



PAINESVILLE WATER DIVISION

February 2012

OVERVIEW AND HIGHLIGHT

The Painesville Water System had four water main breaks in the City of Painesville for the month of February 2012. A 58 year old 6" cast iron main on Lucille Dr. was discovered with two circle breaks, which were caused by corrosion. Two repair clamps were used to make the repairs at 382 and 366 Lucille Dr. At the intersection of Chester St. and Lawnview Dr. there was a circle break on 18" cast iron main. The water break on the 81 year old main located on Chester St. was caused by corrosion. Additionally, the 51 year old 6" cast iron pipe at 190 Tiber Dr. simply required replacement of the flange bolts on the main that were corroded.

There was one hydrant replaced in the City of Painesville for the month of February. The hydrant was located on the 155 Sanford Ave.

There were also two new service lines installed in the month of February. The two service lines installed were in Concord Township. The water distribution abandoned one galvanized 3/4" service which was leaking in the City of Painesville at 320 S. State St.

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 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 –Completed the 2011 Consumer Confidence Report.

Action – Performed Jar tests to optimize chemical dosages.

Action- Cleaned up wiring for SCADA and aided in the installation of a minor upgrade of the SCADA panel that records data such as: Applied Turbidity, East Basin Turbidity, West Basin Turbidity, High Service Flow, Clearwell Level, and Chlorine Levels.

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

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 - Cleaned the North and South raw wells.

Action- Set lift and installed packing on #2 low service pump.

Action- Repaired vacuum primer pump on high service pumps (contacts stuck).

Action- Cleaned rotometer #2, set up and calibrated hose pump for caustic.

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 –Conducted plant tour for 6th grade class.

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 - 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- Performed routine maintenance and flushed eye wash and shower stations



**DIVISION OF WATER
FEBRUARY 2012 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) | 190.14 | 173.49 | 95.141 | 84.659 |
| Water Purchased from AquaOhio | 2.228 | 2.368 | 1.010 | 1.126 |
| Water Sold to AquaOhio | 0.005 | 0.000 | 0.005 | 0.000 |
| Chestnut Pump Station | 43.240 | 45.056 | 19.300 | 22.474 |
| Crile Pump Station | 20.569 | 25.026 | 10.220 | 12.775 |
| Hermitage Pump Station | 0.152 | 0.1756 | 0.075 | 0.163 |
| New Service City | 4 | 0 | 2 | 0 |
| New Service Outside City | 4 | 4 | 3 | 2 |
| Abandon Service City | 0 | 2 | 0 | 1 |
| Abandon Service Outside City | 0 | 0 | 0 | 0 |
| Service Line Replaced With Copper Or Plastic | 1-C. | 0 | 1-C. | 0 |
| Footage New Main Installed City | 0 | <small>3,279' of 8" C909 37' of 6" C909</small> | 0 | <small>3,279' of 8" C909 37' of 6" C909</small> |
| Footage New Main Installed Out of City | 0 | 0 | 0 | 0 |
| Hydrants Repaired | 4 | 4 | 2 | 1 |
| New Hydrants installed | 0 | 1 | 0 | 1 |

Water Main Breaks:

| | |
|---|---------------|
| 2-14-12 - Replace flange bolts at 190 Tiber Dr. | (City) |
| 2-16-12 - Circle break on 6" C.I. main at 382 Lucille Dr. | (City) |
| 2-16-12 - Circle break on 18" C.I. main on Chester St. at Lawnview Dr. | (City) |
| 2-16-12 - Circle break on 6" C.I. main at 366 Lucille Dr. | (City) |

Miscellaneous:

| | |
|---|---------------|
| 2-2-12 - Verified interconnects off and read meters | |
| 2-1-12 - Abandon 3/4" Galvanize service at 320 S. State St. | (City) |
| 2-17-12 - Replace bolts on watch valve at 724 Cedarbrook Dr. | (City) |

18 Backflow Tested
4 Service line inspections
85 O.U.P.S Tickets completed

| | |
|-------------------------|---|
| George P. Ginnis | Water Division Superintendent |
| Mark Connor | Water Distribution Supervisor |
| Frank Mckeon | Water Treatment Plant Chief Operator |

Pumpage, Turbidity & Chemical Use

Pumpage (MG)

Finished Flow 89.55
 Raw Flow 84.66
 Wash Water 1.24
 Plant Usage Service water 3.43

Turbidity

Average Raw 42.00
 Average Applied 1.50
 Average Tap 0.06

Chemicals Use (LBS)

Alum 21384
 Zinc OrthoPhosphate 1801
 Potassium Permanganat 0
 Fluoride 952
 Chlorine 1796
 Cationic Polymer 67
 Caustic * 4202

Chemical Use Dosage (mg/L)

Alum 30.29
 Zinc OrthoPhosphate 2.55
 Potassium Permanganat 0.00
 Fluoride 65% 0.82
 Chlorine 2.54
 Cationic Polymer 0.09
 Caustic * 5.95

FEBRUARY 2012



| Chemical | Price / lb | Total Chem Cost | Cost / MG |
|------------------------|----------------|--------------------|-----------------|
| Alum | \$ 0.14905 | \$ 3,187.29 | \$ 37.65 |
| Zinc OrthoPhosphate | \$ 0.5570 | \$ 1,003.16 | \$ 11.85 |
| Potassium Permanganate | \$ 2.9800 | \$ - | \$ - |
| Fluoride 65% | \$ 0.4250 | \$ 404.60 | \$ 4.78 |
| Chlorine | \$ 0.2390 | \$ 429.24 | \$ 5.07 |
| Cationic Polymer | \$ 0.5600 | \$ 37.52 | \$ 0.44 |
| Caustic * | \$ 0.4200 | \$ 1,764.84 | \$ 20.85 |
| TOTAL | \$ 5.33 | \$ 6,826.65 | \$ 80.64 |

AVERAGE CHEMICAL COST/MG FINNISHED \$ 76.23
 AVERAGE CHEMICAL COST/MG \$ 80.64
 AVERAGE DAILY CHEMICAL COST \$ 243.81
 TOTAL CHEMICAL COST FOR THE MONTH \$ 6,826.65