



PAINESVILLE WATER DIVISION

NOVEMBER 2011

OVERVIEW AND HIGHLIGHT

The water system had one water main break for the month of November, 2011. A 12" cast iron water main at 830 E. Erie St. in the City of Painesville split; the repair was made with an 8' long piece of new 12" ductile iron pipe.

There were five hydrants repaired in the Painesville Water Division's system for the month of November. Two were located in the City of Painesville and the other three were located in Concord Township.

There were seven new service lines also installed in the month of November. Five were in Concord Township, one in the City of Painesville, and the final one was installed in Painesville Township. Additionally, there was one copper service line replaced in Concord Township.

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

Actions- Spoke with different representatives of the Ohio EPA on several occasions.

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

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- The Ohio EPA conducted an on-site laboratory survey by Representative Charles Valsulka, and no deviations were noted in his report.

Action- The Ohio EPA also conducted an on-site field survey by Representative Stephen Bopple and no deviations were noted in his report.

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- Performed Preventative Maintenance on Plant Generator to ensure efficient operations.

Action- Replaced older chlorine piping in chlorine room to avoid potential dosing issues or severe health hazards.

Action- Re-installed #3 High Service Motor with the aid of the Painesville Electric Division. The cost saving measure

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 –Shawn Knebusch passed full certification in the Wet Chemistry Laboratory.

Action –Terrance Baideme passed operational certification in the Wet Chemistry Laboratory. Additionally, all employees who tested in the Wet Chemistry Laboratory passed to receive their Ohio EPA Certification.

Action – Water Division employees attended a chlorine safety class held at the treatment plant

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.

CITY OF PAINESVILLE WATER PLANT MONTHLY REPORT

November 2011

Pumpage, Turbidity & Chemical Use

	<u>Pumpage (MG)</u>
Finished Flow	84.00
Raw Flow	90.06
Wash Water	1.02
Plant Usage Service water	3.36

Turbidity

Average Raw	39.10
Average Applied	1.13
Average Tap	0.10

Chemicals Use (LBS)

Alum	20471
Zinc OrthoPhosphate	1959
Potassium Permanganat	91
Fluoride	985
Chlorine	2109
Cationic Polymer	45
Caustic *	3762

Chemical Use Dosage (mg/L)

Alum	27.26
Zinc OrthoPhosphate	2.61
Potassium Permanganat	0.12
Fluoride	0.80
Chlorine	2.81
Cationic Polymer	0.06
Caustic *	5.01



Chemical	Price / lb	Total Chem Cost	Cost / MG
Alum	\$ 0.14905	\$ 3,051.20	\$ 33.88
Zinc OrthoPhosphate	\$ 0.5570	\$ 1,091.16	\$ 12.12
Potassium Permanganate	\$ 2.9800	\$ 271.18	\$ 3.01
Fluoride 65%	\$ 0.4250	\$ 418.63	\$ 4.65
Chlorine	\$ 0.2390	\$ 504.05	\$ 5.60
Cationic Polymer	\$ 0.5600	\$ 25.20	\$ 0.28
Caustic *	\$ 0.1800	\$ 677.16	\$ 7.52
TOTAL	\$ 5.09	\$ 6,038.58	\$ 67.05

AVERAGE CHEMICAL COST/MG FINISHED \$ 71.89
 AVERAGE CHEMICAL COST/MG \$ 67.05
 AVERAGE DAILY CHEMICAL COST \$ 201.29
 TOTAL CHEMICAL COST FOR THE MONTH \$ 6,038.58

Electrical Usage Per Million Gallons High Service

KW'S/MG 1711.33
 MAX DEMAND 317.40
 COST / MG \$168.92



DIVISION OF WATER
NOVEMBER 2011 REPORT
ALL FLOW IN MILLION GALLONS

Finished Water Pumped to System
(Million Gallons)
Water Purchased from AquaOhio
Water Sold to AquaOhio
Chestnut Pump Station
Crile Pump Station
Hermitage Pump Station

	Last Year To Date	This Year To Date	This Month Last Year	This Month
	1,202.177	901.23	90.924	81.49
	11.601	12.407	1.064	1.040
	5.690	0.102	2.244	0.014
	302.947	277.205	21.968	22.510
	192.090	153.026	8.710	10.654
	2.509	0.882	0.105	0.111
New Service City	41	21	2	1
New Service Outside City	42	36	4	6
Abandon Service City	5	6	0	0
Abandon Service Outside City	0	2	0	0
Service Line Replaced With Copper Or Plastic	1-P, 11-C	6-C.	1	1
Footage New Main Installed City	Pub. 155' of 6" PVC Pub. 710' of 8" PVC	1,042' Of 8" PVC	0	0
Footage New Main Installed Out of City	PRI.-1,517' of 8" D.I. Pri. 247' of 8" PVC PUB.-4,070' of 8" PVC Pub.- 25' of 8" D.I.	PRI.-770' of 8" PVC PRI.-140' of 6" PVC PRI.-94' of 8" D.I. PRI.-132' of 4" D.I.	Pri. - 151' of 8" D.I. Pub.- 25' of 8" D.I.	0
Hydrants Repaired	71	90	3	5
New Hydrants installed	13	2	0	0
Inspector Hours billed	489 Reg. 78 O.T.	135 Reg. 16 O.T.	66 Reg. O.T.	15 5
Inspector Hours worked	246 Reg. 27 O.T.	135 Reg. 16 O.T.	4	0

Water Main Breaks:
 11-18-11- 8' Split on 12" C.I. main at 830 E. Erie St.

(City)

Miscellaneous:

11-17-11- Renew 3/4" service at 7329 Pain. Ravenna Rd.

(Concord)

21 Backflow Tested
3 Service line Inspections
161 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