

2016

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 2016.

Employees are:

- 1 Maintenance Supervisor
- 1 Secretary
- 1 Waterline Maintenance Worker III
- 3 Waterline Maintenance Workers III
- 3 Waterline Maintenance Workers II
- 3 Waterline Maintenance Workers I
- 1 Waterline Maintenance Technician
- 1 Waterline Maintenance Technician Assistant

Collectively, the Water Distribution Department totals 201 years of service.

Members of the Water Distribution staff are:

Jeff Betts-Maintenance Supervisor

Betty Jones-Administrative Assistant

Jeff Kolhoff-Waterline Maintenance Worker III

Ken Paul-Waterline Maintenance Worker III

Bob Wagner-Waterline Maintenance Worker III

Bryan Miller-Waterline Maintenance Technician

Jordan Endicott- Waterline Maintenance Worker III

Jason Ruhlen-Waterline Maintenance Technician Assistant

Michael Knight-Waterline Maintenance Worker II

Travis Bohn- Waterline Maintenance Worker II

Jacob Rayle- Waterline Maintenance Worker II

Joe Francis- Waterline Maintenance Worker I

Cameron Freed- Waterline Worker I

Ryan Cates- Waterline Worker I

DEPARTMENT RESPONSIBILITIES

At the end of 2016 the City of Findlay's Water Distribution Department was responsible for 312.03 miles of city water main. There are 19,051 water service connections, meter settings, and 2,471 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 1991 through 2016, over a twenty five (25) year period, we have added 5,378 new water service connections to our system.

1991	187	2004	275
1992	162	2005	271
1993	209	2006	234
1994	272	2007	145
1995	245	2008	107
1996	268	2009	66
1997	285	2010	79
1998	346	2011	80
1999	360	2012	91
2000	403	2013	86
2001	293	2014	127
2002	316	2015	99
2003	242	2016	130

For the year 2016, 106 – ¾ inch services were installed taking 1256 man-hours and 162.25 backhoe hours, 17 – 1 inch services were installed taking 223 man-hours and 23.50 backhoe hours, 7 - 2 inch service was installed taking 127.50 man-hours, 1 vactor hour and 13 backhoe hours. There was another 22 additional main line taps, 6 – 4 inch, 10 – 6 inch, 6 – 8” inch services requiring 236 man-hours and 16 backhoe hours.

WATER SERVICE RENEWALS



A total of 146 water services were renewed taking 1409.50 man-hours and 202 backhoe hours. There were 130 – ¾ inch services, 16 – 1 inch service.

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 to us via email on WebTMS we in turn notify other city departments as needed.

Growth in locates from 1991 to 2016:

1991	1217	2004	6079
1992	2072	2005	6506
1993	2446	2006	6748
1994	2112	2007	5897
1995	3162	2008	5713
1996	3528	2009	5162
1997	4070	2010	5225
1998	4410	2011	5956
1999	3829	2012	6182
2000	6725	2013	6758
2001	5817	2014	7036
2002	5960	2015	7010
2003	5146	2016	7030

This figures out to be 28 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 42 bacteria samples collected this year.

METER SHOP REPAIRS, TESTING, Field Testing large Meters

Tested	220	
Repaired	142	
Sent Back	113	
Large Meters	21	Man-hours 106

FIRE HYDRANT FLUSHING



The Water Dist. Department performs all of the flushing, tagging, and pumping of hydrants in our system. We constructed 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.

GOALS FOR 2017

Continue maintenance of the new Badger Meter Galaxy meter reading system.

Continue to update all waterline maps in house for future reference for GIS and EPA lead service line mapping.

Start a valve, locate and exercise program.

Continue the annual large meter test and repair program.

Continue the leak detection survey.

Complete small waterline Capital improvement projects.

I would like to thank the employees of the Water Distribution Staff, who work diligently in providing clean safe drinking water. Along with helping in snow removal our Water Distribution employees provide an excellent service to our community. Thank you to our Administrative Assistant, Maintenance Workers and Maintenance Technician.

Thank You,
Jeff Betts
Water Distribution Supervisor

LIST OF DEPARTMENTAL ACTIVITIES PERFORMED

Cold Mix repairs temporary patch to street excavations 17 different sites	Man-hours	26.50	Backhoe Hrs.	4
6 gates installed	Man-hours	150	Backhoe Hrs.	21.50
39 gate box repairs	Man-hours	113.50	Backhoe Hrs. Vactor Hrs.	2.50 28.00
19 gate valves repaired	Man-hours	309	Backhoe Hrs.	30.50
8 fire hydrants installed or replaced	Man-hours	102.50	Backhoe Hrs.	14
40 fire hydrants repaired	Man-hours	107.50	Backhoe Hrs.	2
7 fire hydrants checked for damage	Man-hours	13	Vactor Hrs.	1.25
11 hydrants checked for leaks	Man-hours	9	Vactor Hrs.	2
8 hydrants pumped	Man-hours	7		
15 meter lids replaced	Man-hours	15	Vactor Hrs.	1
8 hydrant flow test	Man-hours	21		
94 broken mains varying in sizes From 1 inch and up. Includes regular hours, overtime hours and call out stand-by hours.	Man-hours	1425.25	Backhoe Hrs. Vactor Hrs.	178.50 4.50
81 leaks checked out	Man-hours	186	Backhoe Hrs. Vactor Hrs.	9 2
2 meters set in	Man-hours	6.50	Vactor Hrs.	.50
1 meter reductions	Man-hours	.50		
2 meters taken out	Man-hours	4		
1 meters changed	Man-hours	1		
24 pressure checks	Man-hours	44.50		

11 turn on service	Man-hours	10.50		
44 turn off for repairs regular hours,	Man-hours	33		
Overtime hours and call out stand-by	Man-hours	1016.75	Backhoe Hrs.	87
52 services killed	Man-hours	429.50	Backhoe Hrs.	61
9 rusty water complaints	Man-hours	14		
5 service lines repairs	Man-hours	34.50	Backhoe Hrs.	3
6 settings lowered	Man-hours	9.50	Vactor Hrs.	.25
13 settings moved	Man-hours	116	Backhoe Hrs.	14.50
6 settings raised	Man-hours	10.50	Backhoe Hrs.	.50
28 settings repaired	Man-hours	137	Backhoe Hrs. Vactor Hrs.	14.50 5
11 no water calls	Man-hours	12.50		
10 Nipples Set Hrs. for labor in No Water Call				
33 temporary meter set and removed	Man-hours	54.95		
15 pools Filled	Man-hours	71		
167 asphalt prep work	Man-hours	526.50	Backhoe Hrs.	54
37 concrete repairs	Man-hours	198	Backhoe Hrs.	26
303 grade and seeds	Man-hours	262	Backhoe Hrs.	68.15
16 vactor work	Man-hours	20.50	Vactor Hrs.	9

MISCELLANEOUS JOBS

There were 214 different miscellaneous jobs done by water distribution for a total of 1278.50 labor hours with 187.50 backhoe hours, 126.50 mini excavator hours, 50.00 vactor hours, .5 welder hours: 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.