

2014 Utilities Division Year End Report

Mission Statement:

The primary responsibility of this Division is to supply the Borough of Chatham with the production, treatment, and storage of clean safe drinking water of the highest standards. The Division follows the standards set forth by the New Jersey Department of Environmental Protection, and the Federal Safe Drinking Water Act. Keep in mind that our primary goal is customer service to the residents of Chatham. This Division is also responsible for the sanitary sewer collection system. This system is mainly gravity to the Madison-Chatham Joint Meeting Wastewater Treatment Facility. There are three sewer lift station that are maintained by the division. Once the Wastewater is treated for contaminants it may be returned to the environment.

The Division is also in charge of the maintenance of the Mulch Resource Recycling Area. The Mulch area receives the yearly collection of leaves from the fall collection services the Borough provides to the residents. Residents can drop off grass clippings and brush. They also can pick up processed leaf and wood mulch for gardening.

Water Plant, Treatment, and Distribution Systems:

Regular Hours 2014 – 4426 / 1.97% Decrease

Overtime Hours – 385 / 3.50% Decrease

Regular Hours 2013 – 4515

Overtime Hours – 399

Distribution System:

The division made the following upgrades and repairs to the water system infrastructure in 2014:

- Spring hydrant flushing took place, to clear sediment and tuberculation from the water mains due to age and the pumping process. In the fall all hydrants in the system received a new reflective spring hydrant marker.
- Eight (8) hydrants with service valves were replaced during the year (see attached chart).
- Six (6) major valves were replaced. Two (2) new additional valves were installed and two (2) were repaired. (see attached chart)
- Four (4) lead water services were replaced. Five (5) new services were added to the system. Five (5) services were repaired, and three (3) unused service connections were abandoned. (see attached chart)
- 376 water meters were replaced or added during the year.
- 740 requests for Utilities Water Markouts were processed during the year.

25 water key boxes were dug up and replaced or repaired during the year. (see attached chart)

Emergency Water System Repairs:

Two (2) water mains received emergency repairs during the year (see attached chart).

2014 Goals Achieved:

1. Replacement of Eight (8) Hydrants
2. Flushing of Hydrants in spring only
3. Water Meter Radio Reading System Installations
4. Replacement of Lead Water Services
5. SCADA Computer System Control Upgrades

Sewer Collection System:

Regular Hours 2014 – 620 / 4% Increase

Regular Hours 2013 – 596

Overtime Hours – 27 / 157.1% Increase

Overtime Hours – 10.5

Sanitary Sewer Collection System:

28,515 feet of sewer mains were cleaned during the year. This was a decrease from 2013, when 32,272 feet of mains were cleaned.

Sewer Emergencies:

Six backups were reported to the Division during the year. They were cleared with our Jet Truck.

Maintenance of Sewer Lift Stations:

Maintenance to the three lift stations were conducted during the year. This encompassed the regular pulling of the pumps at the Riverview pump station to clear debris from the intake impellers. Servicing of the standby generators, oil changes, oil and air filter replacements. Parrott Mill Lift Station had oil and filter changes to the compressors.

Sewer Repairs:

A manhole ring and cover had to be replaced and raised in the front yard of 46 Hedges Avenue.

2014 Goals Achieved:

1. Sewer Jetting of 28,515 feet of sewer mains
2. Sewer Camera Inspection of Trouble Areas
3. Sewer Pump Maintenance Conducted
4. Purchase of a Push Camera
5. Sewer Jet Maintenance

Mulch Area:

Regular Hours 2014 – 863 / 24.7% Decrease

Regular Hours 2013 – 1,147

Overtime Hours – 173.5 / 1.4% Decrease

Overtime Hours – 175.5

The year started off with the collection of Christmas trees picked up and hauled to Rotondi's transfer site. In March, a town wide brush collection was conducted. Leaf windrows were constructed during the fall leaf pick up program and turned during the year. The yearlong operations at the site saw the removal of grass and brush. Resident's requests for mulch and woodchip deliveries were processed.

Parks Activities:

In May, the Division was in charge of turning the water on to the bath house and checking the plumbing. The removal of stored equipment in the bath house was brought out and placed on the deck. In the fall the bath house plumbing was winterized and equipment stored.

2014 Water Service Replacements & Repairs

Date	Address	Type
3/14/14	56 Watchung Ave.	2' Copper / ¾" Union / ¾" 90
3/26/14	19 Washington Ave.	Replace Lead Service / Tap Main & ¾" Corp / ¾" Curb Stop / ¾" Union / 8' ¾"
4/3/14	88 Woodland Rd. (Garden)	1" Tap & Corp / 60' 1" Copper / 1" Curb Stop / 1" Pit Meter
4/9/14	Community Garden	Complete 410' 1" Plastic Water Service Line
4/10/14	Community Garden	Install Pit & Backflow Preventer & Reducer
4/21/14	8 Rose Terrace	Unused Water Service Leak / 8" x ¾" Tapping Saddle & ¾" Corp & Shut it Off
4/28/14	55 Main St. (Parrott Mill Side)	2" Tap / 2" Corp / 8" x 2" Tapping Saddle
5/22/14	191 Watchung Ave.	Replace Leaking Lead Service / ¾" Corp & Tap / ¾" Curb Stop 45' ¾" Copper / New Key Box
6/3/14	55 Garden Ave.	Replace Broken Service Connection / 1-6" x ¾" Tapping Saddle / 1- ¾" Corp / 1- ¾" Union / 1- ¾" 90 / 2' of ¾" Copper
9/15/14	17 S. Passaic Ave.	New Water Service Tap 8" Main / ¾" Corp / ¾" Curb Stop / Key Box / Pit Meter Vault & Lid / Meter Yoke / Hose Bib / 40'- ¾" Copper
10/9/14	6 Bartow Lane	Replace Leaking Lead Service / Tap 4" Main / 1- ¾" Corp / 1- ¾" 45 / 1- ¾" curb Stop / 30' ¾" Copper / 1- Key Box
10/14/14	2 Girard Ave.	New 1" Tap / 15' 1" Copper / 1" Corp / 1" Curb Stop / Key Box
10/20/14	Farmers Market	Repair Service / 1- ¾" Union / 1- ¾" 90 / 2'- ¾" Copper
10/24/14	32 N. Summit Ave.	Abandon Unused Lead Service

10/24/14	31 N. Summit Ave.	Replace Lead Service / Tap 4" Main / 1 – ¾" Corp / 1 ¾" Curb Stop / 1 – ¾" X 1" Adapter / 28' Copper
11/3/14	201 Washington Ave.	New 1 ½" Water Tap
11/3/14	201 Washington Ave.	Abandon 1" Service

2014 Key Box & Curb Stop Repairs

Date	Address	Type
5/6/14	18 Hedges Ave.	Dig & Reset New Key Box
5/6/14	51 Tallmadge Ave.	Dig & Reset New Key Box
5/12/14	28 Greenwood Rd.	Dig & Repair Curb Stop / Reset New Key Box
5/28/14	16 Minton Ave.	Dig & Reset New Key Box
6/4/14	25 Rowan Rd.	Dig & Repair Curb Stop / Reset New Key Box
6/12/14	56 River Rd.	Dig & Reset New Key Box
7/8/14	31 Tallmadge Ave.	Dig & Reset New Key Box
7/15/14	10 Edgewood Rd.	Dig & Reset New Key Box
7/16/14	30 Lum Ave.	Install Key Box Repair Lid
8/25/14	1 Meadowbrook Rd.	Dig & Reset New Key Box / 1-3/4" Curb Stop / 1-3/4" Union
9/4/14	99 Vandoren Ave.	Dig & Reset New Key Box
9/17/14	8 Fairfax Terrace	Dig & Reset New Key Box
10/7/14	32 Burgess St.	Dig & Reset Key Box
10/7/14	24 Clark St.	Dig & Replace Curb Stop / 1-3/4" Curb Stop / 1-3/4" Union New Key Box
10/15/14	31 N. Summit Ave.	Install New Key Box
10/16/14	25 Roosevelt Ave.	Install Key Box repair Lid
10/17/14	56 East Coleman Ave.	Install Key Box Repair Lid
10/21/14	3 Lum Ave.	Install New Key Box
11/5/14	27 N. Summit Ave.	Curb Stop Repair & New Key Box
11/7/14	9 Red Rd.	New Key Box
11/21/14	25 Minton Ave.	Curb Stop Repair & New Key Box
11/25/14	1 Jessica Ct.	Replaced Key Box
12/1/14	9 Pihlman Pl.	Repair Key Box / Top Section
12/19/14	52 River Rd.	Replace Curb Stop & New Key Box
12/23/14	20 Rowan Rd.	Repair Key Box / Top Section

2014 Water Main Breaks / Repairs

Date	Address	Type
1/15/14	Raymond St. & Hillside Ave.	Install 5'6" of 4" Water Main / Remove Old Leaking 6" Valve 2 - 4" Hymax Couplings
1/17/14	41 Ellers Drive	Cracked 6" Main / 1-6" Repair Clamp
3/12/14	Bonnell St.	Repair ¾" Water Main / 2 – ¾" Couplings / 81" ¾" Copper
4/1/14	Bonnell St.	¾" Tap & Corp / ¾" Coupling / 4' of ¾" Copper/ ¾" Union
12/19/14	26 Main St.	Building Owners 6" Fire Main

2014 Hydrant Replacements & Repairs

Date	Address	Type
3/19/14	480 Main St.	Safety Repair Flange (Front of Middle School)
5/5/14	480 Main St.	Install Valve Box Riser (Side of Middle School)
6/18/14	12 Oak Dr.	Replace Broken Eddy / 5 1/2' Mueller Hydrant / 6" Valve/ 3' 6" Pipe / Valve Box
6/25/14	58 Fairview Ave.	Replace Eddy / 5' Mueller Hydrant / 6" Valve / 3' 6" Pipe 6" Hymax / Valve Box
6/26/14	64 Highland Ave.	Replace Darling / 41/2' Mueller Hydrant / 6" Valve / 6" Hymax / 3' 6" Pipe / Valve Box
7/10/14	Harvard St. @ Center Ave.	Replace Old Eddy / 41/2' Mueller Hydrant / 6" Valve / 3' 6" Pipe / 6" Hymax / Valve Box
7/24/14	Fairview Ave. & Highland Ave.	Replace Darling / 41/2' Mueller / 6" Valve / 4' of 6" Pipe / 6" Hymax / Valve Box
8/21/14	18 Duchamp Pl.	Replace Old Eddy / 5 1/2' Mueller / 6" Valve / 3' of 6" Pipe / 1-6" Hymax / Valve Box
9/2/14	94 Elmwood Ave.	Replace Old Eddy / 5' Mueller 6" Valve / 2' of 6" Pipe / Valve

		Box
10/2/14	552 Main St.	Replace Old Leaking Darling / 4 ½' Mueller / 6" Valve / 3'-6" Pipe / 6" Hymax / Valve Box

2014 Valve Replacements & Repairs

Date	Address	Type
7/1/14	Well # 1	Replace Cla-Val
7/2/14	Well # 2	Rebuild Cla-Val
7/14/14	Well # 3	Replace Cla-Val
7/17/14	Edgehill Ave. & Charles Pl.	Install 2-4" Valves
7/23/14	Vincent St. & Coleman West	Repair 4" Valve / New Bolts & Gasket
7/30/14	Fairmount Ave. & Oliver St.	Replace 10" Leaking Valve / 2-10" Hymax / 3' 10" Main / Valve Box
8/4/14	Milton Ave. School	Repair 4" Valve / New Bolts & Gasket
8/7/14	Milton Ave. & Duchamp Pl.	Replace 6" Leaking Valve / 2-6" Hymax / 3' 6" Main / Valve Box
8/7/14	Duchamp Pl. & Milton Ave.	Replace Leaking 6" Valve / 2 6" Hymax / 3' 6" Main / Valve Box

2014 Valve Box Repairs

Date	Address	Type
4/3/14	19 Washington Ave.	Install 3" Riser
6/11/14	191 N. Passaic Ave.	Install Rite Height Valve Box Riser
7/8/14	Fairview Ave. & Washington	Replace Valve Box
9/3/14	Orchard Rd.	Install 3" Riser & Lid

2014 Hydrant Painting

Date	Address	Type
6/20/14	80 Chandler Ave.	Yellow

2014 Sewer Main Repairs

Date	Address	Type

2014 Sewer Manhole Repairs

Date	Address	Type
10/8/14	46 Hedges Ave.	Raise & Install New Manhole & Lid

Borough of Chatham
Department of Public Works
Fleet maintenance
2014 Yearly Report

Mission Statement:

This Division's primary responsibilities include preventive maintenance, scheduling, service and repair of vehicles and equipment used by the Police, Fire and Public Works Departments in the most effective and cost efficient manner possible. Secondary responsibilities include making repairs to water plant equipment, well houses and sewer lift stations and participation in ice and snow removal and leaf collection as necessary.

Police Department:

Police Vehicles

- 5- Marked units
- 2- Unmarked units
- 3- Sport utility vehicles
- 2- Parking meter SUV
- 1- Pickup truck

Public Works Department:

This Division purchased a new pickup truck with power lift gate and plow that replaced a 14 year old model. This division also purchased a new SUV to replace a 12 year old vehicle, a Leaf vacuum to replace an aging unit, and purchased a 7 ton dump trailer. The utilities division purchased a new mason dump truck with plow to replace an aging unit. T-2- was scraped, sanded down, a coat of rust preventer was applied. The body was then repainted with yellow paint.

Borough of Chatham
Department of Public Works
Fleet maintenance
2014 Yearly Report

Public Works Vehicles

- 4- Pickup Trucks
- 7- Dump Trucks
- 1- Hook loader truck with 4 bodies
- 4- Mason Dump Trucks
- 2- Utility Service Trucks
- 1- Street Sweeper
- 2- Front End Loaders
- 2- Backhoes
- 1- Skid Steer Loader
- 1- Sewer Jet/Vacuum
- 1- Packer Truck
- 1- Sewer camera Van
- 1- Material Separator
- 1- Sport utility Vehicle
- 4- Leaf vacuums

This Division also services another one hundred and two (102) pieces of equipment.

Borough of Chatham
Department of Public Works
Fleet maintenance
2014 Yearly Report

Fire Department:

The division will be performing preventive maintenance on the Chief's vehicle, fire inspector's vehicle and the department's pickup truck every 3000 miles. We will perform any emergency repairs needed to keep the fleet up and running at all times.

Fire Department Vehicles

- 3- Pumpers
- 1- Aerial Ladder truck
- 1- Rescue Truck
- 1- Pickup Truck
- 1- Sport Utility Vehicle
- 1- Inspectors car

2014 Goals:

1. To purchase 2 270 gallon oil tanks and pumps for dispensing bulk oils.
Purchased in November 2014

Borough of Chatham
 Department of Public Works
 Fleet maintenance
 2014 Yearly Report

Police dept

<u>Unit #</u>	<u>Description</u>	<u>Cost 2013</u>	<u>Cost 2014</u>	<u>% + -</u>
#16	2011 Ford Explorer	\$439.98	\$1,384.20	214.60 +
#17	2014 Dodge Pickup Truck	New	\$108.63	108.63+
#18	2010 Ford Crown Victoria	\$1,493.36	\$2,559.83	71.41 +
#19	2011 Ford Crown Victoria	\$904.49	\$2,397.65	165.08 +
#20	2012 Ford Explorer	\$320.48	\$290.14	9.47-
#21	2013 Ford police Interceptor	\$145.93	\$848.08	481.16 +
#22	2008 Ford Crown Victoria	\$145.93	\$906.11	520.90+
#24	2012 Jeep Liberty	\$105.65	\$105.63	189.30-
#25	2006 Ford crown Victoria	\$580.56	\$687.43	18.41+
#26	2008 Ford crown Victoria	\$2,641.92	\$2,206.23	16.50-
#27	2008 Dodge Durango	\$994.17	\$1,533.41	54.24+
#28	2004 Dodge Durango	\$905.06	\$763.58	15.63 -
#29	2011 Ford Crown Victoria	<u>\$145.93</u>	<u>\$352.87</u>	<u>141.81+</u>
	Total	\$10,213.52	\$14,143.79	38.48+



Borough of Chatham
 Department of Public Works
 Fleet maintenance
 2014 Yearly Report

<u>Unit #</u>	<u>Description</u>	<u>Cost 2013</u>	<u>Cost 2014</u>	<u>% + -</u>
M-1	2004 Ford F-350 Service Truck	\$123.99	\$1,023.03	725.09+
PU #1	2009 Ford F-350 Pick Up Truck	\$3,562.88	\$1,461.80	58.97-
PU #2	2001 Ford F-250 Pick Up Truck	\$142.99	\$712.17	398.05+
PU #4	2001 Ford F-250 Pick Up Truck	\$2,676.87	\$643.66	759.59-
W-1	2006 Ford F-550 Service Truck	\$2,380.08	\$6,830.36	186.98+
W-2	2004 Ford F-350 Pick Up Truck	\$808.15	\$571.70	29.26-
T-1	2012 International 7400 Dump Truck	\$443.80	\$363.39	18.19-
T-2	2009 International 7400 Dump Truck	\$329.64	\$2,492.11	656.00+
T-5	2005 International 7400 Dump Truck	\$1,652.38	\$1,039.32	37.10-
T-6	2007 GMC C8500 Dump Truck	\$866.44	\$4,589.47	429.69+
T-7	2007 International 7400 Dump Truck	\$5,506.90	\$881.89	839.85-
T-8	2003 GMC C7500 Bucket Truck	\$1,297.82	\$621.38	52.12-
T-9	2003 GMC C8500 Dump Truck	\$1,955.35	\$2,137.12	9.30+
T-10	2004 GMC C8500 Dump Truck	\$1,714.78	\$1,875.14	9.35+
T-11	2008 Ford F-550 Dump Truck	\$280.63	\$691.95	146.57+
T-12	2004 GMC C8500 Dump Truck	\$359.28	\$416.42	15.90+
T-14	2005 GMC C4500 Dump Truck	\$1,001.17	\$13,459.59	1244.38+
T-15	2011 Ford F-550 Dump Truck	\$475.81	\$617.06	29.69+
T-16	2000 Ford F-350 Dump Truck	<u>Sold</u>	<u>\$0.00</u>	<u>0</u>
Total		\$25,578.96	\$40,428.09	58.05+



Borough of Chatham
 Department of Public Works
 Fleet maintenance
 2014 Yearly Report

<u>Unit #</u>	<u>Description</u>	<u>Cost 2013</u>	<u>Cost 2014</u>	<u>% + -</u>
#34	2004 International Sewer Jet	\$26817.45	\$2,024.64	924.50-
#35	2002 John Deere Backhoe	\$281.23	\$5,824.20	1970.97+
#36	2002 Case Front End Loader	\$887.88	\$1,298.84	46.29+
#37	2004 John Deere Front End Loader	\$5,183.56	\$2,141.05	58.69-
#38	2005 John Deere Backhoe	\$165.05	\$779.66	372.38+
#42	2006 Elgin Street Sweeper	\$3,257.49	\$2,541.56	21.98-
#44	2002 Gehl Skid Steer	<u>\$1,794.00</u>	<u>\$1,321.96</u>	<u>26.31-</u>
	Total	\$38,386.66	\$15,931.91	58.50-



Borough of Chatham
Department of Public Works
Fleet maintenance
2014 Yearly Report

<u>Unit #</u>	<u>Description</u>	<u>Cost 2013</u>	<u>Cost 2014</u>	<u>% + -</u>
LV #1	2008 ODB Leaf vacuum	\$2,489.54	\$2119.75	14.85-
LV #2	2008 ODB Leaf vacuum	\$2,515.81	\$1720.99	31.59-
LV #3	2004 ODB Leaf vacuum	\$2,565.35	New	
LV #4	2012 ODB Leaf vacuum	<u>\$2,589.26</u>	<u>\$2,159.18</u>	<u>16.61-</u>
	Total	\$10,160.05	\$5,999.92	40.94-

