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Lead Service Line Replacement Plan

The Village Of Freeburg, PWS ID 1630600, has a total of 2173 service lines connected to the water distribution system.

The Village of Freeburg has devised a plan to conduct and maintain the Lead Service Line Inventory. Completing and maintaining the Inventory will help the Village to identify lead service lines requiring replacement. Steps to complete the Inventory are as follows:

- Gathering information from Village residents from the Cross Connection Survey results. A section will be added to identify the water line material at the point of entry into the home.
- Prioritize high risk locations in the Village. Inspections should be made to the following facilities:
 - Preschools
 - Daycare centers
 - Group daycare homes
 - Parks
 - Playgrounds
 - Hospitals
 - Doctors' offices
 - Restaurants/food or drink serving businesses
 - Dentists

- o Churches
- o Schools
- o Nursing homes
- o Assisted living homes
- Residents that do not respond will receive a second survey that will be sent out followed by a visit to the home or phone call.
- The data received will be added to the IEPA Lead Service Line Inventory spreadsheet along with any other relevant and available data, i.e. when the service lines were installed, etc.
 - o Make phone calls and home visits to residents who responded unknown to the type of material at the point of entry into the home.
- Predictive modeling/review of Village water distribution system maps/plans to determine where cast iron or ductile iron mains with possible lead goosenecks, lead service lines, and galvanized (requiring replacement) services lines are located.
- Gather information from senior/retired employees with knowledge of previous work conducted on the water system.
- Visual inspections inside homes to confirm materials from unknown responses and where little or no information is available.
- Visual inspections of service lines using excavation and hydro excavation of locations that are unknown or suspected to have lead goosenecks, lead, or galvanized (requiring replacement) service lines.
- Public Notification:
 - o Inventory and Lead Service Line Replacement Plan will be posted on the Village website.
 - o A section will be added to the annual Consumer Confidence Report informing the residents that the Inventory and Lead Service Line Replacement Plan will be posted on the Village Website.
 - o Village Board Meetings are held on the 1st and 3rd Mondays of every month and Committee Meetings are held on the 2nd and 4th Wednesdays of every month. At each of these meetings,

there is time set aside in public participation for public comment.

Steps to maintain/update the Inventory and Lead Service Line Replacement Plan are as follows:

- Continue to update the Inventory as new information is gathered.
- Continue to update the Inventory as service lines are replaced.
- Submit annually an updated Inventory and Lead Service Line Replacement Plan to the Illinois EPA.

As of this date, there are 0 suspected lead service lines in the distribution system.

Areas in the distribution system that have been identified to have cast iron or ductile iron water mains and suspected to have lead/galvanized (requiring replacement) service lines have been hydro excavated, potholed and/or visually inspected inside the residence to have found 0 lead service lines.

See Appendix A and B for mapping of areas with suspected lead goosenecks, lead, or galvanized (requiring replacement) service lines. TWM engineering firm provided these maps to the Village for the water main replacement project. The maps designate cast iron and ductile iron water mains with suspected lead goosenecks, lead, and galvanized (requiring replacement) service lines to be replaced during each phase of the project. These maps coincide with the areas that Village staff suspect could have lead goosenecks, lead, or galvanized (requiring replacement) service lines.

209 N Alton St was removed from the replacement list. Upon visual inspection in the home and at the meter connection, the service line has been found to be copper.

513 N Main St was removed from the replacement list. Upon visual inspection in the home and at the meter connection, the service line has been found to be copper.

Lead/Galvanized service lines replaced since 2020

Since 2020, these 3 locations were found to have either a lead goosenecks, lead, or galvanized (requiring replacement) service line:

2/22/21 – 312 East High St. – Replaced lead goose neck and galvanized service line to the meter with $\frac{3}{4}$ inch copper tubing and installed new lead-free corp. stop and tapping saddle. The customer side of the meter had already been replaced with copper tubing.

6/5/23 – 101 South Vine St. – Replaced lead goose neck and galvanized line from main to inside the house with $\frac{3}{4}$ inch copper tubing and installed new lead-free corp. stop, tapping saddle and yoke. The customer replaced the galvanized service line from the meter to inside the home with $\frac{3}{4}$ inch copper tubing.

2/29/24 – 402 North Main St. – Replaced leaking lead service line from the main to inside the home with $\frac{3}{4}$ inch copper tubing, new lead-free corp. stop, tapping saddle and yoke.

Proposed Lead Service Line Replacement Schedule - Goals

If any lead goosenecks, lead, or galvanized (requiring replacement) service lines are found in the coming years through repairing water leaks, main break repairs, etc. those service lines will be replaced in a very timely manner on an as needed basis. Monies are budgeted yearly in the water department for infrastructure repair and other professional services (contractors, plumbers, etc.).

We estimate the cost for the Village to replace a lead gooseneck, lead, or galvanized (requiring replacement) service line to be \$5,000 - \$10,000 depending on the extent of the replacement.

- Crew – 2-3 employees @ \$33.00/hour per employee
- Time – 6- 8 hours
- Equipment – Mini Excavator, Hydro Excavator, Boring Machine, Trencher, Dump Truck, Skid Steer and Backhoe – each used depending on the extent of the replacement.
- Supplies – Main repair clamp (if necessary) plastic tubing, tracer wire, compression coupling, stiffeners, tapping saddles, corporation stop, meter yoke, meter (if necessary) , meter barrel, collar and lid, radio read transponder and various fittings to make the connection inside the residence.

The Water Main Replacement Project is being submitted to the IEPA in several phases over the next 5 years to replace the existing and aging cast iron/ductile water mains in the distribution system. As the water mains are replaced, any lead goosenecks, lead, or galvanized (requiring replacement) service lines will be replaced in collaboration with Village staff, contractors, and/or plumbers.

The Village of Freeburg is a small community of 4500 people and a water/sewer department crew of three. Our goal is to have the 24 identified lead goosenecks, lead, or galvanized (requiring replacement) service lines to be replaced in the next 1-3 years with the monies available through the annual water department budget, replaced during the water replacement project, or through grant opportunities with most of the work performed by Village staff. Coupled with the Water Main Replacement Project that will replace the existing cast iron/ductile mains in the water distribution system over the next 5 years in phases should eliminate nearly all possibilities of lead goosenecks, lead, or galvanized (requiring replacement) service lines in the water system. Replacing the water mains will be done by an outside construction/plumbing contractor with a contract awarded by a bidding process. While the water mains are being replaced, any lead goosenecks, lead, or galvanized (requiring replacement) service lines will be replaced as

part of a co-effort between the contractor, Village staff and a plumber at time of construction.

The Water Main Replacement Project will be funded by a low interest loan with IEPA using the State Revolving Funds (SRF). The Village passed a water rate increase in November of 2023 to reflect the monies needed to cover the cost of the loan.

The Village has hired TWM Engineering Firm to engineer the Water Main Replacement Project. The project plan has been submitted to IEPA. TWM is working with Chad Rice of the IEPA with the permitting and funding procedures.

Currently, TWM has crews working on surveying the areas of main replacement and working with Prairie Archaeology and Research to conduct a Phase 1 Cultural Resource Survey and Report for the Waterline Improvement Project. The Cultural Resource Survey and Report was requested by the Osage Nation Historic Preservation Office.

Update: The Phase One Cultural Resource Survey has been completed.

The goal is to have our project “shovel ready” for bypass funding that is awarded in January 2025 or the annual loan funding which will be available in July 2025. If Freeburg is awarded funding the project will proceed with bidding the project and hopefully begin construction in the late fall 2025.

Update: The Village of Freeburg was not awarded bypass funding in January 2025 and we are looking toward the annual loan funding that will be available in July 2025.

Cost Analysis and Affordability of Lead Service Line Replacement

The projected cost for the Water Main Replacement Project is \$5,738,504.00. See Appendix C for a detailed breakdown of the budget for the project. The waterline replacement is divided into 3 phases hopefully

conducted in the next three years. The Village, along with Illinois Rural Water, conducted a water rate study in 2023 and in November 2023, passed a 3-year incremental rate increase. The rate increase will provide financial stability to the Water Fund for the loan repayment and addressing service line replacements.

It is our understanding from TWM that during the water main replacement project, if any lead goosenecks, lead, or galvanized (requiring replacement) service lines are discovered, those associated costs can be added to the loan.

Our plan is to keep the added cost to the loan down and expedite the replacement of service lines during the main replacements by having Village staff and a plumber replace any lead goosenecks, lead, or galvanized (requiring replacement) service lines.

Any single lead gooseneck, lead, or galvanized (requiring replacement) service line that is discovered through investigation, water leaks, water main break, etc. will be replaced by the Village water/sewer department staff. There may be situations with property owners or structures where the Village will hire a private contractor/plumber to perform the necessary work. Those costs will be paid through the annual water department budget.

Using Village staff and equipment instead of a private contractor or plumber will allow the Village to keep costs of replacements affordable to the Village and their residents. The Village has a very capable staff and the proper equipment to complete a service line replacement. We do not foresee any type of service shut off for customers in relation to the cost-of-service line replacement. The Village Board and staff, along with Illinois Rural Water, conducted a thorough water rate study in determining an affordable rate increase to the residence. Part of this process was to implement the rate increase over time. Initially, an incremental increase over ten years was discussed. The Village Board came to a decision to start with the first 3 years of the rate increase. At the end of the 3 years, the

Village Board will review the financial status of the water fund and make changes to the rate accordingly.

The Village along with TWM Engineering will continue to look for grant/funding opportunities. The Village has recently appointed a full-time engineer and some of his duties will be applying for funding/monies to assist Freeburg in lead service line replacements.

Whenever the Village is preparing/awarding contracts to address Lead Service Line Replacements, Village staff and hired contractors will be made aware of 415 ILCS 5/17.12 section N, addressing diversity and showing good faith effort to use contractors and vendors owned by minority persons, women, and persons with a disability, as those terms are defined in section 2 of the Business Enterprise for Minorities, Women, and Persons with Disabilities Act.

Conducting Lead Service Lines Replacements

The Village of Freeburg has created a plan to assist with the completion of any and all lead service line replacements. The first step of this plan was to create a checklist to ensure that all the appropriate steps are taken when replacing a lead service line. This checklist, attached as Appendix D, will include any information relating to the home, homeowner and/or residents, a pre inspection, and a post inspection. A Lead Informational Notice was created, see Appendix E, to inform the resident that their home has a lead service line and some frequently asked questions about lead in water from pipes and plumbing. A Lead Service Line Replacement Form, see Appendix F, was also created to confirm the homeowner will allow the Village to perform the lead service line replacement. The Village also created a Lead Flushing Instructions flier, attached as Appendix G, to inform residents of how to flush any potential lead from the water service lines.

The first page of the checklist includes the address where the replacement is taking place, resident contact information, the date the

resident was notified of a lead service line needing replaced, acknowledgement that the homeowner and/or resident received the Lead Informational Notice, signed the Lead Replacement Form, confirmation that the homeowner received the Lead Flushing Instructions, acknowledgment that the customer allows the Village to replace the lead service line, and information about the IDPH waiver if the work is refused by the homeowner, along with a comment section to explain why the customer refused the work to be completed.

The second page of the checklist is a pre inspection report. This is to report on items such as what existing materials make up the service line to be replaced, photos of the service line at the point of entry into the home, addresses, dates notified, and who notified residents upstream and downstream of the location where the work will be performed, a section to allow for any comments about the pre inspection, and who conducted the inspection.

The final page of the checklist is a post inspection report. The post inspection is to report on items such as what service line materials replaced the existing lead service line, how the new service line was installed, who performed the work, contact information for contractors, work performed by each contractor, dates contractors performed any work, photos of the water service point of entry, a section for any comments about the work that was performed, and who conducted the inspection.

Informing Customers of Lead Service Lines

The Lead Informational Notice, attached as Appendix E, was created by the Village to inform its affected residents about potential lead service lines to their home and some of the steps that the Village is taking to address the lead service lines. This notice also has some frequently asked questions about lead service lines and answers to those questions. The last page of this notice has the phrase "This notice contains important information about your water service and may affect your rights. We encourage you to have this notice translated in its entirety into a language

you understand and before making any decisions that may be required under this notice” translated into the 9 languages as required by Public Act 102-0613.

The Lead Service Line Replacement Form, attached as Appendix F, explains some of the items that the Village is required to complete under Public Act 102-0613. This form explains that any lead gooseneck, lead, or galvanized (requiring replacement) service lines at no cost to the property owner. It states that there may be a disruption in the home at the point of entry into the home. It explains how they can refuse the replacement and steps to take if they wish to refuse the replacement. The homeowner will sign this form stating that they will allow the Village and its potential contractors to perform the work in the house to complete the lead service line replacement.

The Lead Flushing Instructions, attached as Appendix G, states that the Village and/or its contracts are going to begin construction and/or maintenance on the water distribution system and this work may cause adversely affect lead levels (if present) in the water distribution system or any lead gooseneck, lead, or galvanized (requiring replacement) service lines connected to the water distribution system if any are connected in the vicinity of the work being performed. Included is a section stating the project start and projected end date and a description of the work being performed. The second page of this notice explains how to flush water lines in the home and explains some safe-practices and precautions to take during the length of the project. Also included on the second page of this notice is instructions on how the resident can have their water tested for lead and steps to take if the lead level in their water exceeds 15 ug/L.