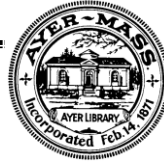


DEPARTMENT OF PUBLIC WORKS

Mark L. Wetzel, P.E., Superintendent
Daniel Van Schalkwyk, Town Engineer
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MONTHLY REPORT February, 2016

Below is a summary of the Ayer DPW's operations for the month of February. In addition to the items below, there are many ongoing projects in various stages that the DPW staff are involved with. If additional detail or information is needed, please let us know.

Engineering and Administration

- Met with Finance Committee and reviewed FY17 Ayer DPW Operating Budget
- Met with Capital Planning Committee and finalized DPW FY17 Capital Budget
- Implementing Mobile 311 Work Order Management / Asset Management Software
- Working on GIS mapping and condition assessments of drainage and sewer system
- Active involvement in Comprehensive Plan Committee including preparing Public Involvement Plan
- Preparing Green Communities Grant Application for LED conversion of Streetlights
- Completed final design of West Main Street Pumping Station
- Working on Ayer Dog Park design
- Worked with Engineer on East Main Street 25% submittal to MADOT
- Procured Engineer for West Main Street Culvert engineering
- Design of Water Division Garage
- Design of Fuel Station Canopy
- Construction coordination for Pingry Hill Water Tank
- Working on final design of Pleasant Street CDBG grant improvement project
- Managed meter upgrade project including scheduling and computer account changes
- Quarterly water and sewer bills were prepared and sent out for 3 routes
- Reviewed and responded to questions and issues related to water and sewer bills
- Processed and approved Road Opening Permits, Trench Permits and Water & Sewer Connection Permits

Highway Division

- Replace 180 feet of 24-inch drain pipe from Park Street to outfall behind Kleen-It
- Repaired pot holes and shoulders throughout town
- Plowing and ice treatment for 2 snow events and one ice event
- Installed new signs at various locations in town
- Performed beaver dam debris removal at the usual locations
- Marking locations of catch basins for winter clearing
- Repairing sanders and plows
- Mixing salt for winter
- DPW garage / facility maintenance
- Equipment and vehicle maintenance
- Trash and recycling pickup at numerous locations in town

DPW February 2016 Monthly Report

- Completed DIGSAFE mark-outs

Water Division

- Added data to H2O Water Reporting software and submitted reports to MADEP
- Maintenance of chemical feed systems at Grove Pond WTP
- Maintenance of chemical feed systems at Spec Pond WTP
- Repaired Service on West Main Street
- Collected data and input into Annual Statistics Report for MADEP
- Continued radio water meter installations throughout Town
- Completed required DEP monthly coliform and chlorine sampling
- Completed meter readings and assisted customers with leak evaluations and dirty water issues
- Completed DIGSAFE mark-outs
- Normal water treatment duties including daily testing and reports, chemical adjustments, equipment maintenance

**SUMMARY OPERATIONS REPORT FOR
AYER DPW WATER DIVISION**

Month/Year: 2016-02-01 To: 2016-02-29

PWS NO.: 2019000

Submitted By:

Detail/Description	Values					
Pump and Flow Information	Total	Average	Maximum	Minimum	Days	Hours
WTFGP - Backwash	2,578,000	88,897	133,000	0	29	0.00
WTFGP - Raw Water	22,016,000	759,172	1,431,000	42,000	29	0.00
WTFSP - Raw Water	13,478,000	464,759	956,000	0	29	0.00
Chemical Feed Information	Volume/Weight	Pounds	Avg Dosage (mg/L)			
KMnO4 - WTFGP	764.00	183.36	1.40			
Water Quality Information	Chlorine Analyzer (Free)	Iron (Total)	Manganese (Total)	pH	pH Analyzer	Turbidity
WTFGP - Raw Water					7.408	
WTFGP - Finished Water	0.057	0.029	0.039		7.072	0.043

Wastewater Division

- All NEPS permit requirements were in compliance for the month of December
- Total flow for the treatment plant was 41.6 million gallons with an avg. of 1.44 mgd
- Contractor hauled 15 loads of sludge. Solids loading has reduced over the fall.
- Implemented Mobile 311 into daily Pumping Station maintenance.
- Performed mechanical maintenance on four pump stations, including pulling pumps and inspecting bearings and seals, plus replacing vacuum lines and cleaning or replacing globes.
- Replace filter media for tertiary treatment process
- Washed down secondary clarifiers and outfall, cleaning UV system.
- Performed daily inspections of wastewater pumping stations
- Performed daily operations, laboratory testing and reporting for WWTP
- Completed DIGSAFE mark-outs
- Completed and submitted Monthly Operations Report for DEP and EPA

Solid Waste Division

- Normal transfer station operations including site clean-up, organization and monthly reports
- Leaf hauling to brush dump / compost area off Bishop Road
- Coordinated solid waste / recycling disposal including waste oil, scrap metals, textiles

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DPW February 2016 Monthly Report

Ayer Department of Public Works MONTHLY REPORT - February 2016					
Address	Street Name	Work Type	Modified Date	Description	Comments
	Brook St	Misc Water Work Order	2016-2-29 17:20	prepare for and attend Foreman's meeting, copy and distribute 2015 water quality results to industry's	
	SpecPond	Misc Water Work Order	2016-2-29 17:18	Correct air bound chlorine pumps	
	Barnum Rd	Misc Water Work Order	2016-2-29 17:17	Daily lab and rounds	
	multiple	Dig-Safe - Water	2016-2-29 17:15	Digsafes around town	
	Spec Pond	Misc Water Work Order	2016-2-29 17:05	rebuild Kmno4 pumps at Spec	
				Flush temp service line and witness bacteria sampling	
200	Washington St	Misc Water Work Order	2016-2-29 17:00		
0	Pond view #1 pump station	Check Controls/Alarms	2016-2-26 21:36		Had to reprime both pumps
0	Crabtree pump station	Check Controls/Alarms	2016-2-26 21:36		Pumps are working good
0	Willow road pump station	Check Controls/Alarms	2016-2-26 21:36		Pumps are holding vacuum and working good
0	West main pump station	Check Controls/Alarms	2016-2-26 21:36		Station is working good
0	Central ave pump station	Daily Inspection	2016-2-26 21:36		Still having on again off again communication failure
0	Oak ridge #1 pump station	Check Controls/Alarms	2016-2-26 21:36		Had to reprime both pumps
0	Oak ridge #2 pump station	Check Controls/Alarms	2016-2-26 21:36		Had to reprime both pumps
0	Pond view #1	Check Controls/Alarms	2016-2-26 21:36		Serviced station by cleaning globes, probes, solenoid valves and also greased the motors
0	Oak ridge #1 pump station	Check Controls/Alarms	2016-2-26 21:36		Replaced check valve in pump #2 with a cleaned and maintained check valve (rags were also in old check valve that was taking out most likely why it wasn't holding vacuum)
0	Oak ridge #2 pump station	Check Controls/Alarms	2016-2-26 21:36		Replaced with a new check valve on pump #2 and found rags in the old check valve (so most likely why it wasn't holding vacuum)
	Barnum Rd	Misc Water Work Order	2016-2-29 17:03	Daily lab	
	Barnum Rd	Misc Water Work Order	2016-2-29 17:03	Daily lab	
	Barnum Rd	Misc Water Work Order	2016-2-29 17:03	Daily lab	
	Brook St	Misc Water Work Order	2016-2-29 17:03	Prepare for and attend Foreman's meeting	
	All of Wright Road	Flushing	2016-2-24 14:56	Flush Wright Rd and dead ends	Little color and odor
	Westford Road at Nemco Way	Hydrant Replacement	2016-2-24 15:01	Prep, set up and replace hydrant top damaged by hit and run	
	West Main St	Flushing	2016-2-29 17:03	Flush from bridge to plaza	Little color strong odor
0	West Main St	Flushing	2016-2-23 18:51		
	Westford Rd at Nemco Way	Hydrant Replacement	2016-2-23 21:47	set up, prep and install hydrant top damaged in hit and run	
1	Wright Rd to end	Flushing	2016-2-23 18:50	Flush problem area and dead ends	
13	Calvin St	Misc Special Event	2016-2-26 14:33	Dead Possum side of road.	It's a possum and it's dead.
46Sandy	Pond Rd	Complaint/Investigation	2016-2-23 10:46	sink hole forming at fog line in front of garage	Plow ripped up water gate box top in road. Will replace and hot top around it in spring
0	Main Pump Station	Check Controls/Alarms	2016-2-26 21:36	Ayer totals=12938. Devens totals=101600. sent=100225/100k	Been having communication problems with Main and Central ave since 2/17/2016 phone line might of been problem had Verizon out on 2/22/2016 and checked lines
0	Oak ridge #2 Pump Station	Check Controls/Alarms	2016-2-23 13:47		Pumps running good
0	Oak ridge #1 Pump Station	Check Controls/Alarms	2016-2-23 13:47		JMS serviced the whole station may need to replace check valves in pump #2
0	Wrightway Pump Station	Check Controls/Alarms	2016-2-23 13:47		Alarm for wrightway kept coming in this weekend and monday as normal (most likely probe is dirty) 2/22/2016
0	Hedgeaway Pump Station	Check Controls/Alarms	2016-2-23 13:47		Pumps are working good
0	Pond view #1 Pump Station	Check Controls/Alarms	2016-2-23 13:47	Generator Hours=228.3	Had to reprime pumps #1 and #2
0	Winter berry Pump Station	Check Controls/Alarms	2016-2-23 13:47		Pumps are running good
0	Mulberry (Crabtree) Pump Station	Check Controls/Alarms	2016-2-23 13:47	TOTALIZER=1984728	Pumps are working good
0	Willow Pump Station	Check Controls/Alarms	2016-2-23 13:47	Generator Hours=299.7	Pump #2 is shut off will not prime Small Water has been notified and they said shut it off and they'll work on it this week 2/22/2016
0	West Main Street Pump Station	Check Controls/Alarms	2016-2-23 13:47		Oldest pumps station working good
0	Moore Drive Pump Station	Check Controls/Alarms	2016-2-23 13:47		Pumps working good
0	Washington Pump Station	Check Controls/Alarms	2016-2-23 13:47		Pumps working good
15	Oak Ridge Dr	Dig-Safe - Water	2016-2-18 21:51	Call in emergency Digsafe markout	
	thru out town	Dig-Safe - Water	2016-2-18 21:50	markouts	curbstops buried under ice and snow
	Grove Pond	Water Quality Sampling	2016-2-18 21:46	Daily lab	
25	Groton School Rd	Shut Off	2016-2-18 21:52	Emergency turn off and back on	Curbstop buried under snow and frost, property owner needs to correct meter pits and valves for easy access
	Brook St	Misc Water Work Order	2016-2-17 19:33	Replace rotted brake line and service truck	mechanic was busy with Highway Equip.
	Barnum Rd	Misc Water Work Order	2016-2-17 19:31	Work on EASR	
	Townwide	Water Service Work	2016-2-17 17:07	All Water personnel plow town roads for Highway Dept	
	Spectacle Pond	Water Service Work	2016-2-17 19:23	replace air relief valve, air scour, backwash, replace chlorine pumps, repair leaks, send 2 pumps out for rebuild, call Hopkins re KOH pumps Grove	
60	Barnum Rd	Water Service Work	2016-2-17 19:23	Water personnel assist Highway Dept with plowing town roads	
	Spectacle Pond	Water Service Work	2016-2-29 17:02	rebuild cl-17 , install new colorimeter , air scour, backwash filters	
60	Barnum Rd	Water Service Work	2016-2-17 16:53	Read meter route	
60	Barnum Rd	Misc Water Work Order	2016-2-17 19:27	Continue working on EASR	
	Barnum Rd	Misc Water Work Order	2016-2-17 19:24	Chlorine pumps and lines replace, rebuild pre and post calibrate	
60	Barnum Rd	Misc Water Work Order	2016-2-29 17:04	door hangers and inventory for ordering meters	
	thru out town	Water Service Work	2016-2-24 14:47	install hydrant flags	
60	Barnum Rd	Water Quality Sampling	2016-2-18 21:53	bacteria and chlorine sampling	
	washington	Check Controls/Alarms	2016-2-23 13:47	townwide	
0	west main	Daily Inspection	2016-2-23 13:47	small station low flow	
	Hatch St	Equipment Preparation	2016-2-26 14:33	pumps are working	
0	West Main St. Pumping Station	Check Controls/Alarms	2016-2-16 19:46	Hatch Street is still snowy per call from resident.	
0	Crabtree Pump Station	Check Controls/Alarms	2016-2-12 20:15	TOTALIZER=1939312. WETWELL=3.1	Station is running good
0	Pond view #2	Check Controls/Alarms	2016-2-12 20:15	Generator hours = 382.6	Station running good
0	Oakridge Pump Station #1	Check Controls/Alarms	2016-2-12 20:15		Had to reprime pump #1
0	Oakridge Pump Station #2	Check Controls/Alarms	2016-2-12 20:15		Station was running good
0	Main Pump Station	Check Controls/Alarms	2016-2-22 14:08	Ayer Totalizer=57072896. (Devens Totalizer=500369600.) 100373/100k.	Station was working good
0	Washington Street Pump Station	Check Controls/Alarms	2016-2-12 20:15	Wetwell=1.6	
0	Moore Drive Pump Station	Check Controls/Alarms	2016-2-12 20:15	wetwell=8.6	
0	Willow Road Pump Station	Check Controls/Alarms	2016-2-12 20:15	Generator=293.7	pumps running good
0	West Main St. Pump Station	Check Controls/Alarms	2016-2-12 20:15	Generator=227.6	Had to reprime pump #2
0	Crabtree Pump Station	Check Controls/Alarms	2016-2-12 20:15	TOTALIZER=1936072. Wetwell=3.8	
0	Winterberry Pump Station	Check Controls/Alarms	2016-2-12 20:15		
0	Oakridge Pump Station#1	Check Controls/Alarms	2016-2-12 20:15		Pumps are working good
0	Oak ridge pump station#2	Check Controls/Alarms	2016-2-12 20:15		had to reprime both pumps #1 and #2
0	West Main St. Pump Station	Check Controls/Alarms	2016-2-11 20:57		both pumps were good
0	Central Ave Pump Station	Check Controls/Alarms	2016-2-10 18:46	Station was good	
0	Willow Road Pump Station	Check Controls/Alarms	2016-2-10 18:46		
0	Pondview #1 Pump Station	Check Controls/Alarms	2016-2-10 18:46		

Mark Wetzel P.E., Public Works Superintendent