

Mount Laurel Township Municipal Utilities Authority

Quarterly Report



2nd Quarter 2010 (April to June)

Authority Members

Chairman	Carl V. Buck, III
Vice-Chairman	Irwin Edelson
Secretary	Fred Braun
Member	Elwood Knight
Member	James Misselwitz
Executive Director	Pamela J. Carolan, P.E.

Total Number of Customer Accounts: 17,856

Mission Statement:

“Provide safe, dependable and affordable water and wastewater services to our customers in an environmentally conscious manner while remaining committed to our community’s needs.”

Sewer Department

System Summary:

The Mount Laurel MUA wastewater service area runs congruent with the Township boundary. Approximately 95% of residential properties and 98% of commercial properties are currently connected to the Mount Laurel Township MUA sanitary sewer system. The Mount Laurel Township MUA treats all sewage generated within the Township at the Hartford Road WPCF with the exception of the southwestern area (Laurelwood, Countryside, and Roland/Fellowship industrial area); in these areas, sewage is collected by the Mount Laurel Township MUA and pumped to the Camden County MUA for treatment.

Wastewater Treatment Plant:

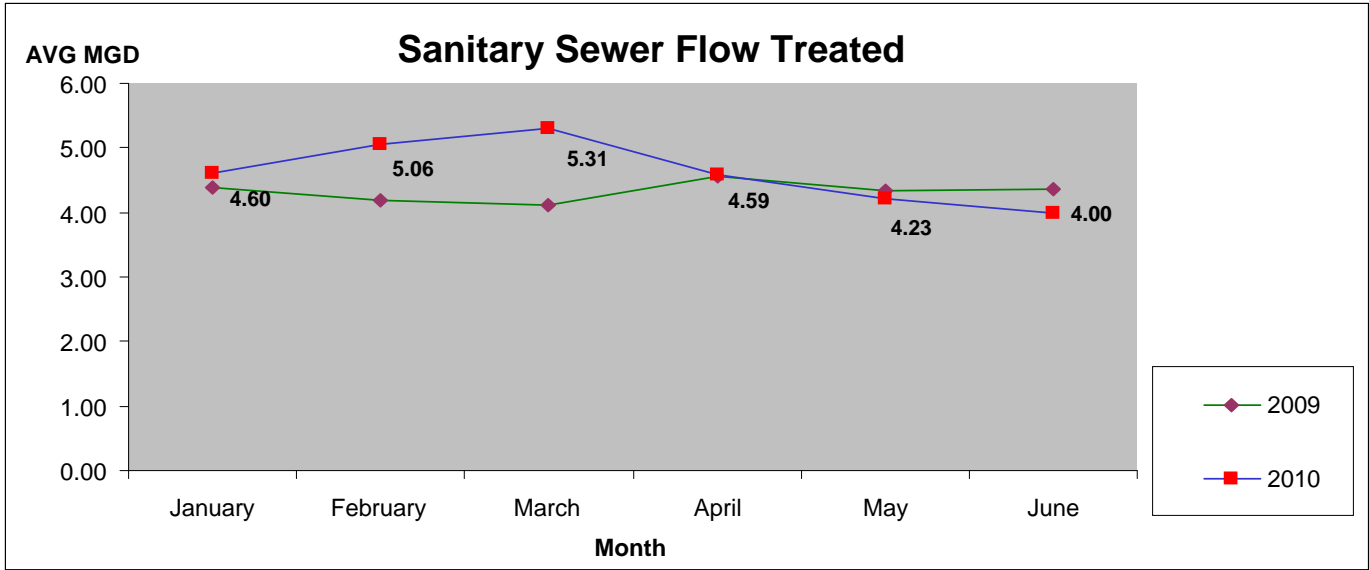
Hartford Road Water Pollution Control Facility
6.0 Million Gallons Per Day (MGD) capacity
Advanced secondary treatment using extended aeration and UV disinfection, sludge dewatered on-site with bio-solid disposal at the Burlington County Composting Facility

Collection System:

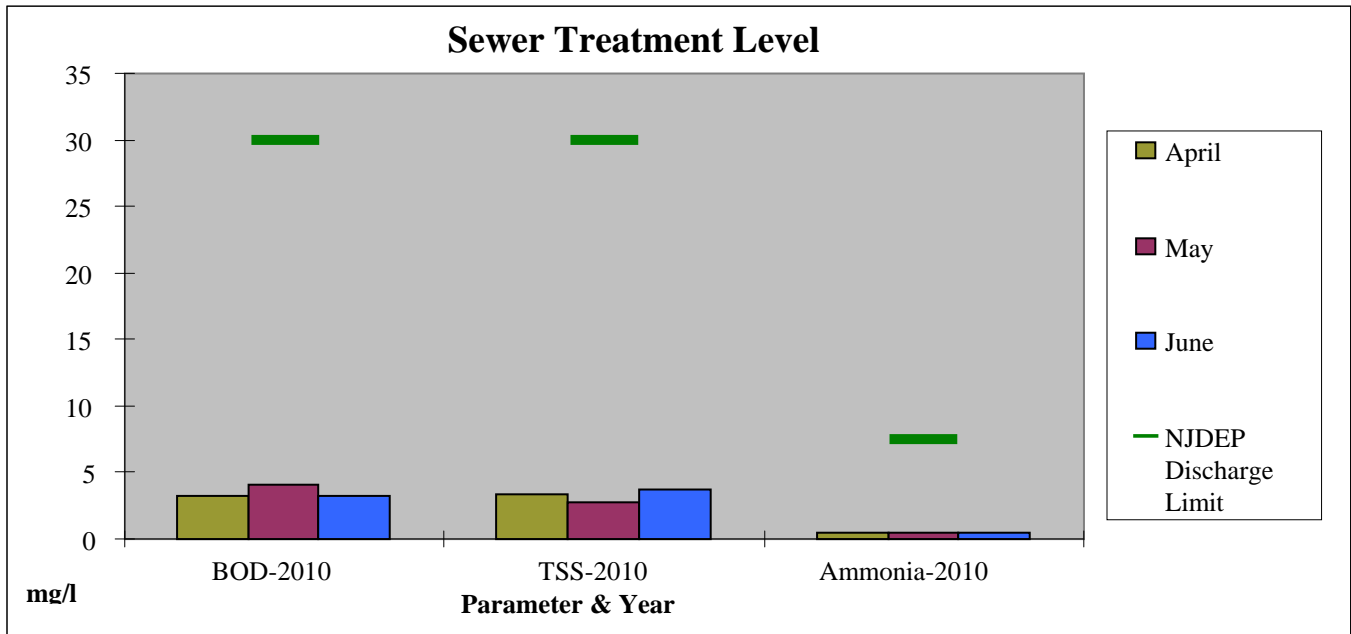
39 pump stations
3824 manholes
32 miles of force main
148 miles of gravity main

Sewer Operations

Treatment Plant:



Total Treated in Quarter = 388.83 Million Gallons (MG)
 = 4.27 Million Gallons per Day (MGD)



Our wastewater treatment facility consistently produces an effluent discharge, which is substantially better than required NJDEP limitations. Although we routinely sample for dozens of parameters (hundreds at certain times of year) the three chosen parameters of BOD₅, TSS, Ammonia Nitrogen are standards for the industry deemed representative of general treatment plant operations.

Reclaimed Water for Beneficial Reuse:

Due to the high quality effluent from our wastewater treatment plant operations, in 2003 the MUA obtained a permit from the NJDEP for reuse of wastewater effluent for various applications within Mount Laurel. The MUA currently uses the renewed water (treated wastewater treatment plant effluent) for the wastewater treatment plant site utility water system, pumping equipment seal water, process equipment wash down, sewer main cleaning, street sweeping, wastewater treatment plant irrigation, fire protection for the wastewater treatment plant, fire protection for the Mount Laurel Township leaf composting area, and vehicle washing. Use of renewed water reduces the quantity of potable (drinking) water required at the wastewater treatment plant and other MUA operations.

Sanitary Sewer Collection System:

Pumping Stations:

- 2050 operation and maintenance checks were performed
- 150 in-house repairs performed
- 731 preventative maintenance repairs
- 47 sewer alarms checked
- 14 manholes rehabilitated
- 21 of 39 wetwells cleaned

Televising & Cleaning of Sewer Mains:

The MUA owns and operates a sewer camera truck for internally televising sewer mains. This equipment enables us to detect and monitor corrosion, leaks, roots, and grease buildup, so that corrective action can occur before emergencies arise. The MUA can then use its sewer jetting equipment to clean sewer mains of grease buildup and silt. All video documentation is cataloged and is also used in evaluating the timing for repairs and capital replacement projects of mains.

- 19,370 feet of mains cleaned this quarter
- 13,131 feet of mains televised this quarter

Other Sewer Related Items:

Emergency Repairs at Holiday Village East Pumping Station:

On May 1st, the dry well of the HVE PS was flooded due to a break of pump seal water filter equipment. Many components of the underground facility were severely damaged. Pump out of the raw sewage took almost a week. Clean up and repair of the station is underway and is expected to be finished in July. Repairs have been complicated by damage to the elevator system, which is now locked in the down position blocking extrication of the pump motors. The loss has been reported to our insurance carrier. Final cost is estimated to be over \$50,000. In the meantime, all sewage is being pumped into the existing forcemain with a portable emergency diesel pump.

Responded to and resolved sewer service calls from 47 customers during the quarter

3 Vent Cap Broken/Missing 1 Locate Sewer Vent 2 Broken/Noisy Manhole Lid

1 Manhole Overflowing

- Sheffield Court - MUA jetted the line, broke the blockage. Contacted DEP of the spill

3 Bad Odor in Home/Building/Area

- MUA personnel cleaned and televised lines, added deodorant blocks at manholes

14 Vent Overflowing

- MUA personnel plugged vents and broke blockages in the customers' lines

19 Sewer Laterals Backed Up/"Leaking"

- MUA personnel checked our facilities to confirm proper operation of our system. In all cases, backups were determined to be within the property owner's lateral. We performed courtesy plunging of vents where applicable. The most common causes of clogged laterals are root formation and grease buildup. Owners advised to contact plumbers to ameliorate.

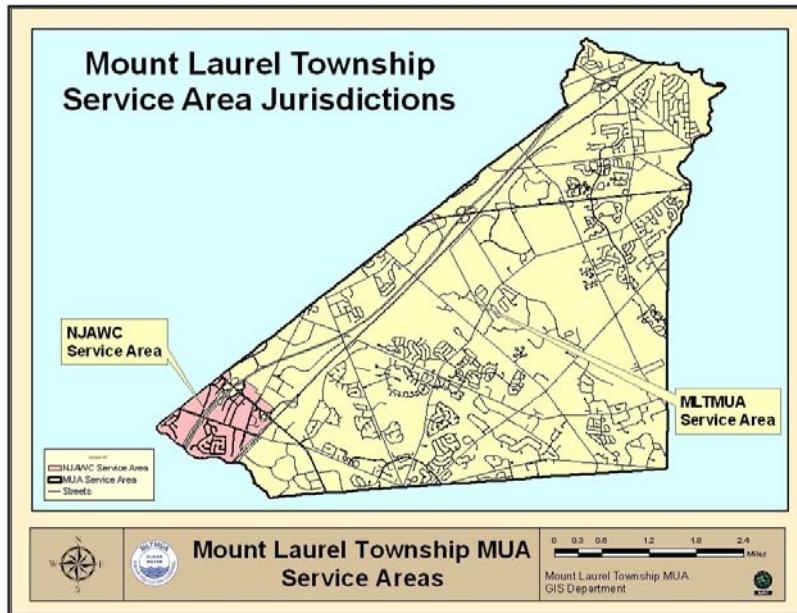
4 Miscellaneous Field Service Calls

- Fellowship Road In Parking Lot of Greyhound Lines-rain water ponding, waterproof dish installed in manhole
- Brentwood Terrace-sewage back up due to lateral damage during public works road work, MUA was able to break blockage to restore service. Public works notified of repairs needed.
- Williamsburg Way-Received call leaking sewer pipe. MUA personnel found illegal connection of AC condensate line. Homeowner advised to re-route to outdoors.
- Saint David Drive-sewer vent damage by another utility installing cable. Referred to other utility.

Water Department

System Summary:

The Mount Laurel Township MUA services the majority of Mount Laurel for water service with the exception of the southwest NJ American Water Company (NJAWC) franchise area. Water supply within the Mount Laurel service area comes from several sources: The Potomac-Raritan-Magothy aquifer system, the Kirkwood-Cohansey aquifer, and the Delaware River. Previous annual water demand ranged between 1400 millions gallons per year (MGY) and 1900 MGY; however in 2009 actual use dropped to a low of 1362 MG. The MUA supplied this water from its own wells (allocation limited to 717 MGY by Critical Water Supply Area # 2 Legislation) and via water purchase agreements with the NJAWC and Willingboro MUA (WMUA). The MUA fully utilized its ground water allocation, to satisfy 45% of total customer demand. The remaining 55%, $\frac{3}{4}$ of a billion gallons of water, was purchased from NJAWC & WMUA to make up the allocation shortfall. The MUA continues to pursue alternative supplies of water in order to meet the current and increasing demands of the community.



Water Treatment Plants

Elbo Lane Groundwater Treatment Plant (Wells 3, 4 & 6, with capability of well 7 ASR)

- This facility treats our native groundwater (from the lower Potomac-Raritan-Magothy aquifer) by removing naturally occurring minerals such as iron and manganese. In addition, we adjust pH, water hardness, disinfect and add fluoride. Many area water providers do not provide treatment other than required disinfection, which certainly affects operating expenses and probably water rates.
- Peak treatment capacity of 5.3 Million Gallons per Day (MGD) for summer months. Due to NJDEP allocation withdrawal limitations, actual operational level of 0 – 2.0 MGD during remainder of year
- The MUA has been waiting for NJDEP to issue an amended water allocation permit 3 years. However, NJAWC has requested that NJDEP hold a public hearing regarding our request, which has stalled the permit process within NJDEP. The amended permit will allow some increased pumping during the high use summer months, thereby reducing summer purchases at NJAWC peak billing rates.

New Ground Water Treatment Rule:

- The new rules became effective on 12/01/09. The MUA sent our 4-log compliance application and certification to NJDEP for review and approval in October 2009. We received 4 log certification for the Elbo Lane WTP and the Well # 7 Aquifer Storage & Recovery Facility. We avoided an estimated \$10,000 in consulting engineering expense by doing this work in house. The Authority has coordinated all contact requirements of the groundwater treatment rule with NJAWC, Willingboro MUA and Evesham MUA as required due to the fact that we are all interconnected water supply systems.

Aquifer Storage and Recovery Well (Well # 7)

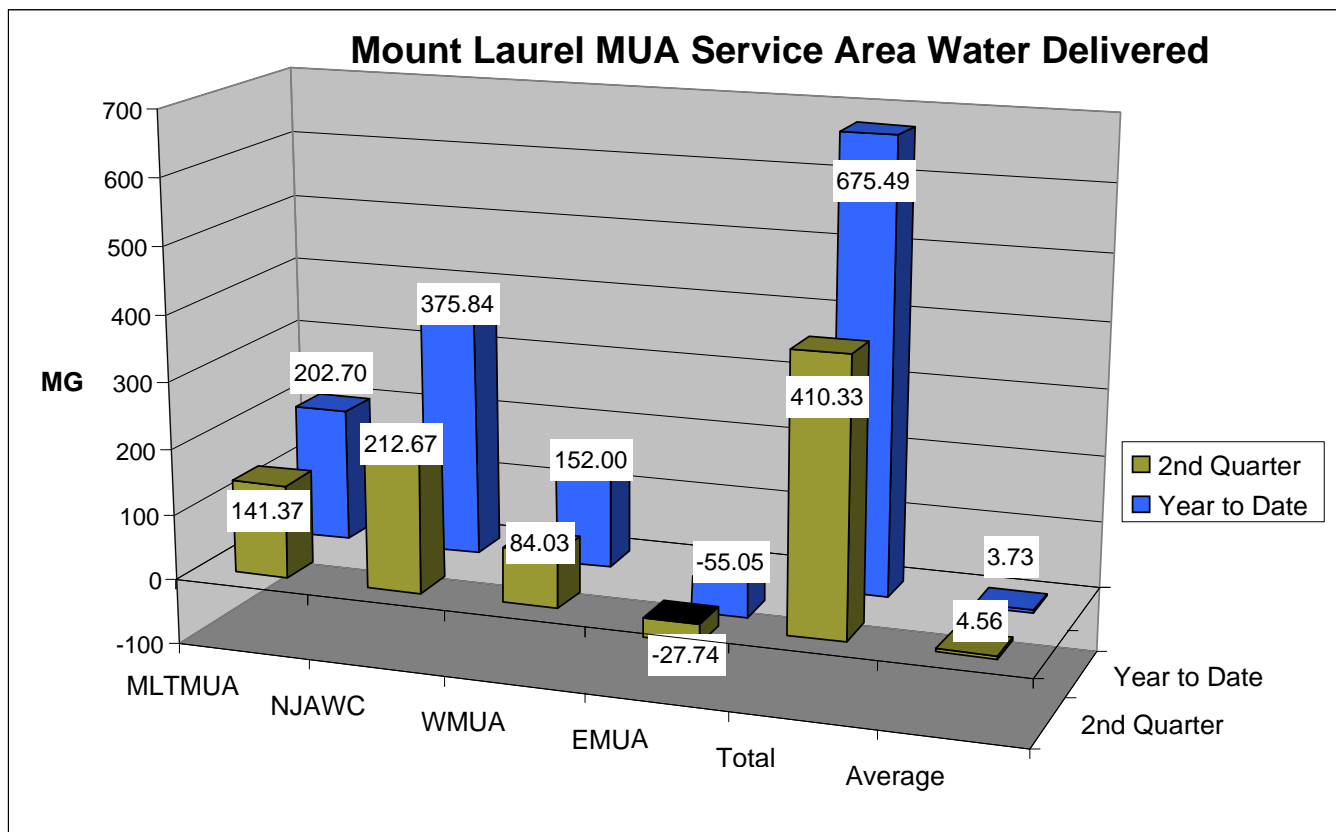
- This facility augments water supply sources in the high summer months. Water is pumped into the well in the winter when demand is low and supply is plentiful, and then withdrawn during times of peak demand.
- Approximately 200 MGY total storage capacity, 1.3 MGD recharge, 3 MGD recovery capacity

Distribution System

- 2 elevated water storage tanks; capacity of 500,000 gallons and 1 million gallons
- 2 ground level water storage tanks; each with a capacity of 1 million gallons
- 197 miles of water main
- 1529 fire hydrants
- 2858 water valves
- 5 bulk interconnections; Willingboro MUA, Evesham MUA, NJ American Water (3)
- 8 stand-by interconnections; Evesham MUA (4), Moorestown Township (2), Maple Shade Township (1), NJ American Water (1)

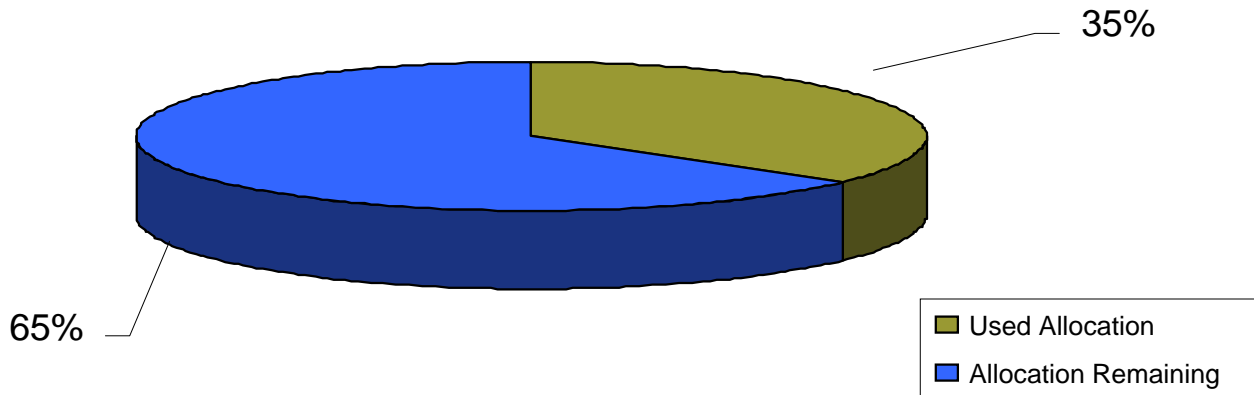
Customers are reminded that ownership and maintenance of the service lateral from the main to the premise is the responsibility of the property owner.

Water Operations



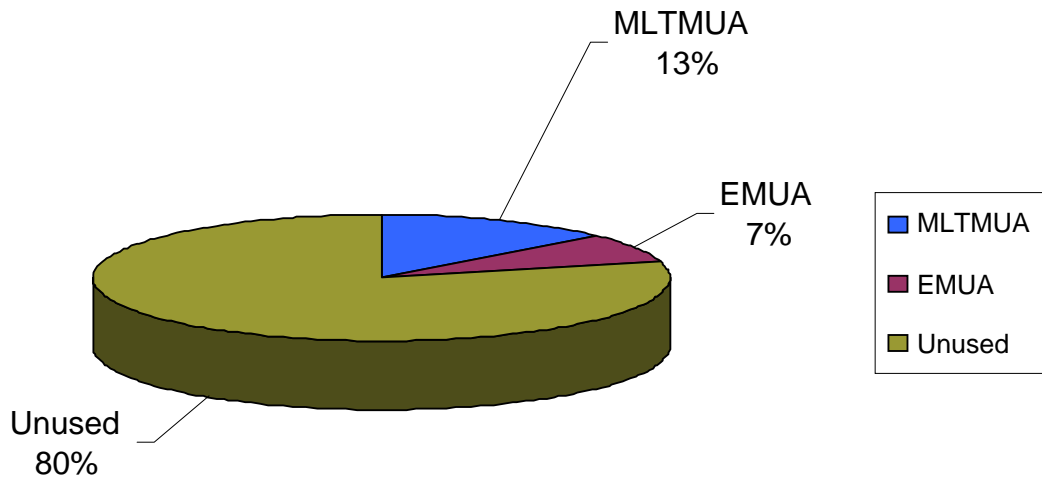
The total water supplied to MLTMUA customers during the quarter was 410.33 **MG**. The average daily use for the quarter was 4.56 **MGD**. Historical Daily Peak water usage by Mount Laurel MUA customers occurred on July 23, 2001 when a total of 9.380 **MGD** was utilized. The peak monthly use for Mount Laurel customers was 187.886 **MGM**, which occurred this quarter in June 2010. Mount Laurel MUA demand (which includes water passed to EMUA) was 10.07 **MGD** and occurred on both July 17, 1999 and July 23, 2001.

MLTMUA Well Allocation for 2010



The MUA reserves its own well allocation for peak months and utilizes NJAWC during non-peak months when the purchase expense is least costly. This must be done to meet operational demands as well as for cost considerations.

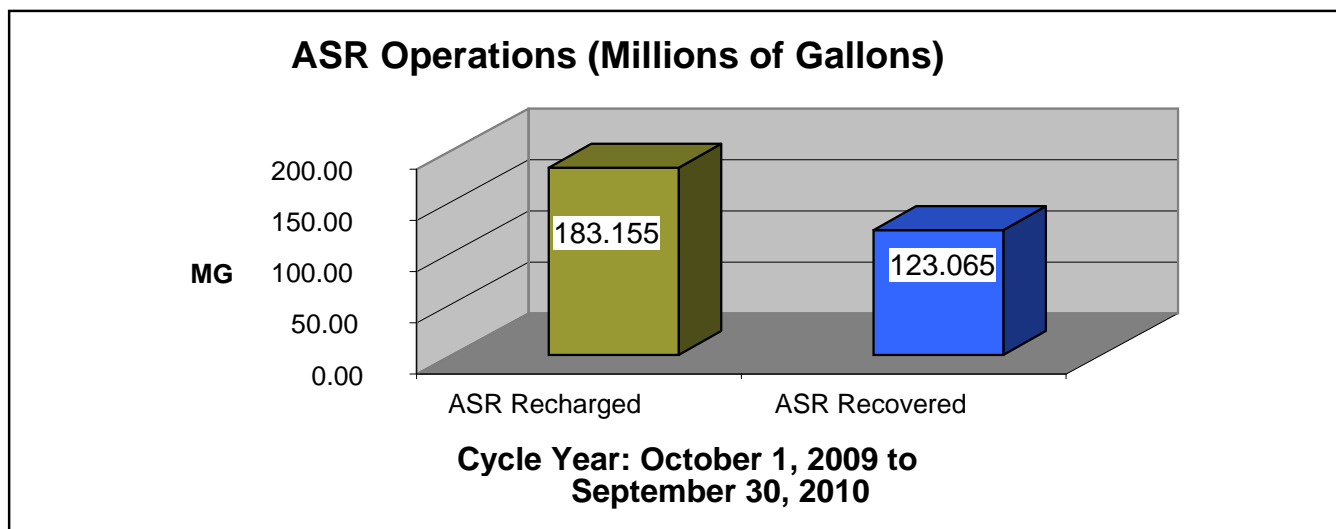
WMUA Allocated Water Use for 2010



- Assumed Total Gross Available from WMUA = 730 MG

ASR Operations

In 2004, production Well # 7 was converted to an Aquifer Storage and Recovery Well (ASR). Approximately 200 Million Gallons (MG) of system potable water can be pumped into the well during the winter season (October-April), when the purchase of water from New Jersey American Water Company (NJAWC) is the least expensive. Between May and September, the entire recharge quantity is withdrawn, conditioned and supplied to the water distribution system to supplement supplies during peak use time.



Last cycle year (2008-2009), we experienced mechanical problems with the variable frequency drive. Our electrical department made temporary repairs in order to keep the well operational at a reduced capacity. Permanent repair is well underway, with a total estimated cost of \$120,000 and a completion in late 2010. Due to the reduced capacity of the well, we were unable to withdraw all stored water from the 2008-2009 cycle (109 MG worth \$310,000). We requested and NJDEP approved deferral to use that stored water in the following year; it must be used by September 30, 2010 or permanently lost. An additional 183 MG was recharged this year, plus 109 MG carried from last year for a total of 292.741 MG. We have recovered 123.065 MG so far this cycle year.

Distribution System: (This Quarter)

Work Performed:

- 18 System breaks / Service leaks repaired / Valve repairs
- 24 Curb boxes located / repaired (Part of FY2010 Meter Change Out Program)
- 5 Street boxes repaired
- 231 Meter change outs (FY2010 Meter Change Out Program)
- 98 Meters/ Touch Pads/ Registers repaired / replaced
- 6 New Meter Connections
- 201 Shut-offs (For Non-Payment)
- 10 Hydrants painted, repaired or replaced (Preventive Maintenance)
- 2 Flow Test - Hilton Garden Inn & Roger Walk Development
- 15 Blow off and fire hydrants flushed
- 1 Water ticket issued for watering violation

Water System Breaks / Repairs Occurred:

Repaired by MUA Crew

Pipes (Crack)

York Rd.

Valve Repair

Cornwallis Dr. /York Rd.
Country Lane & Meadow Drive

Bolts & Plug Replaced

Bentley Drive

Replace Bolts

Meadow Dr.

Pipes (Hole)

Buckingham Way
(2) Meadow Dr.
Northlake Dr. & Eddystone Way

Hydrants & Blow Offs Repaired & Replaced: (non-emergency)

- Repaired Hydrant No. E20-6 Lindale Rd. – Repaired Valve
- Repaired Hydrant No. G10-15 Behind Shoprite Union Mill Rd
- Replaced Hydrant No. E12-8 Chapel Hill Rd. – Hit by Twp plow truck

The MUA saved approximately **\$16,567.00** on repairs for the 2nd Quarter 2010 by performing work previously contracted.

Repaired by Outside Contractor:

Pipe (Hole)

Buckingham Way (2)

Yorktown Road

Wharton Rd & Stokes Rd (3)

Hydrant Replaced:

- Hooten Rd.& Michaelson Dr. C10-02 - Hit by a car replaced hydrant (Reimbursement from Insurance Company)

Watermain Replacement:

- Union Mill Road next to our Union Mill Farms PS – Installed 70’ of replacement 12” DIP under the storm drain pipes.

Service Leaks on Private Lines:

All of the following repairs were initiated by the MUA either as potential main breaks or in the name of public safety. All costs were bourne by the owners of these facilities:

- 508 Meadow Court
- Union Mill Rd. & Elbo Lane next to Victoria’s Nails

Other Water Related Items:

The MUA responded to 208 water service calls of the following types:

- | | | |
|---|-------------------------------------|------------------------------|
| 10 meter leaking/broken | 8 irrigation line leaking | 3 ground water |
| 3 water leak inside home/building | 4 service leaks | 9 low/high water pressure |
| 7 cloudy / rusty water | 4 valve lid missing/loose/broken | 18 bad odor / taste in water |
| 3 Street Valve Leaking | 4 locate curb stop box for customer | 2 service leak at the CSB |
| 11 emergency shut off for repairs | 2 turned water for customer | 4 particles In Water |
| 1 service line damaged by electric contractor | | |
| 91 turn on water (off for non payment) | | |
| 3 curb stop box miscellaneous (repair needed) | | |
| 9 no Water-properties were shut-off at the curb for various reasons | | |

11 Potential Water Main Breaks

- | | |
|----------------------------------|--|
| (3) Buckingham Way | York Road – Hit by Contractor |
| Wharton Road | Wharton Road & Stokes Road |
| Union Mill Road | York Road |
| Meadow Drive | Union Mill Road & Elbo Lane behind shopping center |
| North Lake Drive & Eddystone Way | |

- The MUA’s 2009 Consumer Confidence Report (water quality data) was mailed to all Residential & Commercial Properties in Mount Laurel

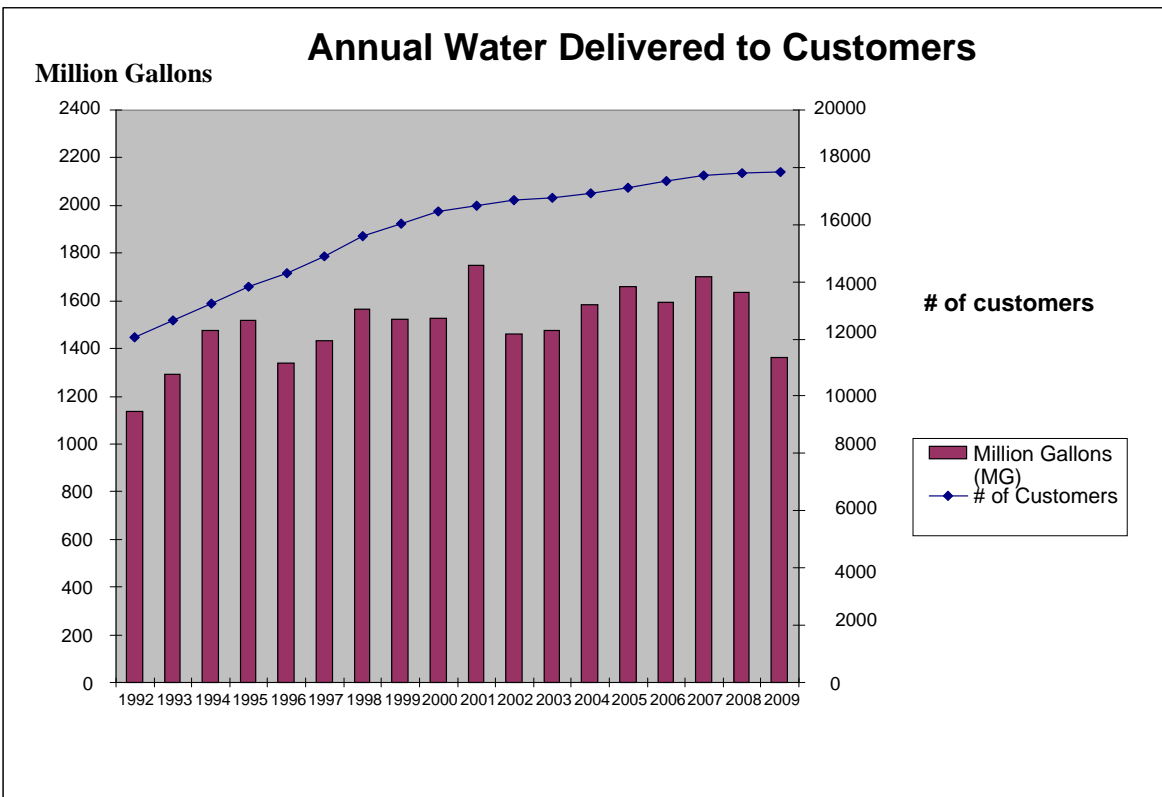
Water Quality in the Mount Laurel MUA Water System:

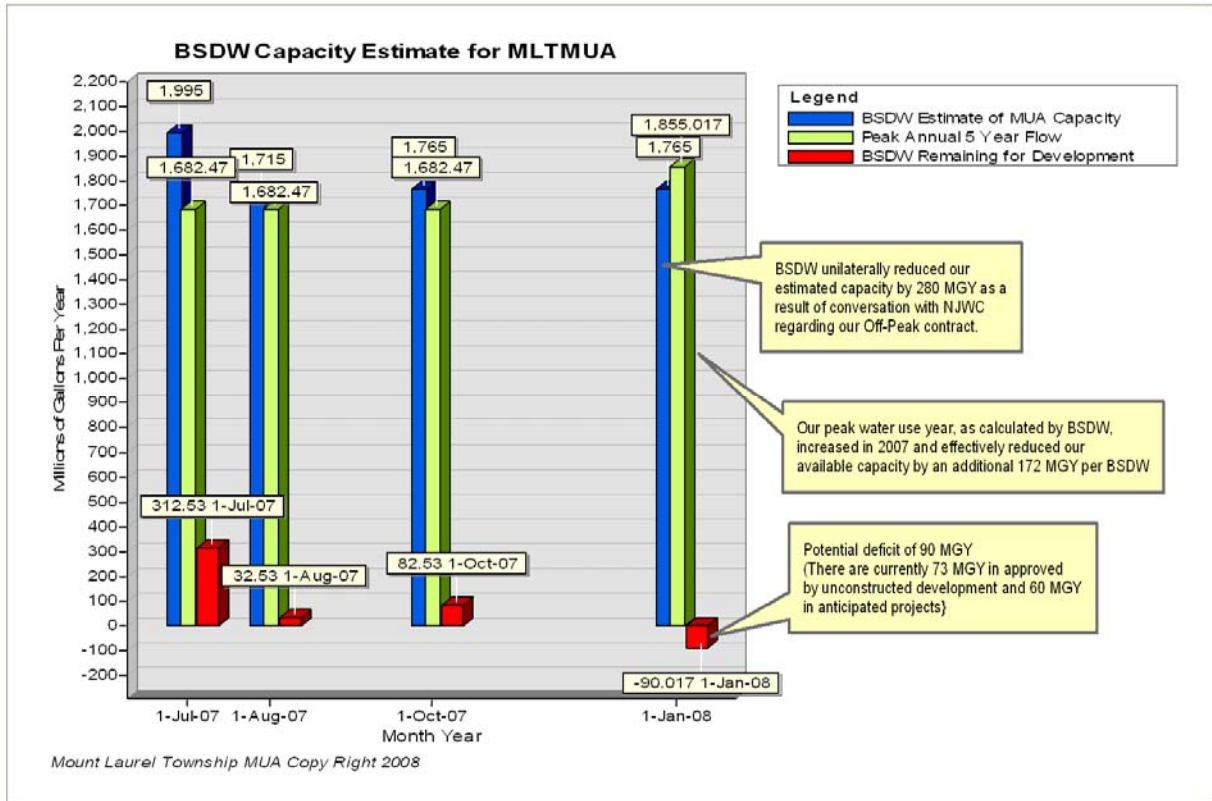
The three distinct categories of water quality that our customers bring to our attention are taste and odor, discoloration, staining, and particles in the water. We find most problems occur locally and the causes accredited to a handful of factors, which include water main breaks, hydrant use (legal and illegal), system maintenance work, and occasionally changes in water use. The remainder of the calls are further identified within the customer’s premise such as: hot water tanks (need flushing or have disintegrating dip tubes-a manufacturing defect from 1993-1996), and undersized/mis-installed point of use filtration systems.

We test the water in Mount Laurel year round, which includes daily operational sampling through compliance monitoring dictated by both state and federal regulations. In all cases, the water is consistently within or exceeds regulated parameters. This confirms that the water delivered to our customers is safe for use as potable water. We will continue to be sensitive to changes in water quality and regulatory compliance in order to protect all who use our water.

Water Supply Availability Summary:

The MUA continually monitors available water supply for the community by way of MUA customer historical use records and by using New Jersey Department of Environmental Protection (NJDEP) Bureau of Safe Drinking Water (BSDW) standards. Over time, actual water used by our customers is increasing proportionally to the increase in total number of customers. Annual variations are largely due to changes in weather (temperature rainfall) as indicated with 2009 use.





The NJDEP BSDW also tracks and calculates available water supply and demand by each water supplier. Although the BSDW calculations relate to actual use and supply availability, the customer demand figures used by BSDW are not the same as the actual historical use records. In addition, in August 2007, the BSDW unilaterally reduced our estimated available supply capacity by 280 million gallons per year (MGY) as a result of conversations with NJAWC regarding our off-peak purchase contract. The MUA began the NJDEP appeals process regarding these issues in September 2007; these issues have not yet been resolved.

This chart remains accurate in the fact that 2007 remains our peak use year in the previous 5-year NJDEP review window. However, because of the MUA increasing the annual NJAWC purchased nomination to 550 MGY in July 2008, the deficit was reduced by 50 MGY. NJDEP has not yet accounted for this change. Our water supply system remains in paper deficit, therefore NJDEP permits for new connections are on hold. Through our combination of water supply sources: our Elbo plant and purchased water contracts, the MUA continues to have adequate capacity to supply our customers.

Water Allocation Permit #5193:

Term – 2/1/2007 to 1/31/2017

Diversion –

Ground Water = 5800 gpm, 120 MGM, 717.452 MGY via wells 3, 4, 6 and ASR 7

Surface Water = 186 MGM, 1237.548 MGY via proposed Rancocas intake

The MUA is continuously compliant with allocation limitations.

The MUA is currently seeking an increase in annual allocation from NJDEP related to the proposed Rancocas surface water intake; MUA requested an adjudicatory hearing on February 14, 2007. NJDEP has not yet scheduled a hearing date therefore this issue remains unresolved.

The MUA is currently seeking an increase in monthly allocation (from 120 MGM to 165 MGM) related to the existing groundwater allocation from NJDEP. A draft permit was issued by NJDEP on April 15, 2008; final permit has not yet been issued, but was expected in May 2008. The MUA has requested the NJDEP hold the public hearing and issue the final permit.

We continue to work with NJDEP on a global settlement of our water supply appeals.

The second step in our three-part plan for the water supply system is nearly complete and is functioning as expected.

Water Supply Plan:

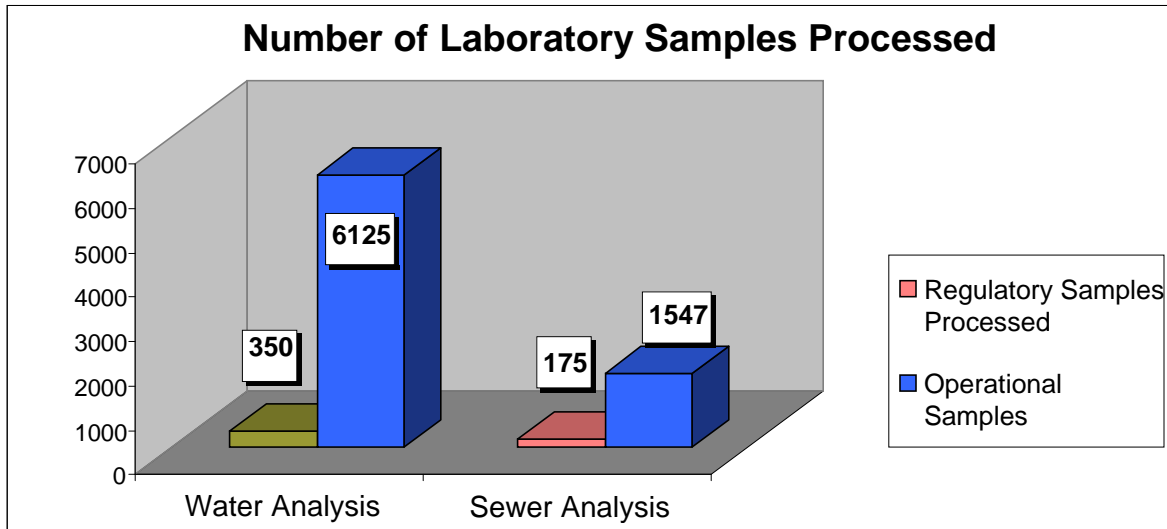
1. Implement ASR to augment summer requirement while reducing summer dependency on purchased water – complete
2. Replace out of date water treatment plants with one facility and controls for source management – almost complete (still waiting for NJDEP increased monthly allocation permit, for summer use.)
3. Construct a new alternative water supply source within Mount Laurel to reduce water purchases from other suppliers – in progress (still mediating terms of the NJDEP allocation for the Rancocas permit).

Upgrading Our Water Meters:

The Mount Laurel MUA continues the process of upgrading water meters in homes (over a 10-year period) to a metering unit that offers many benefits to the customers and the MUA. The new units are read by our personnel utilizing radio communication. This allows our reader to gather the meter reading without entering the property as most reads can be obtained from the sidewalk area. The upgraded meters provide all of the capabilities of the current meter with the addition of advanced leak detection capabilities. These meters continuously record usage however in order to conserve electronic life, the visible readout goes into “rest” mode when not needed. To view the meter reading at any time, the customer must wake up the readout by simply shining a flashlight on the meter face.

Other MUA Departments

Certified Laboratory:



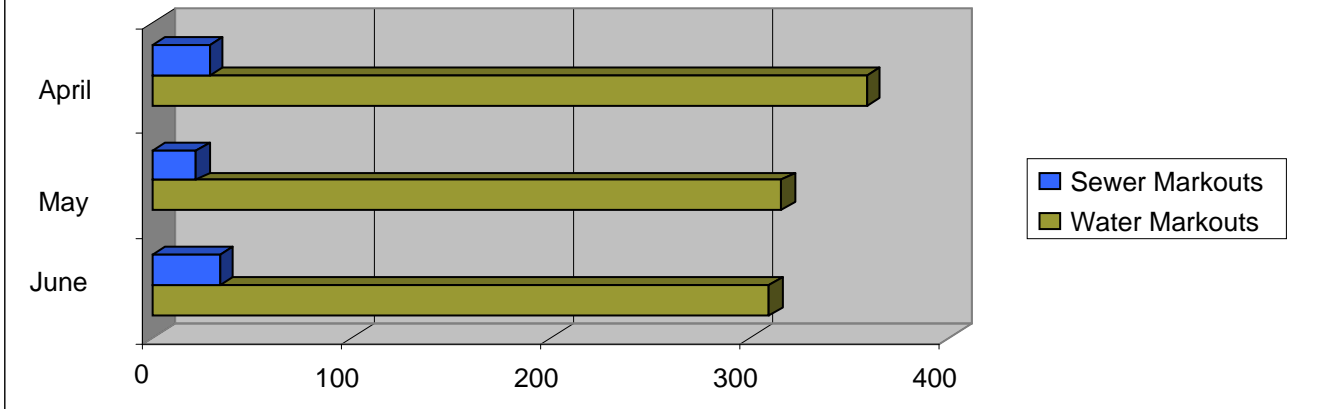
The number of regulatory samples processed conforms to the requirements set forth by regulation or permit requirement. Additional operational samples (not required) are performed in order to refine treatment capability and to detect and react to changes in quality.

- Analyzed soil samples from water main breaks for acidity:
(2) Buckingham Way York Rd & Cornwallis Drive (2) Bentley Drive
Wharton Road Lindale Avenue (2) Meadow Drive
Country Lane York Road
- The NJDEP Office of Quality Assurance performed an audit of our main lab this quarter. The audit went well with only 6 minor deficiencies found. We are in the process of updating our Standard Operating Procedures (SOP) for metals analysis to reflect changes in newly promulgated regulations for drinking water. SOP's for anions analysis and fecal coliform analysis are being updated for clarification purposes. These changes will be implemented no later than September 30th.

Water & Sewer Mark Outs

The MUA receives all requests for Mark Outs when digging is involved anywhere in Mount Laurel Township. The MUA pays for participation with the 1-800-272-1000 call before you dig service for verification management. Each request is reviewed by MUA field personnel to determine if a mark out is required. When a mark out is required, MUA field personnel are dispatched to each request location to identify MUA underground facilities.

Sewer & Water Markouts (Call Before You Dig)



1112 Mark Out Requests Received for the Quarter

985 Mark Outs Performed by the Water Department

85 Mark Outs Performed by the Sewer Department

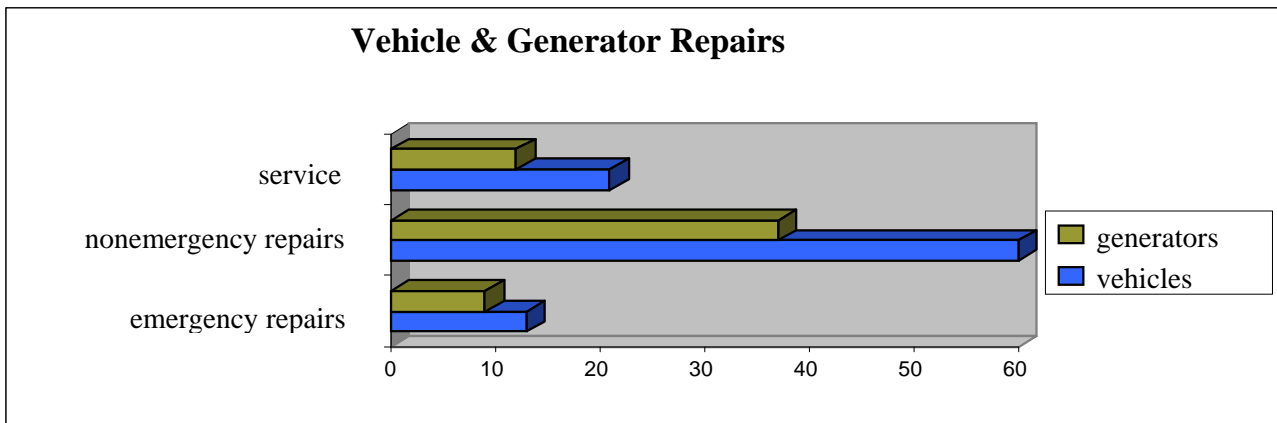
1070 Total Mark Outs Performed by the Water & Sewer Departments

Vehicle Maintenance & Power Equipment:

The MUA maintains 39 Vehicles in its fleet, 17 pieces of equipment and 57 generators for emergency standby power. The MUA facilities are supplied with 100% backup emergency power via diesel powered standby generators. This enables the MUA to operate all facilities at full capacity during power failures or during periods of low voltage (brown outs). This is particularly important during storm events, when wastewater-pumping volume increases due to infiltration and inflow into the sanitary system.

Each generator operates under load once per week. During Philadelphia area poor air quality days, exercising of generators must be postponed until air quality is within normal range. In addition, all standby generators are load-banked once per year.

Vehicle & Generator Repairs



Special Projects Performed by our Vehicle Maintenance Department (previously outside contractors performed this type of work for the MUA):

04/29/10 - Design, Constructed and Installed Crane Control Enclosure for the Crane at the Larchmont Pump Station

04/30/10 - Repositioned Ladder Support Brackets and Straightened Ladder Rails at Gather Pump Station

05/19/10 - Knox Box Station Fabrication and Installation at Hartford Plant for fire inspection compliance

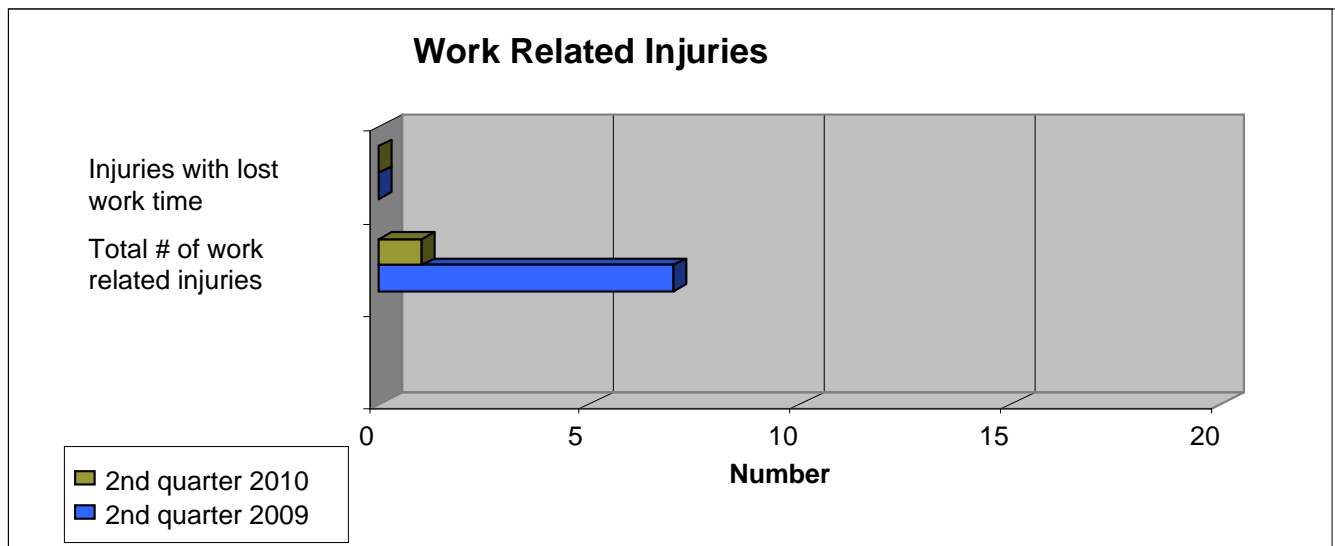
06/02/10 - Design and Fabricate Aluminum Brackets for the installation of (2) Air Compressors at Holiday Village East Pump Station

06/03/10 - Design and Fabrication of a Ventilation Blower Adapter to convert the type of Blower Unit used at Holiday Village East Pump Station

Safety:

There was one minor injury this quarter with no lost time:

- Lower back strain, while pulling manhole covers



Safety Training/Inspections:

- Only about 5 percent of the 400,000 sudden cardiac arrest victims in the US are saved each year. The American Heart Association (AHA) says as many as 50,000 more lives could be saved annually if AED’s were more widely available. The MUA has 3 AED units; they are located at the Hartford Road WPCF, the Administration Building and the Elbo Lane WTP. Employees receive AED and CPR training from Mount Laurel EMS, our next training will occur in the summer of 2011
- Confined Space training and certification performed for all field employees
- Annual Right to Know surveys were completed and sent to NJ Department of Health, Fire Department, Police Department and Burlington County Health Department
- Fire Department performed fire safety inspections of all sites

Human Resources:

- The Executive Director and Human Resources Director attended training on the recently approved pension law changes. The program was presented by the Association of Environmental Authorities and featured Marc Pfeiffer, Acting Director DLGS, DCA and Ken Hartman, Manager NJ Division of Pension & Benefits presented an overview describing the changes in pension law brought about by Chapters 1, 2 and 3 PL 2010.

Our employees are licensed Water & Wastewater professionals. We have 27 MUA employees holding a total of 61 NJDEP licenses for operation of water and/or wastewater systems. The MUA must employ and designate a licensed operator for each of our four areas of service: Water Distribution (level W-3), Water Treatment (level T-4), Wastewater Collection (C-3), Wastewater Treatment (S-3). Employment of additional licensed operators in all operational areas adds value to the service we provide to the community.

- 11 operators with level 1 licenses, for operating systems with 101 to 1,500 people
- 28 operators with level 2 licenses, for operating systems with 1,501 to 15,000 people
- 12 operators with level 3 licenses, for operating systems with 15,001 to 50,000 people
- 10 operators with level 4 licenses, for operating systems with 50,001 or more people

In addition, we have (2) two ASE Certified (Automotive Services Education) Mechanics

- Members of our staff have formal post secondary education in the following disciplines:

Finance/Accounting	Chemistry
Biology	Computer Science
Business	Management
Safety	Civil & Environmental Engineering

Public Education:

- On April 19th the MUA did an Environmental Presentation for a Brownie Troop in Delran of Water Supply/use and watershed model pollution
- At the request of the Mount Laurel Township, we participated in the Mount Laurel Green Expo 2010 on April 20th. This Expo was a great success for Mount Laurel Township. It was widely attended by residents. The MUA’s display booth highlighted the MUA’s Ramblewood Solar Project, Solar alternatives for homeowners, water sustainability and conservation practices.



- On April 24th the MUA participated in the Camden County Earth Fair in Collingswood
- On April 28th a Brownie Troop from Parkway Elementary School toured our Hartford Road Facility
- On April 29th the MUA did an Environmental Presentation for a Brownie Troop of Parkway Elementary School Water Supply/use and watershed model pollution
- On May 17th the BCIT Operator License Class toured our Hartford Road & Elbo Lane Facilities.
- On May 18th the MUA did an Environmental Presentation for Pre-k students at Parkway Elementary School Water Supply/use and watershed model pollution
- On May 21st the Rutgers EcoComplex, Environmental Stewardship Program class toured our Hartford Road Facility
- On June 10th, seventy 3rd graders from Fleetwood Elementary School visited our Hartford Road & Elbo Lane Facilities.
- Our Sewer Treatment Plant Supervisor volunteered his time to be a judge at the Delaware Valley Science Fair this quarter. For more information about this fair please visit their website at www.Dvsf.org



Finance Department:

User Fees billed: \$ 3,763,585.03

User Fees budgeted: \$ 4,039,317.00

User Fees collected: \$ 3,787,545.77

Expenditures for the quarter:

Accounts Payable \$ 1,955,268.10

Payroll (including
tax liabilities) \$ 982,881.12

Debt service \$ 0.00

Capital Projects \$ 2,554,802.11

Total Expenditures: \$ 5,492,951.33

- Adopted upcoming fiscal year 2011 operating and five-year capital plan budget
- Amended fiscal year 2010 operating budget
- The MUA's electric bills eclipse \$1.4 million per year. On May 20th, the MUA awarded a contract to Constellation Energy for supply of electricity as third party supplier. We expect to realize approximately \$130,000 savings each year on electric expense with this change.
- On June 17th, the MUA granted the request for an appropriation to Mount Laurel Township of
- \$400,000 to be applied to the 2010 municipal budget.

Shared Services:

Mount Laurel Township

Public Works

The MUA responded to 5 public works service calls:

4 Sink Hole and Storm Drain collapse –

- Woodview Drive, Broadacre Drive
 - Storm drain leaks. MUA personnel coned off the area and reported findings to Public Works
- Winston Road
 - MUA personnel found sinkhole behind storm drain in grass. Traffic cone placed over effected area and reported findings to Public Works.
- Forrest Lake Drive
 - MUA personnel coned off the area and reported to Public Works for repairs.

1 Storm Drains Clogged in the vicinity of Moorestown-Mt. Laurel Road and Union Mill Road

- MUA jetted area storm drain on numerous occasions. A large root mat had grown inside the pipes.

Underdrains:

The MUA and Mount Laurel Township have a maintenance and operational agreement for the lower level underdrain systems located in the Ramblewood developments. The agreement stipulates that the MUA will check operation of the Township's six underdrain pump stations and respond to all service calls from residents. In addition, the MUA checks the discharge inverts and outfalls from the Ramblewood underdrain system. Improvements to the underdrain system remain the responsibility of the Township. Underdrain related service calls are handled by the MUA. Service calls from areas not covered by the agreement have increased recently; the MUA continues to respond to these calls. The Township reimburses the MUA for these services.

The MUA is working with Mount Laurel Township to improve the underdrain plans. This project will continue until the MUA is confident that all known upper level and lower level underdrains are adequately mapped.

Underdrain stations and system:

This quarter our Pumping Station crews checked the 6 Underdrain Pump Stations twice per week and responded to 10 underdrain complaints.

April 2, 2010 Cornwallis Dr. - MUA personnel jetted underdrain from house #752 to outfall and broke the blockage and the flow looked good. Total of 1045' jetted.

April 5, 2010 Mill Run Underdrain Station – MUA personnel found the station had a blocked line in the wetwell. - MUA personnel cleaned the station's wetwell and influent lines. Blocked line in the wetwell was cleared. Sump pump removed and cleaned out internally and externally.

April 6, 2010 Custer Court – MUA personnel returned to Custer Ct. after receiving a complaint on March 30th of underdrain running full. They jetted 180' and 318' on Custer Court.

April 7, 2010 Knotty Oak Drive - MUA personnel jetted underdrain from cleanout at house #162- 560' towards fallout at corner of Dewberry Ct. Jetted from the next cleanout, 560' towards fallout at corner of Dewberry Ct., upstream 560' towards both cleanouts that were previously jetted. Flow at fallout looked good when completed.

April 14, 2010 Carteret Court – Received call water in the basement/sump pump constantly running – MUA personnel checked all manholes on Carteret Court –Underdrain system plans were not available for this street. Jetted 500' + with our truck located on Cornwallis Dr. at the intersection towards the underdrain outfall. Customer's sump pump was not tied into the underdrain system it discharges into the street at the curb line. MUA personnel did feel there was a blockage in the underdrain and did not see any difference in the flow at the outfall.

April 20, 2010 Chapel Hill Road – Received call from Twp, UD blockage upper level – MUA personnel tried to jet the underdrain but could not break the blockage. The jetter truck hose got stuck and we had to use an MUA pickup truck to pull the hose out. Possible hole in pipe or support joint. Jetted 210'

May 26, 2010 Chapel Hill Road – Received call from Twp asking for the underdrain to be jetted – MUA personnel found the Public Works Dept. had dug a hole and had the underdrain exposed. They tried to jet the UD but could only get 52’ which put them at the base of a tree in front of the property.

May 28, 2010 Chapel Hill Rd. – MUA received call from Twp. blockage in upper level underdrain system can we jet the line – Public Works removed the tree and a section of the underdrain. Jetted from excavated hole directly into pipe.

June 9, 2010 Saint David Drive – MUA received call from Mount Laurel Police Department customer had water in their basement – MUA personnel checked Mill Run underdrain PS which appeared to be working properly. Inspection the customers basement and found sump pump installed near his underdrain which was surging. The pump was handling the upcoming flow – carpet in the corner of the basement was damp. Contacted PM Water Department employee for backup checked the upstream plug it was ok. The downstream plug was located in front of #301 – deep sweep – was an 8” pvc – it was hooked up in an elbow – had water department rope and pull the plug, it was clogged with solid iron. We tried to unclog it by hand; we removed most of the iron and got a drip thru the underdrain. MUA personnel jetted 255’ (2x) & broke blockage. Checked homeowner’s basement & the sump pump stopped running. Advised Twp.

Mount Laurel Township:

- As a courtesy for Mount Laurel Township, the MUA Sewer Collections Department cleans out the Pond at PAWS Farm and tanks out the septic tank at Laurel Acres Park the 2nd Tuesday of each month.
- As a courtesy for the Mount Laurel Township’s Green Team, we mailed information about Green Expo 2010 with our April monthly billing.

Mount Laurel Fire Department:

- The Fire Department provided a Solar Panel Safety Class in which the MUA’s Electrical Department attended.

Delran Township:

- On 05/14/10, we televised 225’ of gravity main for Delran.

Burlington County

- The MUA loaned the Engineering & Highway Department of Burlington County a self retracting lifeline with rescue winch (single user) from May 13-June 8, 2010.

Capital Improvement Projects

Water

Proposed Surface Water Treatment Facility - Rancocas Creek

- The purpose of this facility is to supplement water supply while reducing purchased water.
- The pilot facility operated and produced drinking water in 2004 and 2005.
- The final water allocation permit was received from NJDEP in January 2007 however; it only allows a maximum diversion from all sources of 1,955 MGY, which is less than the ten (10) year projected demand of 2,201 MGY.
- The MUA appealed these permit conditions in February 2007. DEP Office of Administrative Law scheduled a hearing for May 20, 2008, which was postponed. An initial mediation session was held on July 25, 2008. No further sessions have been held; the MUA is waiting for information from the NJDEP.

2009 Water Main Replacement

- This project includes replacement of water mains on Sumac Court in Birchfield, Malvern Court & Ashby Court in Larchmont. These sections of main were chosen because of the number of breaks that occurred, and the condition of the existing pipe encountered during the repairs.
- The contract was awarded on March 18, 2010 to B&B Construction in the amount of \$310,329.
- The contractor continues to install water main in the Ashby Court section and to connect existing building service lines to the new main.

Hartford Rd Parker's Creek Crossing Water Main Replacement

- Although this main was installed in 1989 it requires replacement. It is a major transmission main and secondary feed in the distribution system and cannot be out of service for extended periods.
- Due to the number of permits required and potential environmental impact, replacement in kind below the stream bed was not viable. Therefore, alternatives explored were attaching to the
- County bridge and directional drilling, with directional drilling as the least cost alternative.
- Our Engineer is working with NJDOT for right of way acquisition.
- Final plans are anticipated in the next few months.

ASR Well #7

- Emergency repair work continued associated with the variable frequency drive unit failure in the summer of 2009.
- Estimated cost is \$120,000.
- Repairs were scheduled to be complete in May in order to correspond with the end of the off-peak water purchase period. However complications arose and the MUA needed to continually bandaid the well operation for the summer peak period.
- Final repairs are planned for the fall 2010 when water use demands drop.

Willingboro Booster Station

- A second of the 4 variable frequency drive units for the pumps failed at the facility.
- Emergency repairs to one of the units occurred in April so that at least 3 of the pumps would be available for summer use.
- The 4th VFD repair will occur in the next budget year, after July 1, 2011.

Sanitary Sewer

Lighting Surge Protection

- This project is for lighting and surge protection study at the Hartford Road plant as the facility was struck by lightning on several occasions causing thousands of dollars in damage and disruption to the treatment process.
- Cost estimates for this work were substantial, over \$200,000. As such, the MUA will continue to repair damaged equipment with each incident.

Boothby Drive Sewer Main Replacement

- During routine MUA videotaping of sanitary sewer mains, we determined that the existing ACP gravity main has deteriorated to the point of replacement.
- A contract was awarded to D&D Utility Contractors for \$165,434.06.
- 850 linear feet of existing ACP main was replaced with PVC sewer main.
- This project is now complete.

Painting of 5 Sanitary Pump Stations

- 2009 inspections indicated that corrosion was occurring in various locations at these pump stations.
- We determined that no structural damage had yet occurred, but that repainting of the corroded areas was needed to prevent further corrosion and deterioration of the stations.
- Each of the stations contains lead based paint, therefore work must be performed by a lead abatement contractor.
- Our Engineer is preparing specifications for the project.

Ramblewood Solar Array

- This project qualified for federal stimulus funding of \$2.6 million in grants (principal forgiveness loan) and \$2.6 million in low interest loans in order to cover the cost of the entire project. However, since the bid came in below the estimated cost, they were downsized to \$2.2 million each. Loan closings occurred in October and December 2009.
- The project includes installation of ground-mounted solar panels to provide electricity for the Ramblewood PS and adjacent potable water supply well #6. The solar panels (529 kW) are sized to provide, over the period of a year, all the electrical energy required to operate these facilities.
- The design-built project was awarded to Lighton Industries for \$3,257,000.
- Testing and preliminary startup of the system occurred on May 22 and June 17. Formal system startup will occur after approval by the Bureau of Public Utilities and is expected in August 2010.



Sanitary Sewer Rehabilitation

- As part of the MUA's on going, I&I program, in March 2010 as contract was awarded to En-Tech Corporation in the amount of \$592,768.45.
- This project includes slip lining of 7,700 feet of sanitary sewer mains and rehabilitating 43 manholes in the Ramblewood and Devonshire neighborhoods.
- This project was fast-tracked and moved to FY2009/2010 due to the potential for federal stimulus funding. The project qualified for principal forgiveness funding but was beyond the fundable range of projects. The project also qualified for the stimulus loan funding; it is being financed with a 0% interest rate for 75% of the project cost; the remaining 25% of the cost will be at market rate at the time of closing in March 2010.
- The contractor has started to line the sewer main in Ramblewood Parkway. In one section during the lining process, gravel became lodged between the liner and the existing main, which prevented the liner from curing properly and restricted the flow in the main. As a result, the contractor was required to cut out and replace this section of main.
- The liner material is a resin impregnated flexible felt tube, which after being inserted into the existing main; is cured by heated water or steam; results in a hard impermeable pipe-within-a pipe.

- The “new” sewer main has a projected life of 50 years, so the Authority will effectively double the useful life of the mains lined.
- The areas chosen for this initial lining project were the “trunk line” on Ramblewood Parkway from Route 73 to the pump station at the South Branch Pennsauken Creek, and Devonshire Boulevard from Larchmont Boulevard to the Authority’s Devonshire Pump Station. These areas were chosen as a result of the MUA’s sewer main videoing program which enables the Authority to inspect the mains, target leaking and/or failing mains, and reduce the amount of ground water entering the system; all without having to excavate and replace the pipes.



1st Section of Liner



Steam Exhaust from Liner