



PAINESVILLE WATER DIVISION

June 2011

OVERVIEW AND HIGHLIGHT

The Water Division repaired two main breaks in the month of June. On June 7, 2011 the 6" cast iron water main at 812 Marshall Dr. was discovered with a hole in the pipe created by corrosion. A repair clamp was placed over the hole to repair the fifty-eight year old main. On June 10, 2011 a 6" cast iron water main at 192 Tiber Dr. was split 3" due to a water hammer in the system. A repair clamp was placed over the split to repair the fifty year old main line. Additionally, there were six services installed for the month of June. Four of them were in the City of Painesville and two were in Concord Township.

There were six hydrants repaired in the system in the month of June. Four of the hydrants repaired were in the City of Painesville, and two of the hydrants were in Concord Township.

The road repairs and tree lawn restorations from the work performed during the winter months have been completed to date.

Trained – George Ginnis was recertified in Backflow Prevention by the Operator Training Committee of Ohio (OTCO)

Trained - Terry Baideme on the testing of 5/8" and 1" water meters

Goals achieved

Water Distribution #1 and Water Plant Goal #1- To maintain a safe, reliable and high quality water supply to our customers/Optimize Water Plant operations

Actions - All breaks were repaired

Actions - Continued Uni-Directional flushing

Actions – Continue abandoning no longer needed service lines

Actions – Continue monitoring Elm St. water quality

Actions – Continued to perform Jar Tests to ensure correct coagulant dosages and coagulant aids are efficiently dosed.

Actions – Began to dose polymer at different location after jar tests indicated more efficiency in plant operations by altering chemical application point.

Water Distribution #2- Optimize system operations

Actions – Installed Variable Speed Drive at Chestnut Pump Station to enable enhanced control of the water in Crile Road Tank and save money in electrical costs.

Actions - Distribution employees working in Lab and Plant operations

Actions - 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.

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

Water Distribution #3 and Water Plant Goal #4 – Responsiveness to the community/Employee relations and communications

Action - Meet with employees every morning

Water Distribution Goal #4 and Water Plant Goal #5 - Provide the highest qualified, professional workforce/Responsiveness to the community

Action - Requested from customers and received Backflow tests

Action - Performed new service line inspections

Action - Susan Fuerst attended all Lake County Safety Council meetings

Action - Verifying pool slips

Water Plant Goal #2- Good working relationship with the EPA and being in compliance with all regulations.

Action – Had discussion with EPA representative Stephen Bopple.

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

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

Water Plant Goal #6 - Organize Plant procedures in the laboratory, maintenance and operations.

Action - Performed weekly chemical analysis of Elm St.

Action - Monthly laboratory quality controls on all laboratory equipment.

Action – Performed inspection of Chlorine room and tested all equipment operable.

- Action – Performed general maintenance on generator such as oil change, filter replacement and operated for one hour period.



DIVISION OF WATER
June 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
	605.41	478.06	121.29	110.126
	5.748	4.211	1.185	1.235
	3.331	0.005	0.088	0.000
	142.000	143.931	34.000	33.075
	78.030	76.196	22.030	19.167
	1.070	0.561	0.371	0.226
New Service City	26	15	7	4
New Service Outside City	15	15	2	2
Abandon Service City	2	3	0	2
Abandon Service Outside City	0	2	0	1
Service Line Replaced With Copper Or Plastic	1-P, 10-C	3-C.	8	0
Footage New Main Installed City	155' of 6" PVC	0	155' of 6" PVC	0
Footage New Main Installed Out of City	PRL-775' of 8" D.I. PUB-4,070' of 8" PVC	0	PUB-3,050' of 8" PVC	0
Hydrants Repaired	23	20	11	6
New Hydrants installed	4	2	2	0
Inspector Hours billed	357 Reg. 48 O.T.	0	0	0
Inspector Hours worked	115 Reg. 7.5 O.T.	0	0	0

Water Main Breaks:

6-7-11 - Hole in 6" C.I. pipe at 812 Marshall Dr.
6-10-11 - 3" Split on 6" C.I. pipe at 192 Tiber Dr.

City
City

Miscellaneous:

Abandone 3/4" Galv. Service at 457 E. Erie St.
Abandone 3/4" copper Service at 7091 Auburn Rd.
Abandone 3/4" Galv. Service at 384 Bank St.
Continued Uni-directional flushing
Installed 6 new service lines
Repaired 6 Hydrants

City
Concord
City

80 Backflow Tested

8 Service line inspections
105 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 2011



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 18.98
 Zinc OrthoPhosphate 2.87
 Potassium Permanganat 0.21
 Fluoride 65% 0.79
 Chlorine 3.71
 Cationic Polymer 0.07
 Caustic * 0.69

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

Electrical Usage Per Million Gallons High Service

KW'S/MG 1528.19
 MAX DEMAND 340.50
 COST / MG \$169.88