

Lead Service Line Replacement Plan

Prepared for: The Village of Green Oaks, Illinois

Prepared by: Clark Dietz, Inc.
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Professional Consulting and Design Services

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1.0 – IDENTIFICATION OF COMMUNITY WATER SUPPLY

The Village of Green Oaks is located in Lake County, Illinois and is provided with water by City of Waukegan. The identification numbers for the City of Waukegan and the Village of Green Oaks are IL0971900 and IL0970040, respectively.

2.0 – TOTAL NUMBER OF SERVICE LINES

The Village has a total of 480 service connections, all of which are residential.

3.0 – TOTAL NUMBER OF SUSPECTED LEAD SERVICE LINES

The Village has 54 suspected lead service lines. In accordance with IEPA guidelines, services that have not been reviewed or inspected by Village staff are identified as “suspected” lead service lines. The material of these service lines are unknown however the Village is coordinating with residents to confirm service line materials. A map inclusive of all suspected lead service lines is included in Appendix A.

4.0 – TOTAL NUMBER OF KNOWN LEAD SERVICE LINES

The Village has not identified any public and/or private lead service lines in their water service inventory that require replacement to comply with upcoming State and Federal guidelines.

5.0 – REPLACEMENT OF LEAD SERVICE LINES SINCE 2020

The breakdown of lead service lines replaced since 2020 is shown in Table 1.

Table 1: Replaced Lead Service Lines Since 2020

Watermain Project Year	Lead Service Lines
2020	0
2021	0
2022	0
2023	0
2024	0
2025	0
Total	0

6.0 – PROPOSED LEAD SERVICE LINE REPLACEMENT SCHEDULE

Under the 2024 Lead and Copper Rule Improvements (LCRI), the Village is required to replace all lead service lines under their control within 10 years, corresponding to an annual replacement rate of 10%. Included in Table 2 is a replacement schedule that meets this 10-year requirement. In instances where the lead service line owner declines the replacement, a waiver will be obtained and submitted to the State. The initial year of this plan starts in 2027 to meet the regulatory requirements and all lead service lines would be removed by 2036.

Table 2: Lead Service Line Replacement Schedule

	Year	Planned LSL Replacements	Remaining LSL in System
Planning Period	2026	0	54
	2027	0	54
10-Year Proposed Lead Service Line Replacement Schedule	2028	17	54
	2029	17	37
	2030	20	20
	2031	0	0
	2032	0	0
	2033	0	0
	2034	0	0
	2035	0	0
	2036	0	0

7.0 – COST AND FINANCING ANALYSIS

Water service replacement construction costs, which consist of replacing the existing lead service line and restoration, can vary depending on the watermain location relative to the home. Replacement methods will either be (a) horizontal directional boring to install a new service line or (b) trenching along the water service to remove and replace the existing lead service line. Replacement method will be dependent on location, and in instances where horizontal directional boring is used, required separation distances from existing utilities will be met. Provided cost estimates are based upon trenching along the water service as this will result in a more conservative cost estimate. It is estimated that each public service replacement will cost \$13,500, which includes the replacement of both the public and private sections of the line. A breakdown of this estimate is calculated in Table 3. This cost estimate does not include permitting or plan review fees.

Table 3: Service Line Replacement Cost Estimate

Item	Quantity	Units	Unit Price ⁽¹⁾	Total Amount
Demolition of Existing Service Line	85	LF	\$ 75	\$ 6,375
1.5" Copper Pipe	85	LF	\$ 20	\$ 1,700
1 or 1.5" Service Tap and Connection	1	EA	\$ 4,500	\$ 4,500
Sod	450	SF	\$ 1.50	\$ 675
Post Installation Sample	1	EA	\$ 250	\$ 250
Total				\$ 13,500

⁽¹⁾ Unit price for copper pipe based off local material pricing. Service tap and connection estimate based off 2023 bid results.

The total cost for the replacement of all lead services is estimated at \$729,000.

At this time, the Village is not providing financing options or pursuing funding for replacement of the private portion of lead service lines. Given that the Village is not providing financing options, payment structures between the Village and its customers were not evaluated.

8.0 – HIGH-RISK FACILITY PRIORITIZATION PLAN

High risk facilities in the Village were cross referenced with the service line material inventory to determine if any lead service lines served high risk facilities and therefore required replacement prioritization. A list of high-risk facilities and their associated water service line material is included below in Table 4. It was determined that no high-risk facilities have lead service lines.

Table 4: High Risk Facilities.

Location	Public	Private
Oak Grove School	Ductile Iron	Ductile Iron

9.0 – LEAD SERVICE LINE MAPS

A map of all lead service lines is included in Appendix A. The inventory is underway with plans to complete the inventory Spring 2026.

10.0 – PUBLIC NOTIFICATION AND COMMENT

Should the Village identify a lead service line, they will reach out to residents of identified lead service lines regarding private lead service line replacement. Replacement will occur on a “first come, first served” basis for interested residents. In the event that a lead service line is identified, lead service line information including flushing directions will be available on the Village’s website.

If lead service lines are identified, the public can submit comments to the Village through attendance and comment at public board meetings, by phone, or email.

11.0 – MEASURES TO ENCOURAGE DIVERSITY

The Village will make a good faith effort to use contractors and vendors owned by minority persons, women, and persons with a disability for no less than 20% of the total contracts. The Village will achieve this through soliciting interest in the project through requests for bid posted through the local newspaper. This will allow for sufficient time for certified businesses to respond. Interested businesses, who are certified, will be given adequate information about the plans, specifications, and contract requirements as requested. Upon receipt of bids from interested certified businesses the Village will make a good faith effort to meet with the submitter upon request. A list of minority persons, women, and persons with disability owned businesses will be provided to bidders.

Clark Dietz, Inc.
1815 S. Meyers Road, Suite 470
Oakbrook Terrace, IL 60181

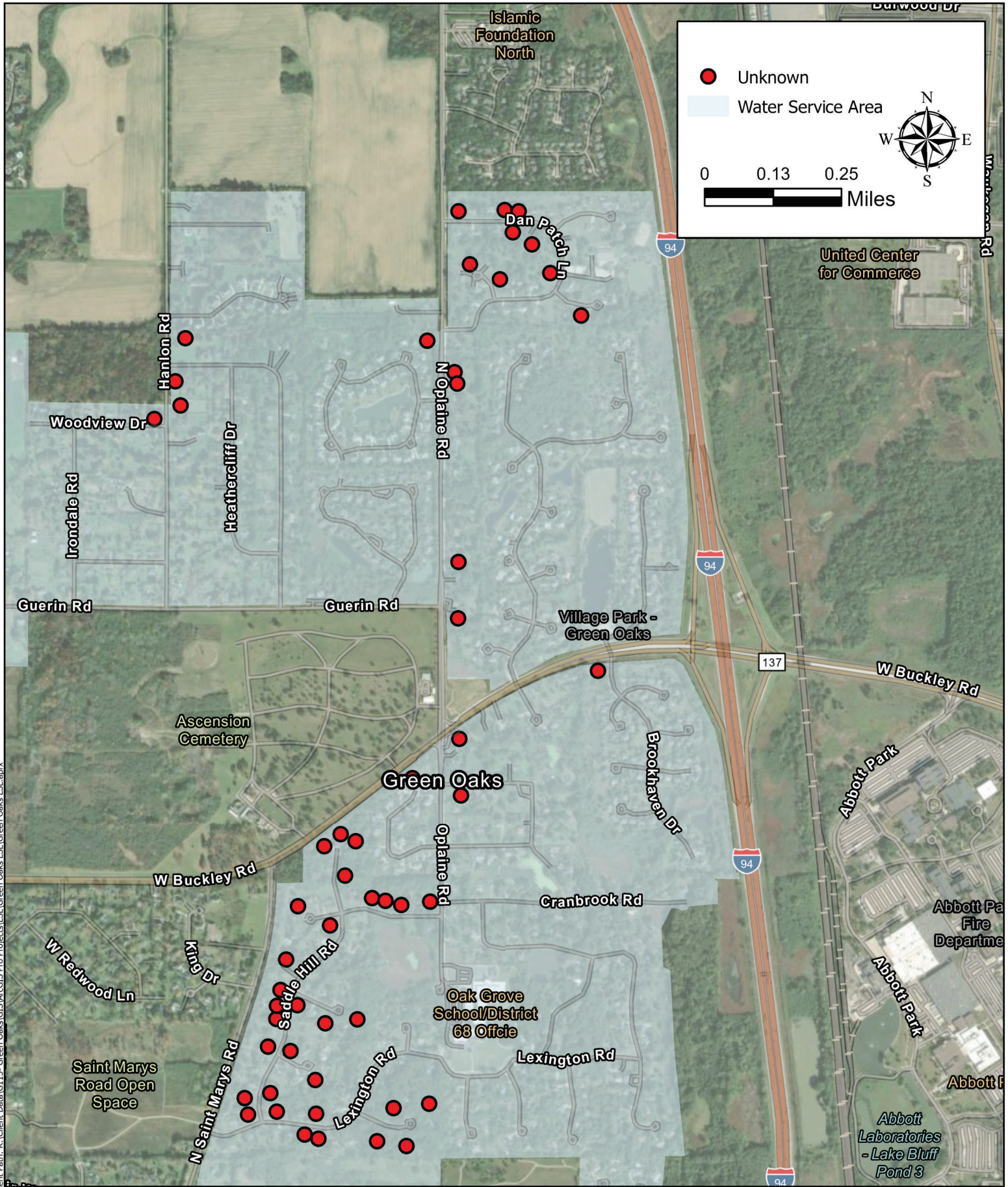
p 630.413.4130
clarkdietz.com

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Appendix A



Unknown Service Line Material Map



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