



PAINESVILLE WATER DIVISION

OCTOBER 2011

OVERVIEW AND HIGHLIGHT

The water system had one main line water break for the month of October 2011. A 24" cast iron "T" on Williams St. in Painesville Township split, and repair plans were organized with the inclusion of businesses on Williams St. such as Osborne Inc, Carmeuse, and Sidley's.

There were forty-eight hydrants repaired in the Painesville Water Division's system for the month of October. Forty-four of which were located in the City of Painesville and the other four were located in Concord Township.

There were three new services also installed in the month of October. Two were in Concord and one was in the City of Painesville. Also there were two leaking services repaired and one leaking galvanized service replaced with copper this month in the City of Painesville.

Goals achieved

1. Water Distribution and Water Plant - To produce safe potable water that meets and exceeds all federal, state, and local regulations. (Stewardship and Customer Service)

Actions - All leaks were repaired

Actions – Continue abandoning service lines, which are no longer needed.

Actions – Continue monitoring Elm St. water quality

Action- Sent Ohio EPA state reports to different representatives of the Ohio EPA to ensure compliance.

Action – Had discussion with Ohio EPA representatives Jessica Dingman and Charles Vasulka.

Action - T.O.C. phosphate and nitrate collected and sent to Alloway for monthly compliance.

2. Water Distribution and Water Plant - Optimize operations (Customer Service and Communication)

Action - Distribution employees working in Lab and Plant operations

Action- Distribution employees Bruce Hook and Leonard Crosby are helping with plant maintenance and plant employee Edward Bardall is helping with maintenance at tanks and pump stations.

Action - Ronald Foresi (Heavy Equipment Operator) is hauling sludge from the plant on a semi-regular basis.

Action- Met with MWH Inc to continue to discuss possible options for raw water intake.

3. Water Distribution and Water Plant – Organize maintenance programs to efficiently operate Painesville’s Water Division. (Stewardship and Improving Painesville’s image)

Action - Monthly laboratory quality controls on all laboratory equipment.

Action - Reset high service #2 motor, CL2 room inspection, flush eye wash, and check eye wash kits

Action- Calibrated fluoride feeder, #3 high service motor was pulled for repairs.

Action- Greased floc drive motors 2, 3, 4, worked on raw screen levels.

Action- Installed new fluoride mixer motor in day tank

Action- Chlorine room inspection, tested chlorine detector, cleaned air filter, installed windows in #4 building, installed heater in #4 building, and tested man-down device.

Action- Worked with Morton Salt and received donation of approximately 10 tons of salt for winter.

Action- Installed salt spreader and prepared for salt delivery

4. Water Distribution and Water Plant - Continue to provide a skilled and proficient staff to the community. (Customer Service, Communication and Community Engagement)

Action - Requested from customers and received backflow tests.

Action - Performed new service line inspections.

Action – Cross-training Shawn Knebusch for full certification in the Wet Chemistry Laboratory.

Action – Cross-training Terrance Baideme for operational certification in the Wet Chemistry Laboratory.

Action – George P. Ginnis, Frank Mckeon, Tino Valjean, and Danine Schultz attended AWWA seminar at Berea WTP concerning blue green algae.

5. Water Distribution and Water Plant - Improve Management/Labor relations (Communication)

Action - Meet with employees every morning.

Action - Monthly safety meeting with employees

Action - Susan Fuerst attended all Lake County Safety Council meetings and meets with superintendent on regular basis concerning all matters regarding the Lake County Safety Council.

Action- Worked with the employees to test the man-down device at the Painesville Water Plant to ensure employee's safety.

Action- Medical Mutual had discussion for all employees for new health benefits beginning January 1, 2012.



**DIVISION OF WATER
OCTOBER 2011 REPORT**
ALL FLOW IN MILLION GALLONS

	Last Year To Date	This Year To Date	This Month Last Year	This Month
Finished Water Pumped to System (Million Gallons)	1,090.80	819.74	97.846	88.39
Water Purchased from AquaOhio	7.258	6.683	0.848	1.169
Water Sold to AquaOhio	3.860	0.088	0.000	0.025
Chestnut Pump Station	275.000	254.695	21.000	22.850
Crile Pump Station	137.510	142.372	10.910	11.360
Hermitage Pump Station	1.441	0.771	0.067	0.123
New Service City	29	20	2	1
New Service Outside City	24	30	4	2
Abandon Service City	14	6	0	0
Abandon Service Outside City	0	2	0	0
Service Line Replaced With Copper Or Plastic	3	5-C.	0	1
Footage New Main Installed City	PUB.6,235' OF 8" PVC PUB.11' OF 6" PVC PUB.352.5' OF 4" PVC PUB. 7' OF 4" D.I.	1,042' Of 8" PVC	0	1,042' Of 8" PVC
Footage New Main Installed Out of City	0	PRI.-770' of 8" PVC PRI.- 140' of 6" PVC PRI.-94' of 8" D.I. PRI.-132' of 4" D.I.	0	PRI.-575' of 8" PVC PRI. 132' of 4" D.I.
Hydrants Repaired	20	85	0	48
New Hydrants installed	4	2	0	0
Inspector Hours billed	0	130 Reg. 16 O.T.	0	107 Reg. 14.5 O.T.
Inspector Hours worked	141 Reg. Hrs. 12 Hrs. O.T. W. Jackson	135 Reg. 16 O.T.	0	112 Reg. 14.5 O.T.

10-27-11, Split on 24" X 24" Tee Williams Rd.
10-28-11, Cut out 14" X 14" Tee and bypass on Williams Rd.

(Pain. Town.)
(Pain. Town.)

Miscellaneous:

10-4-11, Repaired 3/4" copper service line at 117 Sanford St.
10-5-11, Repaired 3/4" brass telesco coupling at 805 Mentor Ave.
10-14-11, Locate vault at 6688 Auburn Rd.
10-17-11, Renew 3/4" Galvanize line with Copper at 372 Liberty St.

(City)
(City)
(Concord)
(City)

20 Backflow Tested
6 Service line inspections
172 O.U.P.S Tickets completed
0 Pool Slips

George P. Ginnis
Mark Connor
Frank McKeon

Water Division Superintendent
Water Distribution Supervisor
Water Treatment Plant Chief Operator

CITY OF PAINESVILLE WATER PLANT MONTHLY REPORT

October 2011

Pumpage, Turbidity & Chemical Use

Pumpage (MG)

Finished Flow	100.30
Raw Flow	95.36
Wash Water	1.37
Plant Usage Service water	3.46

Turbidity

Average Raw	43.60
Average Applied	1.13
Average Tap	0.10

Chemicals Use (LBS)

Alum	24732
Zinc OrthoPhosphate	2223
Potassium Permanganat	171.5
Fluoride	1096
Chlorine	2488
Cationic Polymer	8.67
Caustic *	6699

Chemical Use Dosage (mg/L)

Alum	31.10
Zinc OrthoPhosphate	2.80
Potassium Permanganat	0.22
Fluoride	0.84
Chlorine	3.13
Cationic Polymer	0.01
Caustic *	8.42



Chemical	Price / lb	Total Chem Cost	Cost / MG
Alum	\$ 0.14905	\$ 3,686.30	\$ 38.66
Zinc OrthoPhosphate	\$ 0.5570	\$ 1,238.21	\$ 12.98
Potassium Permanganate	\$ 2.9800	\$ 511.07	\$ 5.36
Fluoride 65%	\$ 0.4250	\$ 465.80	\$ 4.88
Chlorine	\$ 0.2390	\$ 594.63	\$ 6.24
Cationic Polymer	\$ 0.5600	\$ 4.86	\$ 0.05
Caustic *	\$ 0.1800	\$ 1,205.82	\$ 12.64
TOTAL	\$ 5.09	\$ 7,706.69	\$ 80.81

AVERAGE CHEMICAL COST/MG FINNISHED \$ 76.83
 AVERAGE CHEMICAL COST/MG \$ 80.81
 AVERAGE DAILY CHEMICAL COST \$ 248.60
 TOTAL CHEMICAL COST FOR THE MONTH \$ 7,706.69

Electrical Usage Per Million Gallons High Service

KW'S/MG 1662.89
 MAX DEMAND 270.00
 COST / MG \$177.25