

RE: MANSFIELD CITY
Report
Drinking Water Program
Richland County
PWS ID: OH7002914

City of Mansfield, Ohio
Lead Service Line and Fixture Mapping Request Project
Prepared by: Jones & Henry Engineers, Ltd.
March 9, 2017

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System Name: City of Mansfield

PWS ID: OH5700812

Ohio House Bill 512 requires community water systems to identify and map areas of the distribution system that are known to or are likely to contain lead service lines. The Bill also requires systems to identify and provide a description of the characteristics of buildings served by the system that may contain lead piping, solder, or fixtures. Lastly, the Bill requires systems to publicize lead and copper sampling locations.

This document includes: the current lead and copper sampling addresses; an explanation of the methodology used for building characterization; an explanation of the Legend noted on the map; and the map of the City's water service area. Mansfield's water service area is the area within the corporation limits.

Lead and Copper Sample Sites

The OEPA requires the City to routinely obtain water samples to be analyzed for the concentration of lead and copper. Based on system population, thirty sample sites are required. In 2016 three additional sites were added that included local schools. The sites include homes, businesses and schools throughout the service area and in total provides a complete cross-section of the water quality conveyed to customers. It should be noted that home and building owners voluntarily obtain the sample on behalf of the City.

Building Pipes and Fixtures

Water lines within buildings are typically, galvanized steel, copper, PVC or polyethylene and in older buildings could be lead. In 1986, the Safe Drinking Water Act (SDWA) was amended to ban the use of lead service lines and lead solders containing more than 0.2% lead. The lead ban provisions of the act became effective in the Ohio Plumbing Code on March 30, 1998. The act also required the use of lead-free flux, pipes and fittings in new installations and repairs of any facility that provides water for human consumption. Lead-free at the time was defined as having no more than 8.0% lead. In 2014 the lead-free definition was reduced to no more than 0.25% lead.

Therefore, the characteristics of buildings and their respective piping, solders or fixtures can be established based on the construction dates of: prior to 1998; 1998 to 2014; and after 2014. Buildings constructed prior to 1998 may have piping materials with greater than 8% lead than those constructed after 1998 and have a higher risk of contributing lead to drinking water. Buildings constructed after 2014 have piping materials with less than 0.25% lead and are at lowest risk of contributing lead in drinking water. Buildings constructed from 1998 to 2014 have a moderate risk of contributing lead in drinking water.

City GIS, Richland County GIS from the Engineering Department, Richland County Building Department, County Auditor's Department, City records, and City personnel were used to establish the original construction date or date when piping and fixture replacement took place. The map shows buildings constructed prior to 1998 with light yellow cross-hatching. Those constructed from 1998 to 2014 shown as light blue cross-hatching. Construction 2014 and later shown as light green cross-hatching.

The map shows footprints of buildings in the Mansfield area as shaded polygons. Most of these buildings and their associated parcel in the City are cross-hatched based on date of construction. Some parcels with buildings are not cross-hatched because there was no information associated with the building or parcel. This could mean one of three things: first, the building is listed in the database as an "out-building and therefore not likely to have water service; second, the date of construction is simply missing from the database; and third, the building occupies or is associated with more than one parcels and only one of the parcels are cross-hatched.

Service Lines

Service lines are the small pipe lines that connect the water mains to the customer's building. Typically, the service line from the main to the sidewalk (curb-stop or meter pit) is the responsibility of the water utility (street side) with the remainder the being the responsibility of the building owner (private side). Service line materials include galvanized steel, lead, copper, PVC, or polyethylene. The utility side and private side could be of different materials. As noted earlier in this document, the installation of new lead service lines has been banned since 1986.

Service line material designation for each building is shown on the accompanying map and noted as lead or non-lead. The color-coded squares depict utility side with circles depicting private or building side. A solid yellow notes lead service line with a solid green noting non-lead (galvanized steel, copper, PVC, or polyethylene) service line. Solid gray notes no information available.

The City initiated a program years ago to replace all lead service lines. Based on City water distribution records and department personnel, there are no known lead service lines in the City. Therefore, to reduce congestion on the map no service line color-coding was entered. The City has a policy that if by chance a lead service line is encountered, the City will replace it as soon as possible.

Final Note

The City of Mansfield's drinking water exceeds all federal and state lead and copper rules and regulations.

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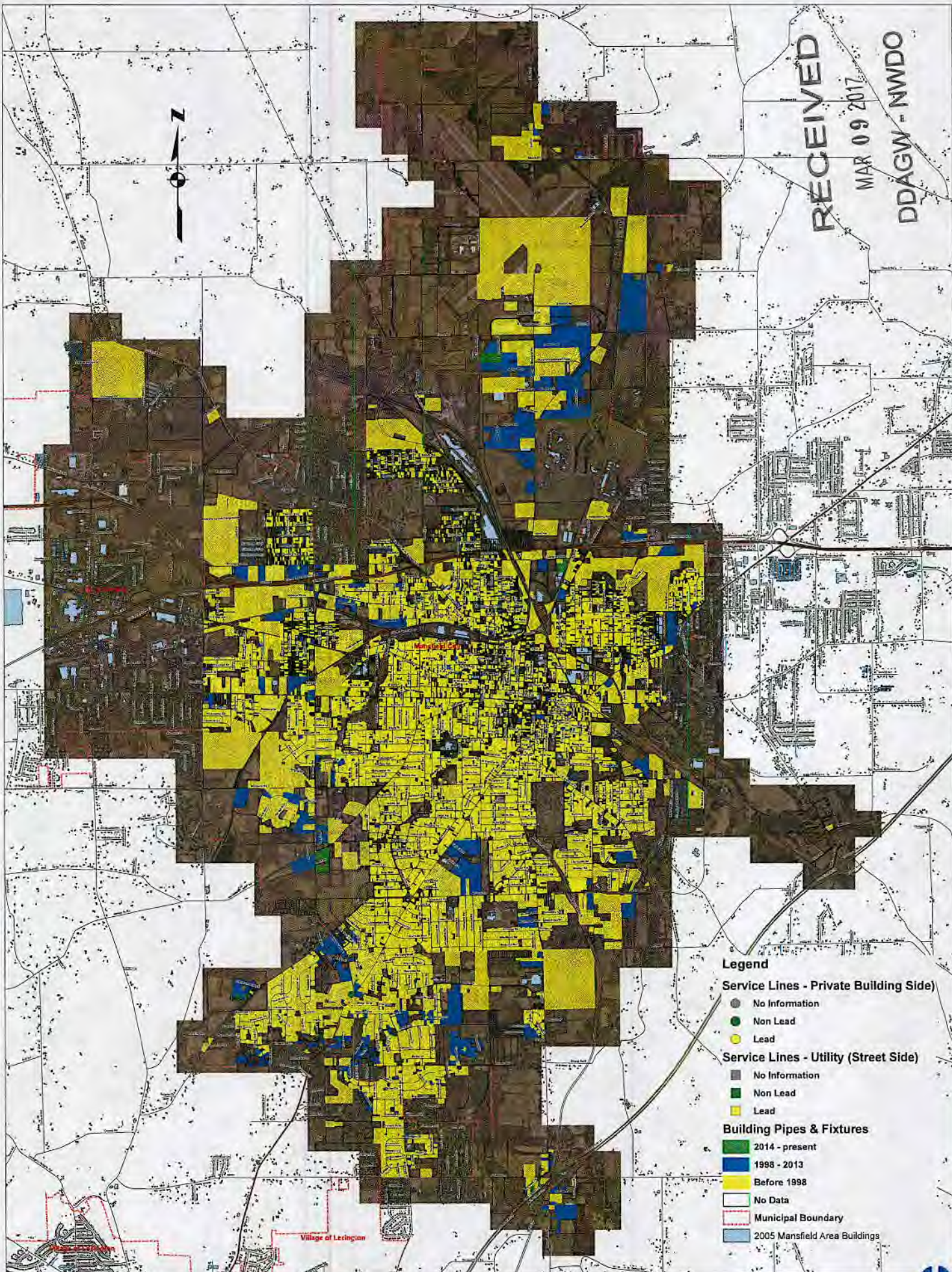
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Legend

Service Lines - Private Building Side)

- No Information
- Non Lead
- Lead

Service Lines - Utility (Street Side)

- No Information
- Non Lead
- Lead

Building Pipes & Fixtures

- 2014 - present
- 1998 - 2013
- Before 1998
- No Data

- Municipal Boundary
- 2005 Mansfield Area Buildings

