES & ENG	\$607.95
ART #7 4-26-11 WATER TANK PAINTING	\$0.00
ART #7 4-26-11 WHITTEMORE ST WELL	\$37,859.00
ART #8 4-26-11 FRANKLIN STREET SEWER LINE	\$144,936.00
ART #6 4-24-12 FRANKLIN STREET SEWER LINE	\$6,654.15
ART #7 4-24-12 MISC. ITEMS	\$93,674.74
TOTAL DISBURSEMENTS	\$2,089,095.74

ANALYSIS OF CASH

WATER DEVELOPMENT	\$230,569.66
SEWER DEVELOPMENT	\$1,958,156.74
WATER & SEWER RATE RELIEF	\$423,228.71
SEWER STABILIZATION ACCOUNT	\$107,967.40
CAPITAL EQUIPMENT ACCOUNT	\$0.00
RAWSON ST. LATERAL	\$17,473.25
RT 9 W. SEWER LATERAL	\$991,184.45
WAITE/CHAPEL LATERAL	\$351,349.26
DEPOSIT IN TRANSIT	\$0.00
ART #9 4-27-10 TREATMT PLANT UPGRADES & ENG	\$57.81
ART #7 4-26-11 WATER TANK PAINTING	\$18,740.50
ART #7 4-26-11 WHITTEMORE ST WELL	\$13,728.50
ART #8 4-26-11 FRANKLIN STREET SEWER LINE	\$0.00
ART #8 4-26-11 FRANKLIN STREET SEWER LINE	\$117,790.98
ART #7 4-24-12 MISC. ITEMS	\$142,825.26
TOTAL	\$4,373,072.52
SURPLUS REVENUE	\$1,251,629.00
TOTAL	\$5,624,701.52

GENERAL DEBT

RAWSON/BREEZY LATERAL	\$41,250.00
WAITE SEWER LATERAL	\$493,324.00
RT 9 W. SEWER LATERAL	\$1,608,871.00
C.W.M.P. SERIAL ISSUE	\$249,732.38
TOTAL	\$2,393,177.38

RESPECTFULLY SUBMITTED
DEBRA A. WILSON
DISTRICT TREASURER

*Leicester Water Supply District
Incorporated 1988
Chapter 171 Acts 1888 Water
An Act to supply the Centre Village of Leicester with Water*

*OFFICERS 2013
Board of Water Commissioner's
Robert F. Wilson Chairman – 2011-2014
J. Donald Lennerton, Jr. 2012-2015
Frank W. Lyon – 2013-2016*

*District Treasurer
Debra Wilson 2013-2016*

*District Clerk
J. Donald Lennerton 2013-2016*

*District Moderator
Frank W. Lyon*

*Certified Public Accounting Auditors
Borgatti Harrison & Co.*

*Superintendent
Roger A. Hammond*

Annual Meetings - Last Tuesday in April.

Commissioners Meetings
Third Thursday of the Month - 9:00 AM at the Office 124 Pine Street unless otherwise posted.

Billing Periods – Quarterly

Office Hours Monday through Thursday 9:30 AM to 2:00 PM
Friday 9:30 AM to 1:00 PM – excluding Holidays

Office Telephone #:508 892-8484
Emergencies 508 892-8484
Police Dept. 508 892-7010

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