



April 2026

Draft Lead Service Line Replacement Plan

2600638

Village of Deerfield (IL0974340)
Deerfield, IL

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List of Definitions and Abbreviations

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a CWS must follow. The current Action Level for lead is 15 parts per billion, in accordance with the Lead and Copper Rule.²

Community Water System/Supply (CWS): A public water system which serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.²

Corrosion Control Treatment (CCT): A treatment that utilizes a corrosion inhibitor which is a substance that can reduce the corrosivity of water toward metal plumbing materials, especially lead and copper, by forming a protective film on the interior surface of those materials.³

Emergency Repair: Any unscheduled water main, water service, or water valve repair or replacement that results from failure or accident.¹

Full Lead Service Line Replacement (LSLR): Replacement of a lead service line (or galvanized service lines requiring replacement) that results in the entire length of the water service line, regardless of ownership, being free of lead.² A full lead service line replacement could leave a lead service line in place in the ground but out of service if using a new non-lead service line.³

Galvanized Requiring Replacement (GRR): A galvanized service line that is or ever was downstream of a lead service line or is currently downstream of a lead status unknown service line.³

Note: Galvanized water service lines have a rough interior surface. If the galvanized service line is or has been in contact with lead, then it likely has lead particulate that has settled on the interior surface.

Galvanized Service Line: A water service line that is made out of iron or steel piping zinc-dipped to prevent corrosion and rusting.³

Illinois Lead Service Line Replacement and Notification Act (ILSLRNA): Illinois law requiring CWS to create a water service line material inventory, create a LSLR Plan, provide notice to potentially affected building occupants, prohibit partial LSLR, and disconnect LSLs from the drinking water supply.¹

Lead: A naturally occurring element found in small amounts in the earth's crust; while it has some beneficial uses, it can be toxic to humans and animals, causing health effects.²

Lead and Copper Rule (LCR): Federal law established by USEPA to protect public health and reduce exposure to lead and copper in drinking water.² The LCR has been revised and updated most recently under the Lead and Copper Rule Revisions (LCRR) and Lead and Copper Rule Improvements (LCRI).

Lead Service Line (LSL): A water service line made of lead or water service line connected to a lead pigtail, lead gooseneck, or other lead fitting.¹

Lead Status Unknown Service Line: A water service line that a CWS has yet to identify as lead, galvanized requiring replacement, or non-lead material. The service line material may also be designated as Unknown.³

Non-Lead Service Line: A water service line that a CWS has determined through an evidence-based record, method, or technique is non-lead or galvanized requiring replacement. The service line material may also be designated using its actual material of construction (e.g., plastic, copper, ductile iron, etc.).³

Safe Drinking Water Act (SDWA): A federal law that regulates the nation's public drinking water supply to protect public health. The Act has been revised multiple times since its enactment in 1974, the last revision occurring in 2018. In 1986, Congress amended the SDWA to ban the use of lead pipe, flux, and solder. There was a two-year implementation period after Congress banned the use of lead pipe. For the purpose of the LSLR Plan, 1988 will be used as the year lead pipe was banned.

Solder: A type of metal that is used to join metal parts such as sections of pipe, without melting the existing metal in the parts to be joined.²

Suspected Lead Service Line: A water service line that a CWS finds more likely than not to be made of lead than non-lead.¹

Trigger Level (TL): The concentration of lead which, if exceeded, triggers notification, water quality sampling and goal-based replacement requirements which a CWS must follow. Effective October 16, 2024, the Trigger Level for lead is 10 parts per billion, in accordance with the Lead and Copper Rule Revisions.²

Unknown Not Lead Service Line: A water service line that CWS has been unable to determine the material of, however has safely assumed the service is not made of lead based upon historical knowledge, such as the building/property was developed after Congress banned the use of lead pipe in 1988 and/or the service line diameter is greater than 2-inches.

Water Main: A pipe that conveys water to a connector or customer's water service line. In residential areas, it is usually located underground.²

Water Service Line: Piping, tubing, and necessary appurtenances acting as a conduit from the water main or source of potable water supply to the building plumbing at the first shut-off valve or 18 inches inside the building, whichever is shorter.¹

Water Service Line Material Inventory: A water service line inventory developed by a community water supply under this Act that identifies the material of each water service line.¹

Water Service Line Ownership: Lead water service line ownership is shared between the CWS and the property owner. The CWS maintains the water service line from the watermain up to the b-box (exterior shut-off valve); from the b-box into the home is the homeowner's responsibility. Note, for water service lines not requiring replacement, refer to the Village's Code (Sec. 23-12. Repairs On Service Pipes; Notice To Repair) regarding water service line ownership.¹

References:

1. Defined in accordance with the Illinois Lead Service Line Replacement and Notification Act
2. Defined in accordance with the U.S. Environmental Protection Agency (USEPA)
3. Defined in accordance with the General Assembly's Illinois Administrative Code

1. Executive Summary

Under the Illinois Lead Service Line Replacement and Notification Act (ILSLRNA), US Environmental Protection Agency’s (USEPA) Lead and Copper Rule Revisions (LCRR), and USEPA’s Lead and Copper Rule Improvements (LCRI), the Village of Deerfield (Village) is tasked with facilitating the replacement of all lead and galvanized requiring replacement (GRR) water service lines connected to its drinking water supply. The purpose of a Lead Service Line Replacement (LSLR) Plan is to identify and locate lead and GRR water service lines, develop strategies to facilitate the replacement of such water service lines, identify funding mechanisms for replacements, and develop design and construction criteria for executing replacements. This LSLR Plan is the Village’s draft and will be revised annually.

The Village has 6,387 water service lines within its corporate limits and is working to identify the material of each water service line. At this time, the Village has identified 276 lead service lines and has 1,396 remaining unknowns. The table below highlights the inventory efforts of the Village since 2020, including remaining unknowns, identified lead and GRR water service lines, and replaced lead and GRR water service lines.

Table 1 - Water Service Lines Requiring Replacement and Replaced to Date

Year	Total Water Service Lines	Unknown Material	Lead & GRR	Replaced Lead
2020	6,786	0	877	0
2021	6,786	0	877	1
2022	6,252	230	418	0
2023	6,252	1,426	303	9
2024	6,372	1,385	297	1
2025	6,387	1,396	276	23

As of March 2026, the Village has 276 lead service lines with 1,396 remaining unknowns. As required by the LCRI, the Village intends to replace all lead water within 10 years. The recently finalized LCRI requires a replacement rate of 10% per year across a 3-year rolling average. Previously, under the ILSLRNA, the Village was mandated to replace 7% per year; Appendix A provides a breakdown of ILSLRNA requirements, which have been superseded by the finalization and adoption of the LCRI.

The Village is estimating it will have approximately 400 lead services; the total cost to replace approximately 400 lead and GRR service lines will be \$7.5 million, with an annual estimated cost of \$750,000 over 10 years. At this time, the Village of Deerfield is assessing what funding programs and local revenue sources will minimize the debt service and overall financial impact on the Village and its customers.

The Village of Deerfield will post this Draft Lead Service Line Replacement Plan online at <https://il-deerfield.civicplus.com/208/Water-Division> at the time of their third draft LSLR Plan submittal to Illinois

Environmental Protection Agency (IEPA). The Village will provide opportunity for public comment before the final LSLR Plan is due.

This draft LSLR Plan is pursuant to the ILSLRNA, as well as the LCRR, which was adopted into Illinois Administrative Code effective November 2, 2023. On October 8, 2024, USEPA released the Lead & Copper Rule Improvements (LCRI) with compliance required by November 1, 2027. The LCRI presents changes to the current LCRR, including replacement of all lead and GRR service lines within 10 years and lowering the lead Action Level to 10 parts per billion. Currently, the LCRI is referenced as a part of this draft LSLR Plan within certain planning sections but not throughout the Plan in its entirety. Once community water systems receive guidance on how the state and federal law will interact, the Village will update future LSLR Plans as required by the ILSLRNA, LCRR, and LCRI.

2. Introduction

In accordance with the Illinois Lead Service Line Replacement and Notification Act (ILSLRNA), Public Act 102-0613 (415 ILCS 5/17.12), every Community Water System (CWS) with known lead, suspected lead, galvanized requiring replacement (GRR), or lead status unknown water service lines must create a Lead Service Line Replacement (LSLR) Plan. The purpose of the LSLR Plan is to identify and locate lead and galvanized requiring replacement service lines, develop strategies to facilitate the replacement of such water service lines, identify funding mechanisms for replacements, and develop design and construction criteria for executing replacements.

The Village of Deerfield has 6,387 water service lines connected to the Village’s water distribution system. Of those, the Village has identified 276 lead service lines and has 1,396 remaining unknowns. To date, the Village has not identified any galvanized requiring replacement service lines. The Village must submit their third draft LSLR Plan to the Illinois Environmental Protection Agency (IEPA) by April 15, 2026. After which, IEPA will review and provide comments back to the Village. After subsequent draft submissions to IEPA, the Village will submit their final LSLR Plan in 2027.

Since 2020, the Village has been working to identify the material of water service lines and has been reporting materials to IEPA annually. Table 2 below provides a breakdown of total water service lines, including unknown, known lead, and replaced lead service lines within the Village since 2020.

Table 2 - Water Service Lines Requiring Replacement and Replaced to Date

Year	Total Water Service Lines	Unknown Material	Lead & GRR	Replaced Lead
2020	6,786	0	877	0
2021	6,786	0	877	1
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This draft LSLR Plan is pursuant to the ILSLRNA, as well as the LCRR, which was adopted into Illinois Administrative Code effective November 2, 2023. On October 8, 2024, USEPA released the Lead & Copper Rule Improvements (LCRI) with compliance required by November 1, 2027. The LCRI presents changes to the current LCRR, including replacement of all lead and GRR service lines within 10 years and lowering the lead Action Level to 10 parts per billion. Currently, the LCRI is referenced as a part of this draft LSLR Plan within certain planning sections but not throughout the Plan in its entirety. Once community water systems receive guidance on how the state and federal law will interact, the Village will update future LSLR Plans as required by the ILSLRNA, LCRR, and LCRI.

3. System Overview

3.1. Location and Customer Base

The Village of Deerfield is located in West Deerfield and Moraine townships, Lake and Cook counties Illinois and is approximately 25 miles north of Chicago, Illinois. According to the 2020 Census, the Village covers 5.53 square miles and serves 19,196 customers. Figure 1 below shows the Village's municipal boundary.

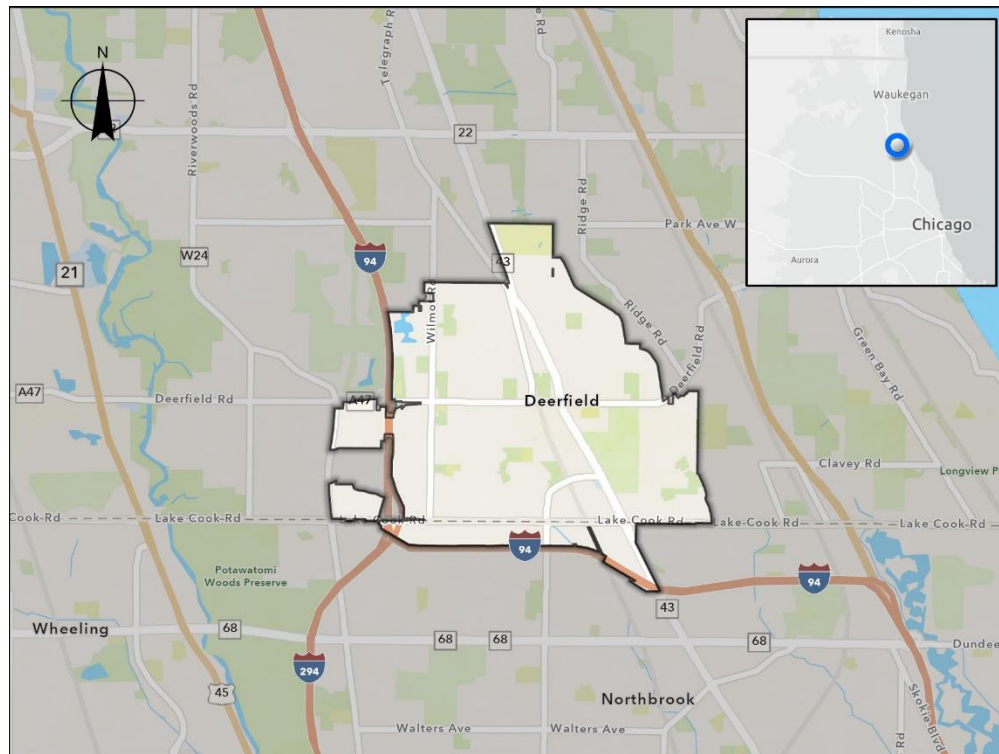


Figure 1 - Village of Deerfield Municipal Boundary

The Village of Deerfield provides water service to customers within the municipal boundary of the Village. This draft LSLR Plan will pertain only to water service lines within the municipal limits of the Village.

Understanding the demographics and characteristics of Village of Deerfield's customer base assists the Village with the planning of future replacements and public engagement needs. Approximately 12% of the Village is non-English speaking, with the most common languages spoken other than English being Spanish and Indo-European languages.

Additionally, IEPA has identified eight criteria to compare and score lead service line replacement projects submitted to the Illinois State Revolving Fund's Public Water Supply Loan Program for funding assistance. Within the Village of Deerfield, there are eight Census designated geographic areas, known as census tracts. See Appendix B for a map of Community's census tracts and how many points IEPA would award

projects in each tract. Projects are awarded points based on which census tract the project is located within.

3.2. Water System Overview

The Village of Deerfield owns and operates a public water treatment and distribution system that includes one elevated tank, three reservoirs, and four booster stations and is supplied with Lake Michigan water purchased from the City of Highland Park (City). The City’s water purification process primarily uses gravity filtration and chlorine disinfection. Additionally, for over 30 years, the City has had a Corrosion Control Treatment (CCT) program. To prevent lead and copper from leaching into drinking water, the City adds orthophosphate to the water. Orthophosphate prevents corrosion by forming a protective coating inside the pipes throughout the distribution system.

Treated water is then distributed to customers through 107 miles of water main, mostly comprised of cast and ductile iron. The Village is unaware of water main with lead joints in their system. However, it is important to note that lead from lead jointed water mains does not come into direct contact with the water supply. The Village’s water distribution system can be seen Figure 2 below.

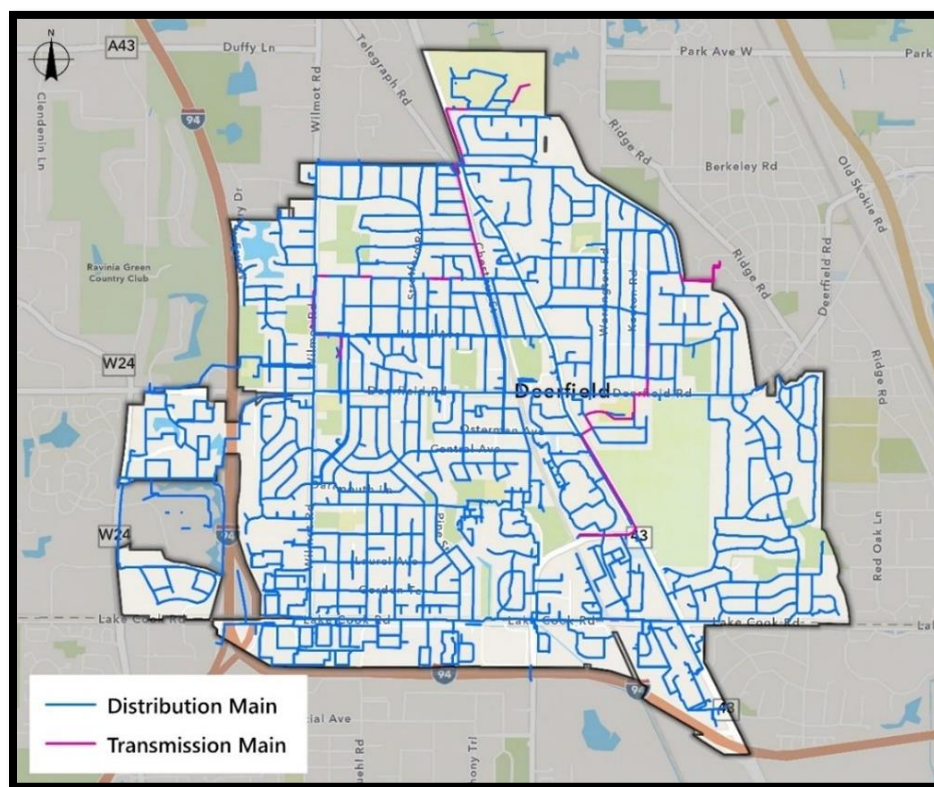


Figure 2 - Village of Deerfield Water Distribution System Map

Additionally, the Village performs regular testing for lead throughout the distribution system. In accordance with the LCRR, the Village has resumed standard monitoring at 60 sites, semi-annually. Results from the last three rounds of testing are shown below in Table 3. The Village of Deerfield is in full

compliance with IEPA and USEPA, which requires a community to be below an Action Level of 15 parts per billion at the 90th percentile. For reference, if a community were to sample at 10 locations and order the sample results from these locations from least to greatest, the 90th percentile would be the ninth highest sample result.

Table 3 - Lead Sampling Results

Monitoring Period	No. of Sites	Action Level (AL) (parts per billion)	90 th Percentile (parts per billion)	No. of Sites over AL
January 2022 – December 2024	30	15	0	0
January – June 2025	60	15	10.7	6
July – December 2025	54	15	6.18	0

The Village publishes their annual water quality report (also known as a Consumer Confidence Report) on the Village’s website by July of each year. This report provides additional information on the Village’s source water, any contaminants found in the water, and ways residents may get involved to protect drinking water. Under the LCRR, an additional sampling limit of 10 parts per billion called the Trigger Level was introduced, effective January 2025. If the Trigger Level is exceeded, a community must take certain actions. The LCRR also introduced changes to lead sampling procedures.

3.3. Future Service Area

At this time, the Village of Deerfield does not anticipate any annexations or planned future expansion. As such, the Village is not anticipating any significant changes to the number of water service lines in town.

4. Lead Service Line Replacements

Under state and federal regulations, the Village is required to facilitate the full replacement of lead and GRR water service lines. The ILSLRNA requires lead and GRR water service lines be replaced if they are disturbed (repaired) or starting in 2027 at a designated rate of replacement each year until all lead and GRR water service lines are completely removed. The LCRR requires lead and GRR water service lines be replaced at a designated rate based upon the sample results of a CWS's lead sampling. Meanwhile, the LCRI requires lead and GRR water service lines be replaced within 10 years, starting November 1, 2027.

4.1. Water Service Line Material Inventory

A comprehensive water service line material inventory includes compiling a list and location of each active water service line within the Village and identifying the material type for both the public side (from the watermain to the b-box/exterior shut-off valve), and the private side (from the b-box into the building/interior shut-off valve). Figure 3 below shows the shared responsibility of a water service line in the Village of Deerfield.

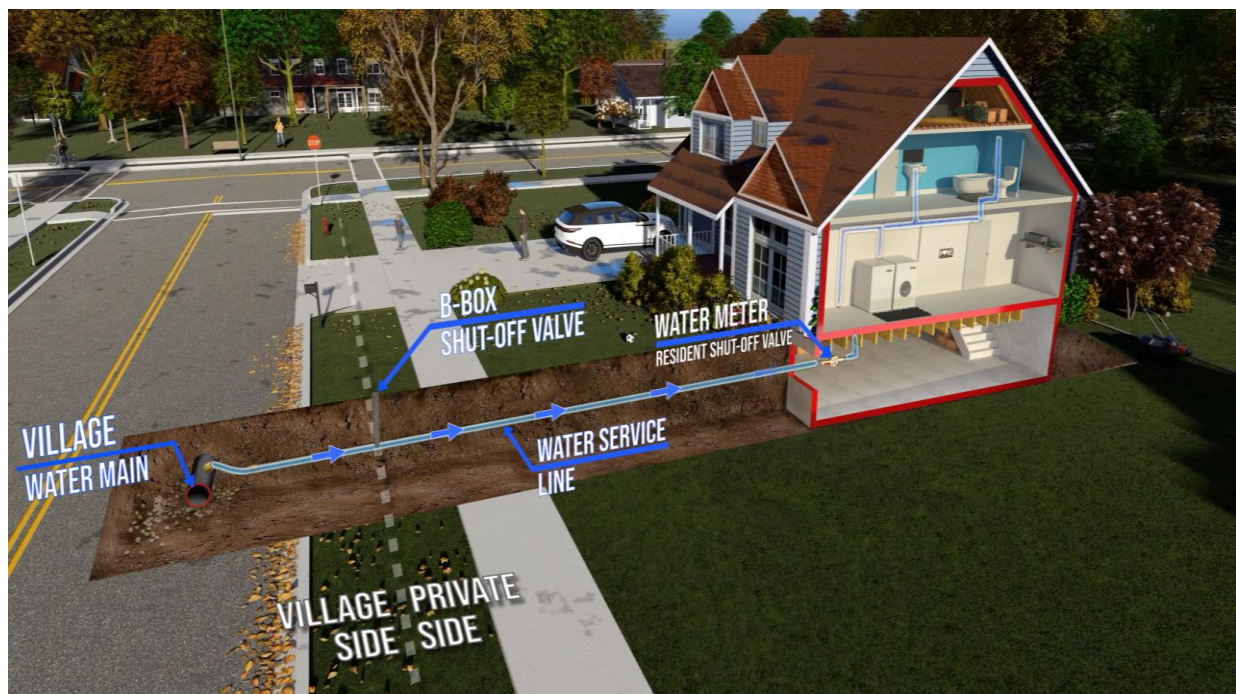


Figure 3 - Water Service Line Ownership

Water piping inside of the building after the interior shut-off valve is deemed premise plumbing under state and federal regulations; premise plumbing is the full responsibility of the property owner.

At this time, the Village of Deerfield has identified the material of 4,991 water service lines within their distribution system. Table 4 provides a breakdown of identified materials for both the Village side (Village owned and maintained) and the private side (property owner owned and maintained). The Village expects the total number of lead and GRR service lines will be 400.

Table 4 - Service Line Material Inventory (Updated March 2026)

Service Line Material	Village Side	Private Side
Lead	149	272
Unknown Material	1,406	243
Unknown Not Lead	31	99
Copper	4,787	5,635
Cast/Ductile Iron or Transite	14	138

4.1.1. Material Inventory Methodology and Continuing Efforts

When completing the water service line material inventory, a CWS is to utilize, at minimum, the following methods to complete the identification of pipe material types:

- Review of historical documentation, such as as-builts, permits information, construction records, or subdivision plans
- Visual inspection during distribution system maintenance
- Utilize known installation time periods for when lead was or was not installed
- Discuss with staff, contractors, or local plumbers who have worked on service lines connected to the distribution system

Note that under the ILSLRNA and LCRR, the Village is not required to excavate water service lines to determine their material. However, certain circumstances may warrant the Village to complete more invasive methods, such as excavation, on a case-by-case basis.

Village records were reviewed for service line material. In addition, in-home inspections were performed by Village staff and residents by survey request. In-home inspections utilized visual inspection of the water service line as it enters the building to confirm the material type. The Village is utilizing in-home inspections to identify remaining unknowns.

4.2. Replacement Schedule

The Village has identified 276 lead and GRR service lines to date and has 1,396 remaining unknowns. Although required replacements will not begin until 2028, the Village intends to replace lead service lines (and GRR service lines if encountered) that are within the limits of upcoming Capital Improvement Projects.

In 2026 and 2027, there are 41 lead service lines within the limits of Upcoming Capital Improvement Projects. The Village anticipates these service lines being replaced before 2028, resulting in 359 lead service lines in 2028.

Water service lines that have been identified as lead to date are shown below in Figure 4. Note that the galvanized service lines identified below do not automatically require replacement. Additional investigation may be required by the Village to determine if a galvanized service line requires replacement. Appendix C shows all service line material types throughout the Village.

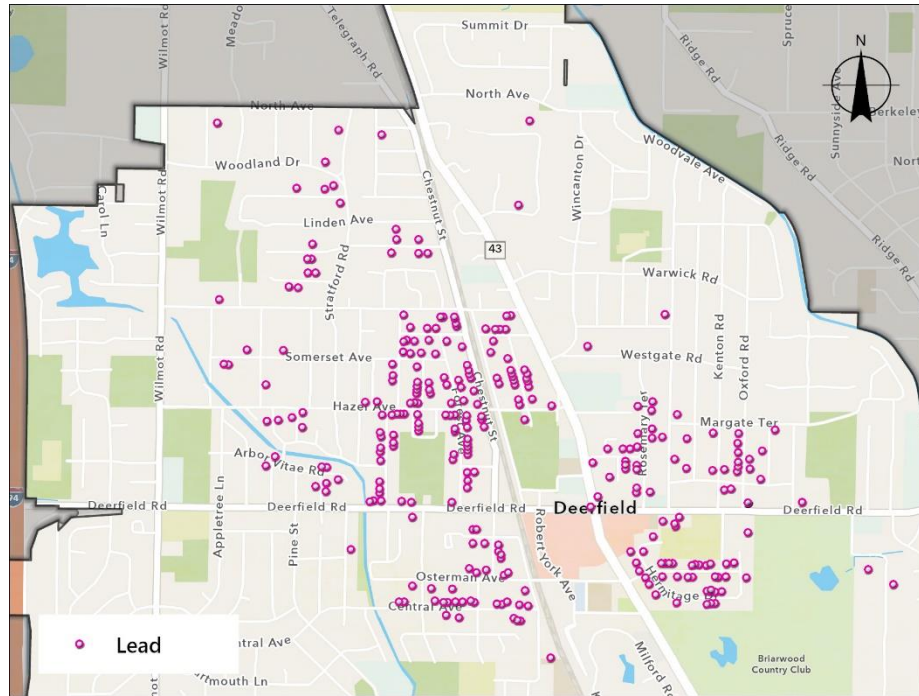


Figure 4 - Village of Deerfield Identified Lead Service Line Locations (Updated April 2025)

4.2.1. Federal Replacement Schedule under LCRR

Per the LCRR, the Village must initiate lead and GRR water service line replacements based upon the results of the water sampling conducted throughout the distribution system at specified locations/properties approved by the state’s primacy agency (agency responsible to ensure that a CWS meets all national drinking water regulations). The Village is required to respond under the LCRR if the following occurs:

- **Exceedance of Trigger Level:** In the event that the Village has an exceedance of 10 parts per billion at the 90th percentile, the Village must recommend a goal replacement rate. The Village will aim to replace 3% of lead water service lines annually, until the Village no longer exceeds the Trigger Level.

Note that a replacement goal rate is only for CWS’s that serve more than 10,000 people.

- **Exceedance of Action Level:** In the event that the Village has an exceedance of 15 parts per billion at the 90th percentile, the Village must begin annual lead and GRR water service line replacements at a rate of 3% per year.

The above requirements became effective October 2024; however, are superseded by the LCRI required rate of lead and GRR water service line replacements starting November 1, 2027, as described in [Section 4.2.2 Federal Replacement Schedule under LCRI](#). In October 2024, USEPA finalized the LCRI, which requires communities to replace all LSLs and GRRs within 10 years, regardless of sampling results.

4.2.2. Federal Replacement Schedule under LCRI

Per the LCRI, the Village is mandated to replace 10% of lead service lines per year across a 3-year rolling average. This mandate begins November 1, 2027, and requires all lead service lines be replaced by the end of 2037, as shown in Table 5 below. The Village will be required to report annual replacements completed to IEPA starting after Program Year 3, showing the cumulative replacements for the first 3 years of the Village’s replacement program. The table below assumes 41 lead service lines will be replaced prior to November 1, 2027. The total replacement pool is subject to change.

Table 5 - LCRI 10-Year Replacement Schedule

Program Year	Date Range	Replacement Pool	Replacements per Year	Cumulative Replacements
1	November 1, 2027 – December 31, 2028	359	36	36
2	January 1, 2029 - December 31, 2029	323	36	72
3	January 1, 2030 - December 31, 2030	287	36	108
4	January 1, 2031 - December 31, 2031	251	36	144
5	January 1, 2032 - December 31, 2032	215	36	180
6	January 1, 2033 - December 31, 2033	179	36	216
7	January 1, 2034 - December 31, 2034	143	36	252
8	January 1, 2035 - December 31, 2035	107	36	288
9	January 1, 2036 - December 31, 2036	71	36	324
10	January 1, 2037 - December 31, 2037	35	35	359

Under the LCRI, the Village plans to facilitate the replacement of approximately 36 lead and GRR water service lines each year, in order to maintain an average 10% replacement rate across a 3-year rolling period.

4.3. Prioritization of Lead Service Line Replacements

The Village first intends to prioritize the replacement of lead service lines at facilities that serve populations most sensitive to the effects of lead. Facilities that have a higher likelihood to serve children and/or pregnant women have been identified in Section 4.3.1 High-Risk Facility Replacements below, in accordance with the ILSLRNA and LCRR. Additionally, the Village has reviewed other CIP programs to assist with the prioritization of the remainder of replacements, as identified in Section 4.3.2 Future Replacement Planning.

4.3.1. High-Risk Facility Replacement

High-Risk facilities, as described by the ILSLRNA, are facilities such as preschools, day care centers, day care homes, parks, and playgrounds, hospitals, and clinics. The Village has identified 64 high-risk facilities, with none of the high-risk facilities having a known lead service line. Table 6 below shows the number and type of high-risk facilities identified in the Village.

Table 6 - Lead Service Lines by High-Risk Facility Type (Updated April 2026)

High-Risk Facility	No. of Facilities	Reported Lead	Unknown Material
Preschool/Day Care Facility	12	0	2
Elementary School (K – 5th Grade)	4	0	3
Secondary School (6th – 12th Grade)	4	0	1
Women, Infants and Children (WIC) and Head Start programs	0	0	0
Medical Facility ¹	27	0	4
Local welfare agencies (shelters)	0	0	0
Community Centers	0	0	0
Places of worship	6	0	2
Parks and playgrounds	11	0	2

Note:

- For the purpose of this Plan, hospitals, emergency care, clinics, pediatricians, obstetricians-gynecologists, and midwives were considered medical facilities.

At the high-risk facility with unknown service lines, the Village will work with the facilities to identify the material of their water service line. If lead is discovered, the Village will aim to replace any service lines serving a high risk facility by 2029. Figure 5 below shows the locations of the high-risk facilities with an unknown service line.

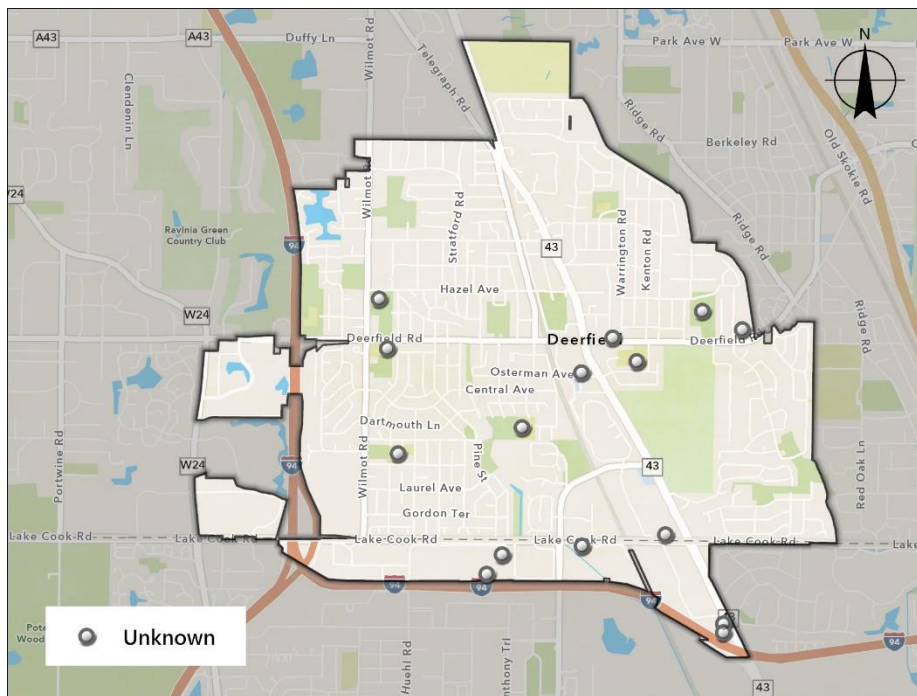


Figure 5 - High-Risk Facilities with an Unknown Service Line

4.3.2. Future Replacement Planning

In an effort to minimize inconvenience to residents and reduce overall construction costs, the Village’s

Capital Improvement Plan (CIP) projects were reviewed and considered to assist with the prioritization of future LSLs replacements. The intent is to schedule replacements either during planned underground infrastructure improvements, such as water main replacement projects, or to schedule replacements in advance of planned roadway resurfacing or sidewalk improvements.

At this time, the Village’s Capital Improvement Projects have been reviewed as a part of this draft LSLR Plan. As a part of any Village water main project, the Village will be required to replace any lead service lines that are disturbed. It is recommended that the Village plan to replace any lead or GRR water service lines in advance of their scheduled road improvement programs to reduce the need to patch a newly resurfaced road in the following years. Figure 6 shows the limits of the CIP projects by program year. The CIP projects are expected to include watermain and road improvements.

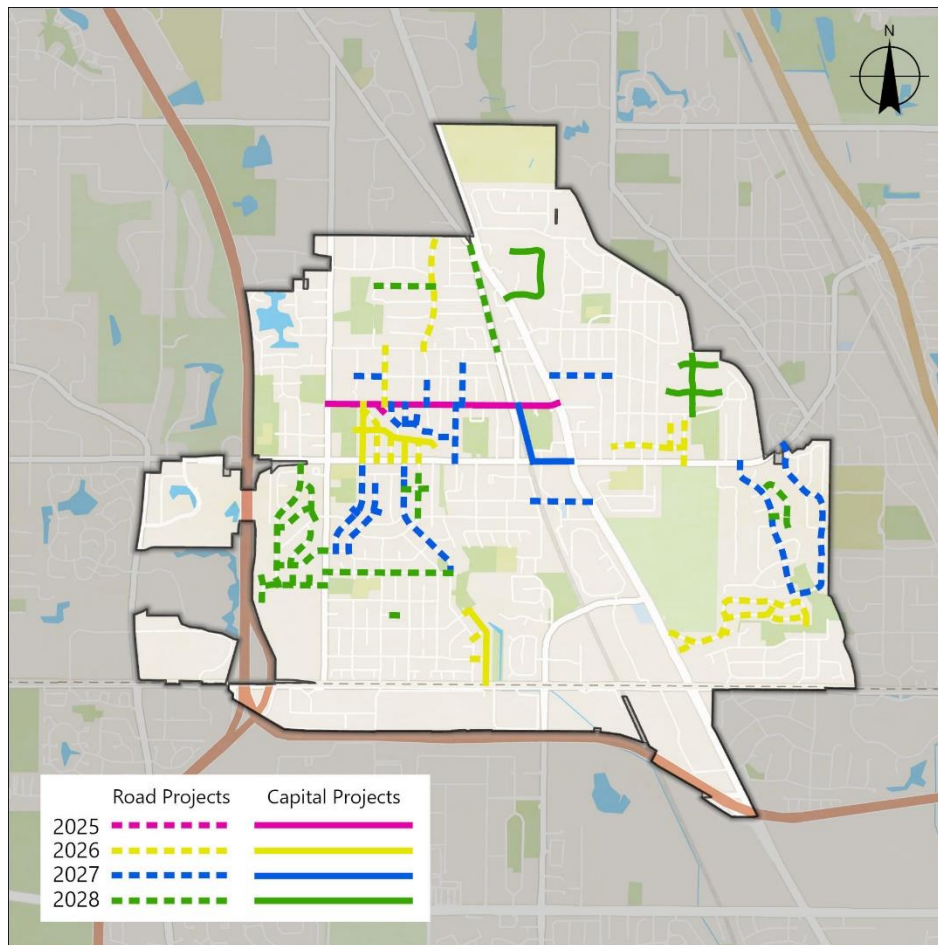


Figure 6 - Village Capital Improvement Project Areas

At this time, there are a total of 45 known lead service lines identified within the limits of the Capital Improvement Projects. Table 7 below shows the total number of known and unknown service line materials within each of the CIP project’s limits.

Table 7 - Lead Service Lines within CIP Limits

Project Year	Known Lead Service Lines	
	Road Improvements Only	Water & Road Improvements
2026	15	2
2027	24	0
2028	2	2
Total within Project Limits:	41	4

Once required replacements start, the Village will have to include replacements outside CIP projects to meet the federal timeline. The Village is considering the following ways to prioritize lead and GRR water service lines replacements outside of planned Capital Improvement Projects:

- Reimbursement Program** – If a property owner has decided to replace their lead service line and funds are available, the Village will reimburse up to 50% up to \$6,000 for a full replacement or \$2,500 for a partial replacement. Property owners must comply with all the terms and conditions set out in the Program Packet. For more information, visit <https://il-deerfield.civicplus.com/990/Lead-Service-Line-Replacement-Program-LS>.
- Census Tracts** – In an effort to prioritize disadvantaged customers, the Village is considering prioritizing areas of town based upon census tract information.
- Presence of Children** – Children under the age of six and pregnant women are the most susceptible to the health effects from lead exposure. The Village is considering prioritizing areas of town where the Village anticipates higher concentrations of children, such as near elementary schools or parks/playgrounds.
- Lead and GRR Water Service Line Locations** – In an effort to reduce the mobilization costs related to moving construction efforts throughout a community, the Village will work to minimize the limits of each year’s replacement project by focusing on areas of town with higher concentrations of lead and GRR water service lines.
- Future CIP Projects** – The Village will continue to plan other CIP projects based on community needs. As CIP projects are developed, the Village will coordinate lead and GRR water service line replacements within the limits of these projects.

5. Financing Lead Service Line Replacements

State and federal regulations do not require a CWS to finance the full replacement of a lead or GRR water service line. As described under Section 4.1 Water Service Line Material Inventory, maintaining a water service line is a shared responsibility between the Village and the property owner. The Village is currently assessing what funding options are available for both the Village and property owners. Different funding sources have different requirements associated with utilizing those funds and impact the Village and their consumers in different ways.

5.1. Water Service Line Replacement Cost Analysis

In recent years, the water industry has seen an increase in replacement costs for lead and GRR water service lines, mostly due to an increase in material costs and contractor availability. Additionally, each water service line requiring replacement is unique and dependent on the constraints of an individual property. Interior and exterior restoration efforts may vary from property to property, even within the same area of the Village. Due to this, an average construction cost ranging from \$12,000 to \$15,000 for a full water service line replacement (from water main to inside the property to the first interior shut-off valve or 18-inches, whichever is shorter) was used for the purpose of this draft LSLR Plan. This cost range is based on replacements completed within the Chicagoland area recently.

Table 8 provides a cost estimate range to replace all lead water service lines in their entirety within the Village. At this time, the Village is estimating 400 lead and GRR water service lines, but this number is subject to change as the Village continues their effort to identify the material of remaining unknown water service lines.

Table 8 - Estimated Cost Range to Replace All LSLs (Undated April 2026)

Full Service Line Replacements	Replacement Cost Estimate (2026 Dollars)	
	Low Range	High Range
400 Lead and GRR Service Lines	\$ 4,800,000	\$ 6,000,000
Design Engineering (5%)	\$ 240,000	\$ 300,000
Construction Engineering (8%)	\$ 380,000	\$ 480,000
Engineering & Construction Sub Total:	\$ 5,420,000	\$ 6,780,000
Contingency (20%)	\$ 540,000	\$ 680,000
Replacement Total:	\$ 6,000,000	\$ 7,500,000
Annual Replacement Cost over 10 years	\$ 600,000	\$ 750,000

For budgetary purposes, design engineering, construction engineering, and a contingency were included in the cost estimate. Design and construction engineering efforts will vary significantly, depending on if the Village is using Village staff or a consultant and whether a water service line is being replaced as a part of an existing CIP project or a stand-alone lead water service line replacement program. At this time, the Village is estimating that the total cost to replace all 400 lead and GRR services lines will be \$7.5 million over 10 years, with an annual cost estimated at \$750,000.

5.2. Funding Considerations

Understanding the various funding mechanisms available is crucial for the Village to begin planning future replacements and sequencing replacement work with other infrastructure projects. Funding sources may include, but are not limited to:

The Village's eligibility to obtain funds from any of the above sources will be dependent on the requirements of that funding source.

5.2.1. State and Federal Funding Sources

State and federal funding sources for lead and GRR replacements are growing increasingly competitive. However, two funding sources the Village may consider to supplement the cost of lead service line replacements include the following:

- U.S. Congressional Directed Spending: Senators can advocate for programs critical to the nation, constituents, and their states that promote economic growth, education, and health care initiatives. Funds are allocated each fiscal year by the U.S. Senate Committee on Appropriations.
- Public Water Supply Loan Program (PWSLP): A low interest loan program funded through Illinois State Revolving Fund to provide financial assistance to eligible public water systems on projects that maintain compliance with the requirements of the Safe Drinking Water Act and Illinois statutes/regulations. IEPA has announced for lead service line replacement projects a 0% interest loan for up to 30 years, with additional financial assistance including principal forgiveness and a 40-year loan for disadvantaged communities.

In addition, Cook County is offering free lead service line replacements to licensed home-based childcare providers within suburban Cook County through their LeadCare program. Although this program does not directly assist the Village in funding replacements, it would allow the Village to direct any eligible childcare facility with a lead or GRR water service line to the program. At this time, the Village has no known lead service lines at home-based childcare providers.

5.2.2. Local Revenue Funding Sources

If funds are available and the property owner has decided to replace their lead service line, they may participate in the Lead Service Line Replacement Cost Share Program. This program entitles property owners to receive a reimbursement of up to 50% of the cost of the lead service line replacement between the exterior shut-off valve and water meter, with a maximum reimbursement of \$6,000 for a full replacement or \$2,500 for a partial replacement. Property owners must comply with all the terms and conditions set out in the SOP.

5.3. Current Funding Considerations

At this time, the Village of Deerfield has a cost-share program for lead service line replacement. For more information, visit <https://il-deerfield.civicplus.com/990/Lead-Service-Line-Replacement-Program-LS>.

6. Replacement Procedures

Under the ILSLRNA, partial lead and GRR water service line replacement is prohibited, except in the event a property owner has denied access. As described under Section 4.1 Water Service Line Material Inventory, maintaining a water service line is a shared responsibility between the Village and the property owner. To facilitate and complete the replacement of the entire water service line, from the water main to the first interior shut-off valve or 18-inches within the property, work is completed both within the Village right-of-way as well as on private property.

A lead or GRR water service line replacement shall be completed in accordance with the ILSLRNA, LCRR, Illinois Plumbing Code and Village ordinances. At the time of this draft LSLR Plan, LCRI requirements have not been included in the replacement procedures below and will be updated once further guidance is provided by IEPA. Replacement requirements vary depending on whether the Village or the property owner initiates a replacement and are outlined in the below sections.

6.1. Community Initiated Replacement Procedure

When the Village initiates the replacement of a lead service line, whether planned or during emergency maintenance efforts, the Village must follow specific procedures during the bidding process, resident notification process and at time of construction. Below identifies the various replacement scenarios. These procedures are based on current state and federal regulations.

6.1.1. Minorities, Women, and Persons with Disabilities Act

Per the ILSLRNA, the Village is to make a good faith effort to use contractors and vendors owned by minority persons, women, and persons with a disability for not less than 20% of the total contracts, as defined in Section 2 of the Business Enterprise for Minorities, Women, and Persons with Disabilities Act.

1. Contracts representing at least 11% of the total projects shall be awarded to minority-owned businesses.
2. Contracts representing at least 7% of the total projects shall be awarded to women-owned businesses.
3. Contracts representing at least 2% of the total projects shall be awarded to businesses owned by persons with a disability.

In order to meet the above standards, the Village will require bidders to post in the local newspaper in order to reach contractors and vendors owned by minority persons, women, and persons with a disability. As a prerequisite to demonstrate compliance with the Village of Deerfield's disadvantaged business policy, bidders will need to provide the following at the time of bidding:

1. Completed and signed certification attesting that the bidder will not have any sub-contractors or sub-agreements to complete the water service line replacement work, or
2. Provide adequate proof of publication, including an actual copy of the newspaper advertisement from a daily or regional newspaper. The advertisement must run one day at least 16 days prior to bid opening.

- a. A list of all disadvantaged business enterprises (DBE) and non-DBEs that submitted proposals to the Village and/or Bidder shall be provided within five business days after receipt of Bids.

6.1.2. Scheduled Water Service Line Replacements

A scheduled replacement is when the Village has an upcoming project, such as a watermain replacement project, sewer replacement project, or a lead and GRR water service line replacement project, where lead or GRR water service lines are known or suspected and will be physically disturbed, requiring full replacement of the service line. Under these circumstances, the Village will complete the following:

1. At least 45 days prior to replacement, the Village or the Village's representative shall contact the property owner by written notice of the potentially affected service line to request access and permission to replace the lead or GRR water service line.
 - a. If the property owner does not respond within 15 days, the Village shall post the request at the building entrance.
 - i. If private side replacement is denied due to the property owner not granting access to the property, the Village will request that the property owner should sign the Illinois Department of Public Health's (IDPH) [Waiver of Complete Lead Service Line Replacement](#). The Village may continue with the replacement of the public side and continue with steps 2 through 5.
 - 1) If a property owner of a nonresidential building or residence operating as a rental property denies a complete water service line replacement, the property owner is responsible for installing and maintain point-of-use filters at all fixtures intended to supply water for the purpose of drinking, food preparation or making baby formula. The filters must meet NSF/ANSI 53 and NSF/ANSI 42 for the reduction of lead.
 - ii. If the owner fails to respond, the Village shall notify IDPH within 30 days by filling out the [Partial Lead Service Line Replacement – IDPH Notification Form](#). The Village may continue with the replacement of the public side and continue with steps 2 through 5.
2. At least 14 days prior to replacement, by mail/posted at entrance/electronically, the Village or the Village's representative shall notify the owner and occupants of the upcoming replacement. The notice will include the following information:
 - a. The replacement of the lead or GRR water service line may result in a temporary increase in lead levels.
 - b. Information on best practices to reduce lead in drinking water.
 - c. Information regarding health dangers to young children and pregnant women.
3. The standard method of conducting full lead service line replacement shall be directional drilling, which will minimize the area disturbed by construction and reduce restoration costs. However, site conditions will vary and may require other construction methods, such as pulling a new water

service line or performing open-cut replacement. A licensed plumbing contractor is required to perform this work.

When using directional drilling or the pulling construction method, a water service line may be replaced at or in close proximity to the same location of the existing lead or GRR water service line, even if water-sewer service separation requirements are not met, so long as the water service line is either encased or Type K Copper is used, and there is no observed leak on the sewer service per [IDPH's Sewer/Water Service Separation Variance](#). In the event of open-cut replacement, if the water-sewer service separation requirements are not met, the water service will require encasement.

4. At the time of replacement, the Village shall provide the property owner with a Point-Of-Use Filter or Pitcher Filter meeting NSF/ANSI 53 and NSF/ANSI 42 requirements and provides up to six months of filtration.
5. Within 24 hours of replacement, the Village shall notify the owner and occupants of the executed replacement, including:
 - a. The replacement of the lead or GRR water service line may result in a temporary increase in lead levels for the next six months.
 - b. Information on best practices to reduce lead in drinking water, including the flushing procedures described in [Section 6.3 Flushing Procedure After Lead Service Line Replacement](#).
 - c. Information regarding health dangers to young children and pregnant women.
 - d. Offer to have the property's water sampled for lead in the next three to six months by the Village or Village's representative. The Village must facilitate the sample being completed, record property participation and sample results (if completed), but the Village is not required to pay for the sample.

6.1.3. Emergency Water Service Line Repair and Replacements

An emergency replacement is when the Village disturbs a lead or GRR water service line during unplanned maintenance, such as a water main break or water service line leak. The Village may temporarily repair the lead service line and maintain water service, however by disturbing a lead service line, full replacement will then be required.

1. At the time work is initiated, by mail/posted at entrance/electronically, the Village shall notify the owner and occupants of the lead service line and provide a Point-Of-Use Filter or Pitcher Filter meeting NSF/ANSI 53 and NSF/ANSI 42 requirements until such time that the remaining portions service line have been replaced or replacement is waived. The notification shall include:
 - a. The replacement of the lead or GRR water service line may result in a temporary increase in lead levels.
 - b. Information on best practices to reduce lead in drinking water.
 - c. Information regarding health dangers to young children and pregnant women.
 - d. Information on how to use the provided water filter (pitcher or point-of-use).
 - e. Information on the upcoming full water service line replacement and required coordination efforts.

2. From the time of the repair, the Village has 30 days, or 120 days in the event of weather or other circumstances beyond reasonable control that prohibits construction, to facilitate the full replacement of the lead or GRR water service line.
 - a. If replacement is denied due to the property owner not granting access to the property, the Village will request that the property owner should sign the Illinois Department of Public Health's (IDPH) [Waiver of Complete Lead Service Line Replacement](#).
 - 1) If a property owner of a nonresidential building or residence operating as a rental property denies a complete water service line replacement, the property owner is responsible for installing and maintaining point-of-use filters at all fixtures intended to supply water for the purpose of drinking, food preparation or making baby formula. The filters must meet NSF/ANSI 53 and NSF/ANSI 42 for the reduction of lead.
 - b. If the owner fails to respond, the Village shall notify IDPH within 30 days by filling out the [Partial Lead Service Line Replacement – IDPH Notification Form](#).
3. The remaining replacement procedures will follow steps 2 through 5 in [Section 6.1.2. Scheduled Water Service Line Replacement](#).

6.2. [Property Owner Initiated Replacement Procedure](#)

When the property owner initiates the replacement of a lead service line, whether planned or during emergency maintenance efforts, the property owner and Village must follow specific procedures during prior to and at time of replacement. These procedures are based on current state and federal regulations.

6.2.1. [Scheduled Water Service Line Replacement](#)

A scheduled replacement is when the property owner is planning to replace their lead or GRR water service line. This may be due to wanting to remove the lead or GRR water service line or may be due to other property improvements requiring an increase in size of their water service line. Under these circumstances, the property owner will complete the following:

1. The property owner must notify the Village at least 45 days before commencing work to replace the lead or GRR water service line.
2. The Village of Deerfield requires property owners to obtain a permit for water service line replacements, which can be initiated by contacting the Village's Development and Planning Services.
 - a. The Village will provide the following information to a property owner intending to replace their lead or GRR water service line.
 - i. The replacement of the lead or GRR water service line may result in a temporary increase in lead levels for the next six months.
 - ii. Information on best practices to reduce lead in drinking water, including the flushing procedures described in [Section 6.3 Flushing Procedure After Lead Service Line Replacement](#).
 - iii. Information regarding health dangers to young children and pregnant women.

- iv. Offer to have the property's water sampled for lead in the next three to six months by the Village or Village's representative. The Village must facilitate the sample being completed, record property participation and sample results (if completed), but the Village is not required to pay for the sample.

6.2.2. Emergency Water Service Line Repair and Replacement

An emergency replacement is when property owner disturbs their lead or GRR water service line during unplanned maintenance, such as water service line leak. The property owner may temporarily repair the lead or GRR water service line and maintain water service, however by disturbing the service line, full replacement will then be required. Under these circumstances, the property owner will complete the following:

1. The property owner must provide filters in each kitchen area. The filters must meet NSF/ANSI 53 and NSF/ANSI 42 requirements for the reduction of lead and particulate.
2. If the property owner notifies the Village of the completion of the emergency repair, the Village has 30 days, or 120 days in the event of weather or other circumstances beyond reasonable control that prohibits construction, to complete the replacement of the public portion of the lead or GRR water service line.
 - a. At the time of the public side replacement, the Village will provide a Point-Of-Use Filter or Pitcher Filter meeting NSF/ANSI 53 and NSF/ANSI 42 requirements and provides up to six months of filtration. Additionally, the Village will provide notice to the property owner and occupants of the completed lead or GRR water service line replacement. The notice will include:
 - i. The replacement of the lead or GRR water service line may result in a temporary increase in lead levels for the next six months.
 - ii. Information on best practices to reduce lead in drinking water, including the flushing procedures described in Section 6.3 Flushing Procedure After Lead Service Line Replacement.
 - iii. Information regarding health dangers to young children and pregnant women.
 - iv. Offer to have the property's water sampled for lead in the next three to six months by the Village or Village's representative. The Village must facilitate the sample being completed, record property participation and sample results (if completed), but the Village is not required to pay for the sample.

6.3. Flushing Procedure After Lead Service Line Replacement

The following flushing instructions are in accordance with ANSI/AWWA C810-17 (First Edition) Replacement and Flushing of Lead Service Lines Section 4.4.2 "Flushing by the customer after lead service replacement." Property owners should follow the below flushing instructions for the day of replacement or before water is used following a lead or GRR water service line replacement to reduce particulate lead.

The steps below should be followed every two weeks for three months following replacement. Hot water should not be used until initial flushing is complete.

1. Locate all faucets in the building, including laundry tubs, hose-bibs, bathtubs, and showers.
2. Remove aerators and screens from faucets where possible, including showerheads.
3. Open faucets in the basement or lowest floor in the building. Using cold water, leave faucets running at the highest rate possible.
4. Open faucets on the next highest floor in the building, going from lowest level to the highest level in the building, until all faucets are open on all floors in the building.
5. Once all faucets are open, leave the water running for at least 30 minutes.
6. After 30 minutes, turn off faucets in the order they were opened.
7. Clean aerators or screens at each faucet.

APPENDIX A

Replacement Schedule under ILSLRNA

1. Replacement Schedule under ILSLRNA

Prior to Illinois adopting the federal Lead and Copper Rule Revisions (LCRR) and Lead and Copper Rule Improvements (LCRI), the Illinois Lead Service Line Replacement and Notification Act (ILSLRNA) governed Community Water Systems (CWSs) and set forth lead and GRR water service line replacement requirements. Below captures the previously mandated replacement requirements under the ILSLRNA and is intended to be used as reference only. Replacement rates discussed in the below sections are superseded by the newly adopted LCRI and will not be used unless as directed by IEPA.

1.1. Illinois Replacement Schedule

Under the Illinois Lead Service Line Replacement and Notification Act (ILSLRNA), a CWS’s Annual Replacement Rate was determined based on the number of lead and GRR water service lines a community has identified. Table 8 below shows the tiered rate of replacement per the ILSLRNA.

Table 1 - Lead Service Line Replacement Rate Requirements (Per Public Act 102-0613)

Total Lead and GRR Service Lines	Annual Replacement Rate	Timeline (years)	Completion Year
0-1,200	7%	15	2042
1,201-4,999	6%	17	2044
5,000-9,999	5%	20	2047
10,000-99,999	3%	34	2061
100,000+	2%	50	2077

Based on the number of lead and GRR water service lines identified, the Village of Deerfield would have been required to meet a 7% annual rate of replacement starting in 2027. Table 2 below indicates the anticipated replacements schedule based on the estimated 400 lead and GRR service lines.

Table 2 - Mandatory Lead Service Line Replacements

Year End	Known LSL	Annual Required Replacements	Planned Replacements ¹		Non-Lead	Total Service Lines
			CIP	LSLR Program		
2027	383	27	24	3	6031	6387
2028	356	27	4	23	6058	6387
2029	329	27		27	6085	6387
2030	302	27		27	6112	6387
2031	275	27		27	6139	6387
2032	248	27		27	6166	6387
2033	221	27		27	6193	6387
2034	194	27		27	6220	6387
2035	167	27		27	6247	6387

Year End	Known LSL	Annual Required Replacements	Planned Replacements ¹		Non-Lead	Total Service Lines
			CIP	LSLR Program		
2036	140	27		27	6274	6387
2037	113	27		27	6301	6387
2038	86	27		27	6328	6387
2039	59	27		27	6355	6387
2040	32	27		27	6382	6387
2041	5	5		5	6387	6387

Notes:

1. The Village will continue to update replacements accruing as a part of upcoming Capital Improvement Plan (CIP) programs versus a separate Lead Service Line Replacement (LSLR) Program.
2. At this time, the Village is estimating to have 400 lead service lines, with 17 being replaced in 2026, resulting in 383 lead service lines in the replacement pool.

Under the ILSLRNA, the Village would need to replace a minimum of 27 water service lines each year to meet the required rate of replacement. To achieve this, the Village intended to replace lead and GRR water service lines within the limits projects identified in the Village’s Capital Improvement Plan (CIP), where appropriate, in addition to a separate program specifically for lead and GRR water service line replacements.

The replacement schedule as shown in Table 3 below includes a one-year, 5-year, and 10-year and 15-year goal years, which accumulates the total replacements to be completed by that designated year.

Table 3 - Water Service Line Replacement Schedule

IEPA Goal Years	Year End	Known Lead	Cumulative Required Replacements	Non-Lead ²	Total Service Lines ³
	2026	383	0	5,987	6,387
Year One	2027	383	27	6,031	6,387
5-Year	2031	275	135	6,139	6,387
10-Year	2036	140	270	6,274	6,387
15-Year	2041	5	383	6,387	6,387

Notes:

1. At this time, the Village is estimating to have 400 lead service lines, with 17 being replaced in 2026, resulting in 383 lead service lines at the end of 2026.
2. Non-lead water service lines have been identified as copper, plastic, galvanized, cast iron, ductile iron or transite.
3. Total Service Lines is the summation of the remaining known lead and the non-lead services for each IEPA Goal Year. The Cumulative Required Replacements are already summed within the Non-Lead quantity for each IEPA Goal Year.

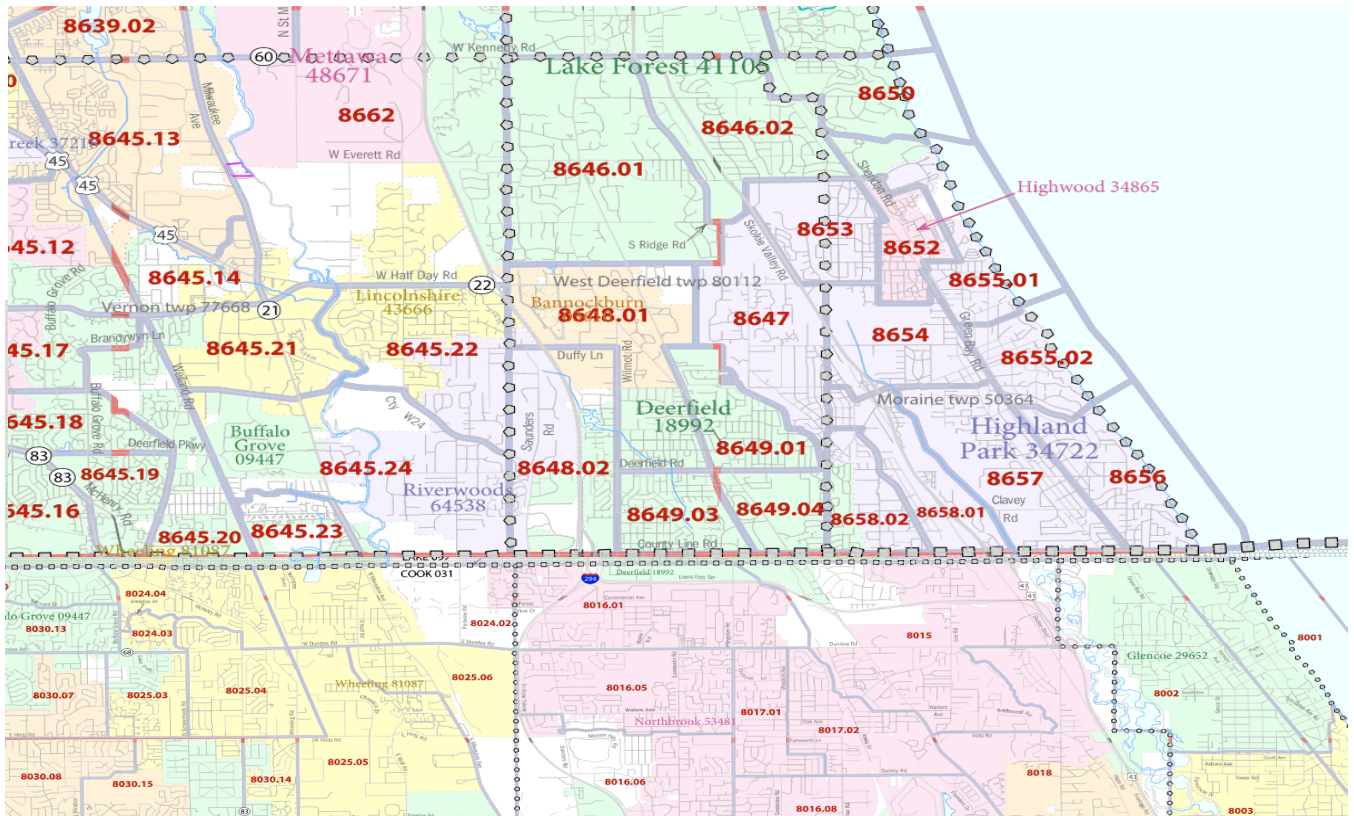
APPENDIX B

SRF Scoring – Census Tract Data

Lead Service Line Replacement Funding
 Census Metric Data and Percentile Ranks
 Data from 2021 5-year American Community Survey

Census Tract	Total Points	Median Household Income			Social Security Income			Poverty			Supplemental Security Income		
		Table B19013			Table B19055			Table S1701			Table B19056		
		Dollars	Percentile Rank	Points	% of Population	Percentile Rank	Points	% of Population	Percentile Rank	Points	% of Population	Percentile Rank	Points
Census Tract 8015, Cook County, Illinois	100	\$ 124,488	89.369	0	43.89	92.75	45	3.8	14.772	5	2.95	39.68	15
Census Tract 8016.01, Cook County, Illinois	115	\$ 86,250	69.746	10	39.33	81.909	40	8.6	42.782	20	1.85	24.047	10
Census Tract 8648.01, Lake County, Illinois	60	\$ 173,011	97.744	0	27.48	28.517	10	0.9	1.965	0	0.59	7.647	0
Census Tract 8648.02, Lake County, Illinois	25	\$ 178,068	98.114	0	16.48	5.328	0	4.6	19.963	5	2.23	29.361	10
Census Tract 8649.01, Lake County, Illinois	50	\$ 198,750	98.918	0	25.36	21.904	10	0.5	0.798	0	1.89	24.508	10
Census Tract 8649.03, Lake County, Illinois	55	\$ 168,958	97.435	0	19.37	8.484	0	3.3	11.64	5	1.32	16.339	5
Census Tract 8649.04, Lake County, Illinois	140	\$ 101,346	79.728	5	51.38	98.282	45	9.4	46.959	20	5.93	71.222	35
Census Tract 8658.02, Lake County, Illinois	60	\$ 250,000	99.721	0	26.90	26.3	10	2.4	7.063	0	0.60	7.8	0

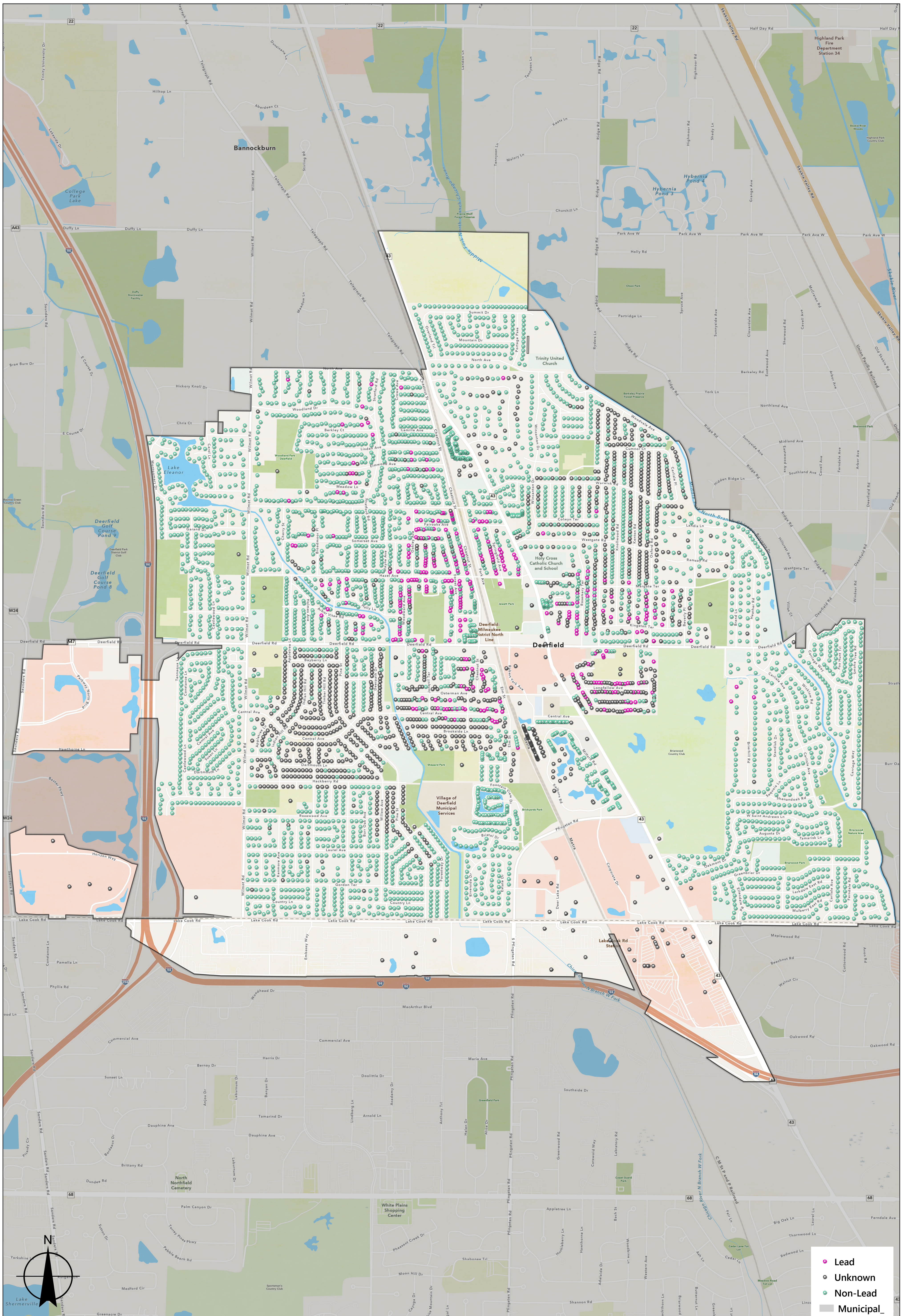
Census Tract	Houses Built pre-1990			Children Under 6			Unemployment			Lead Service Line Burden		Total Points
	Table B25034			Tables B09001 & B01003			Table S2301			%	Points	
	% of Houses	Percentile Rank	Points	% of Population	Percentile Rank	Points	% of Population	Percentile Rank	Points			
Census Tract 8015, Cook County, Illinois	78.13	42.076	20	3.96	13.478	5	3.3	24.961	10	3.8%	0	100
Census Tract 8016.01, Cook County, Illinois	62.24	20.423	10	4.55	19.22	5	5.2	48.91	20	3.2%	0	115
Census Tract 8648.01, Lake County, Illinois	70.03	29.238	10	7.08	56.063	40	1.6	6.232	0	3.2%	0	60
Census Tract 8648.02, Lake County, Illinois	47.98	11.977	5	4.38	17.592	5	1.9	8.75	0	3.2%	0	25
Census Tract 8649.01, Lake County, Illinois	80.99	47.85	20	4.37	17.439	5	2.7	17.838	5	3.2%	0	50
Census Tract 8649.03, Lake County, Illinois	77.83	41.4	20	4.81	21.645	10	3.9	32.299	15	3.2%	0	55
Census Tract 8649.04, Lake County, Illinois	58.20	17.383	5	2.20	3.561	0	6.7	63.186	30	3.2%	0	140
Census Tract 8658.02, Lake County, Illinois	94.50	81.05	40	5.22	26.466	10	1.3	4.267	0	3.2%	0	60



APPENDIX C

Material Inventory Summary

APPENDIX C - Water Service Line Material Inventory



Data maintained by and sourced from Municipal GIS Partners, Inc on behalf of the Village of Deerfield, IL - March 28, 2024

Village of Deerfield, Illinois
Lead Service Line Replacement Plan