



PAINESVILLE WATER DIVISION

June 2012

OVERVIEW AND HIGHLIGHT

The Painesville Water Division had five water main breaks in the month of June 2012. Two of the breaks were in Painesville City, two were in Concord Township, and one was in Painesville Township. The breaks in the City of Painesville were at 830 E. Erie St. on a 12" cast iron main, which broke with an 11' long split due to a water hammer. The second break was a circle break on a 10" cast iron main on S. Park Pl. at the intersection of Liberty St. Both of these mains were installed in 1955. The breaks in Concord Township were at 7137 Pinehill Rd. and 7301 Pinehill Rd. These breaks on the 28-year-old 8" ductile iron main were holes in the pipe due to corrosion. There was also a break on a 6" cast iron main, which is 44 years old, at 442 Lakeshore Blvd. This break was a 54" split on the pipe and was due to a pressure hammer in the system. Another break occurred on a 6" cast iron private fire line at Extrudex located at 310 Figgie Dr.

The City of Painesville Water Division repaired ten hydrants and installed seven new services. Two new service lines were installed in the City of Painesville and five additional service lines were installed 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- Spoke with different Ohio EPA representatives on multiple 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.

Action – Prepared the current Lead and Copper testing plan to ensure compliance for 2012.

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 – Replaced filter lamps and repaired level sensors on filters.

Action- Re-installed packing in low service pump 4 and repaired filter 10 filter effluent control.

Action- Continuing to cross-train employees Terrance Baideme and Carmen Campana as assistant engineering technicians.

Action- Began cross-training newly hired employee Ryan Tiedman as an operator/maintenance technician.

Action- Made minor repair to filter 7 surface sweep valve.

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 – Had discussions about inspecting and repairing the two raw water intakes with Underwater Marine Contractors.

Action- Repaired raw screen leak, met with FCX regarding repairs to high service 5 valve.

Action- Cleaned and made minor repairs to the backwash pump including the Differential Pressure Transmitter Cell supply line.

Action- Performed a Cl₂ room inspection to ensure safe efficient operations

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 and received backflow tests from customers.

Action - Performed new service line inspections.

Action - Monthly safety meetings with employees.

Action- Reviewing waterline projects and performing routine inspections on these projects.

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

Action - Meet with employees every morning.

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 – Had a safety meeting and a walk-through of the water treatment facility with several members of the Mentor Fire Department.



DIVISION OF WATER
June 2012 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
	478.06	488.658	110.126	140.427
	6.576	7.892	1.235	1.258
	0.006	0.000	0.000	0.000
	143.931	191.382	33.075	64.502
	76.196	112.534	19.167	36.968
	0.561	1.9448	0.226	0.705
New Service City	15	16	4	2
New Service Outside City	15	17	2	5
Abandon Service City	3	3	2	0
Abandon Service Outside City	2	0	1	0
Service Line Replaced With Copper Or Plastic	3-C.	3-C	0	0
Footage New Main Installed City	0	<small>3,744' of 8" C909 37' of 6" C909</small>	0	0
Footage New Main Installed Out of City	0	0	0	0
Hydrants Repaired	20	32	6	10
New Hydrants installed	2	3	0	0

Water Main Breaks:

- 6-15-12 - 11' Split on 12" C.I. main at 830 E. Erie St.
- 6-15-12 - Hole on 8" D.I. main at 7137 Pinehill Dr.
- 6-22-12 - Hole on 8" D.I. main at 7301 Pinehill Dr.
- 6-25-12 - Circle break on 10" C.I. main on S. Park at Liberty St.
- 6-25-12 - 54" Split on 6" C.I. main at 442 Lakeshore Blvd.
- 6-25-12 - Hole on 6" C.I. private fire line at 310 Figgie Dr

City
Concord
Concord
City
Pain. Town.
City

Miscellaneous:

- Began interior painting of Rt. 86 Tank
- Reviewed distribution systems hydraulics for flow restrictions
- Discuss and plan distribution system changes and improvements
- Walked easements for verification of no leaks
- Installed 7 new service lines
- Repaired 10 Hydrants

74 Backflow Tested
9 Service line inspections
148 O.U.P.S Tickets completed
39 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

JUNE 2012

Pumpage, Turbidity & Chemical Use

Pumpage (MG)

Finished Flow 110.13
 Raw Flow 118.06
 Wash Water 3.39
 Plant Usage Service water 4.24

Turbidity

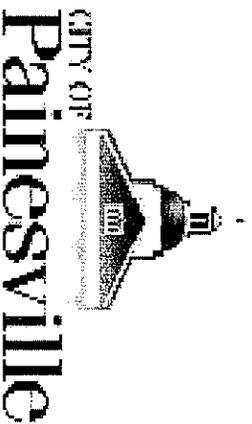
Average Raw 14.90
 Average Applied 1.17
 Average Tap 0.10

Chemicals Use (LBS)

Alum 18684
 Zinc OrthoPhosphate 2825.55
 Potassium Permanganat 202.5
 Fluoride 65% 1276
 Chlorine 3648.5
 Cationic Polymer 73.7
 Caustic * 682

Chemical Use Dosage (mg/L)

Alum 17.53
 Zinc OrthoPhosphate 2.85
 Potassium Permanganat 0.19
 Fluoride 65% 0.81
 Chlorine 3.06
 Cationic Polymer 0.00
 Caustic * 0.15



Chemical	Price / lb	Total Chem Cost	Cost / MG
Alum	\$ 0.14905	\$ 2,784.85	\$ 23.59
Zinc OrthoPhosphate	\$ 0.5570	\$ 1,573.83	\$ 13.33
Potassium Permanganate	\$ 2.3500	\$ 475.88	\$ 4.03
Fluoride 65%	\$ 0.4250	\$ 542.30	\$ 4.59
Chlorine	\$ 0.2390	\$ 871.99	\$ 7.39
Cationic Polymer	\$ 0.5600	\$ 41.27	\$ 0.35
Caustic *	\$ 0.1800	\$ 122.76	\$ 1.04
TOTAL	\$ 4.46	\$ 6,412.88	\$ 54.32

AVERAGE CHEMICAL COST/MG FINISHED \$ 58.23
 AVERAGE CHEMICAL COST/MG \$ 54.32
 AVERAGE DAILY CHEMICAL COST \$ 213.76
 TOTAL CHEMICAL COST FOR THE MONTH \$ 6,412.88