

2009

WATER DISTRIBUTION ANNUAL REPORT



CITY OF FINDLAY WATER DISTRIBUTION DEPARTMENT

136 N. BLANCHARD ST.

FINDLAY, OHIO 45840

The City of Findlay Water Distribution Department had 14 full time employees at the end of 2009.

Employees are:

- 1 Maintenance Supervisor
- 1 Secretary
- 1 Waterline Maintenance Worker IV
- 2 Waterline Maintenance Worker III
- 7 Waterline Maintenance Worker II
- 1 Waterline Maintenance Technician
- 1 Waterline Maintenance Technician Asst.

Collectively, the Water Distribution Department totals 264 years of service.

***Members of the Water Distribution staff are:***

Steve Hill-Maintenance Supervisor

Betty Jones-Secretary

Mike Courtney-Waterline Maintenance Worker IV

John Blide-Waterline Maintenance Worker III

Marty Hough-Waterline Maintenance Worker II

Tim Fryinger- Waterline Maintenance Technician

Jeff Kolhoff-Waterline Maintenance Worker II

Ken Paul-Waterline Maintenance Worker II

Jeff Betts-Waterline Maintenance Worker III

Larry Pocock-Waterline Maintenance Worker II

Robert Wagner-Waterline Maintenance Technician Asst.

Jerry Peterson-Waterline Maintenance Worker II

Bryan Miller-Waterline Maintenance Worker II

Mike Rader- Waterline Maintenance Worker II

## ***DEPARTMENT RESPONSIBILITIES***

At the end of 2009 the City of Findlay's Water Distribution Department was responsible for 306.2 miles of city water main. There are 18,974 water service connections, meter settings, and 2,357 fire hydrants.

The department also documents all activities handled including major activities such as: installation of water lines, water taps, service line renewals, main break repairs, hydrant repairs, locating of water lines for other utilities and contractors, repairs to streets, driveways, and sidewalks damaged by our activities, inspections of water service line installations, collection of bacteria samples for new water line installations and leak detection, review of all proposed construction plans, to make sure the proposed water lines are in compliance with Ohio EPA rules and regulations and AWWA Standards, and maintenance and minor repairs to the department's vehicles and equipment.

## ***NEW WATER SERVICE CONNECTIONS***



From 1990 through 2009, over a twenty one (21) year period, we have added 5,012 new water service connections to our system.

1989	140	2000	403
1990	186	2001	293
1991	187	2002	316
1992	162	2003	242
1993	209	2004	275
1994	272	2005	271
1995	245	2006	234
1996	268	2007	145
1997	285	2008	107
1998	346	2009	66
1999	360		

For the year 2009, 49 – ¾ inch services were installed taking 494 man-hours and 87 backhoe hours, 7 – 1 inch services were installed taking 112 man-hours and 12 backhoe hours, 3 - 1 ½ inch service was installed taking 66 man-hours and 7 backhoe hours, 7 - 2 inches services were installed taking 123 man-hours and 15 backhoe hours. There was another 6 additional main line taps, 1 – 4 inch, 4 – 6 inch, and 1 – 8” taps, requiring 63 man-hours and 10 backhoe hours.

## **WATER SERVICE RENEWALS**



A total of 81 water services were renewed taking 1007 man-hours and 149 backhoe hours. There were 61 – ¾ inch services, 12 – 1 inch services, 1 -- 1-1/2” and 3 – 2 inch services renewed. This was in conjunction with the annual repaving and water line replacement projects.

From 1990 through 2009 – 3,531 water services have been renewed for an average of 185 services being renewed per year.

## **LINE LOCATING**

Combined with the leak-locating program is the line locating program. This program is for locating our water lines for other utilities, contractors, developers and consultants.

We are a member of the Ohio Utilities Protection Service. They send us locates via an OUPS printer and we in turn notify other city departments as needed.

Growth in locates from 1989 to 2009:

1989	222	2000	6725
1990	784	2001	5817
1991	1217	2002	5960
1992	2072	2003	5146
1993	2446	2004	6079
1994	2112	2005	6506
1995	3162	2006	6748
1996	3528	2007	5897
1997	4070	2008	5713
1998	4410	2009	5162
1999	3829		

This figures out to be 20.5 locates per day for the 251 working days in a year. Along with line locating, there is also the collection of bacteria samples for testing of new water main installations. There were 80 bacteria samples collected this year.

## **METER SHOP REPAIRS AND TESTING**

Tested	62
Repaired	5
Junked	8231

## ***FIRE HYDRANT FLUSHING***



The Water Dist. Department has taken over the flushing, tagging, and pumping of hydrants completely as of 2007. We were able to construct three truck mounted flushing units that allow us to open the hydrant completely to allow the needed velocity to properly flush the main line. Without these units, water would be flushed clear across the street potentially causing motorists harm, as it was experienced in the past. Also, since we have taken over the hydrant flushing, we have found that we can properly maintain the hydrant while we are there, saving time in return trips therefore saving money.

## ***METER CHANGES***

The Water Distribution Department changed a total of 3026 meters in 2009 for use with the new meter reading system. These activities took 1115 hours of labor to accomplish.

## ***GOALS FOR 2010***

Continue with the new Badger Meter Galaxy meter reading system by changing meters and meter covers.

Paint as many hydrants as possible.

Continue to update all waterline maps in house for future reference for GIS and EPA Net 2 for water hydraulics.

Start a valve, locate and exercise program.

Return to the annual large meter test and repair program.

Continue the leak detection survey.

Over see an ongoing corrosion control project being done through the Engineering Department.

I would like to thank the employees of the Water Distribution Staff, who work diligently in meeting the deadlines of this department.

Respectfully submitted,

Steven D. Hill  
Water Distribution Supervisor

**LIST OF DEPARTMENTAL ACTIVITIES PERFORMED**

Cold Mix repairs temporary patch to street excavations 24 different sites	Man-hours	30	Backhoe Hrs.	1
23 gate box repairs	Man-hours	53	Backhoe Hrs.	2
16 gate valves repaired	Man-hours	170	Backhoe Hrs.	19
16 fire hydrants installed or replaced	Man hours	236	Backhoe Hrs.	35
34 fire hydrants repaired	Man-hours	186	Backhoe Hrs.	15
2 fire hydrants checked for damage	Man hours	2		
4 customers new water service line installation inspections	Man hours	1		
116 meter lids replaced	Man hours	156		
78 broken mains varying in sizes from 1 inch and up. Includes regular hours, overtime hours and call out stand-by hours	Man-hours	910	Backhoe Hrs.	138
118 leaks checked out	Man-hours	175	Backhoe Hrs.	14
15 meters set in	Man-hours	53		
23 meter reductions	Man-hours	15		
5 meters taken out	Man-hours	4		
meters changed	Man-hours			
12 pressure checks	Man-hours	12		
20 turn on service	Man-hours	17		
73 turn off for repairs regular hours, Overtime hours and call out stand-by	Man-hours	60		
26 services killed	Man-hours	138	Backhoe Hrs.	28
15 rusty water complaints	Man-hours	13		
12 service lines repairs	Man-hours	120	Backhoe Hrs.	15
11 settings lowered	Man-hours	13		
10 settings moved	Man-hours	100	Backhoe Hrs.	17

8 settings raised	Man-hours	14		
115 settings repaired	Man-hours	334	Backhoe Hrs.	47
99 no water calls	Man-hours	99	Welder	8
67 nipples installed	Man-hours	99		
30 Temporary meter set and removed	Man-hours	43		

***MISCELLANEOUS JOBS***

There were 91 different miscellaneous jobs done by water distribution for a total of 397 hours with 20 hoe hours, 1 vactor hour, and 1 hour dump truck: Picked up barricades, stoned holes, locate shut off for plumber, check holes, met with many contractors and customers over water lines, set up arrow boards for Police Department for parades, set fishing docks, dig out holes for Street Department to hot patch, work gate valves for contractors installing new main lines, and many other miscellaneous jobs too numerous to mention