



Kincaid Water System Improvements PEID Public Hearing Agenda



PROJECT NAME: Village of Kincaid Water System Improvements
TIME/DATE: Monday, July 11, 2022, 6:45 p.m.
LOCATION: Kincaid Village Hall

I. Introductions/Contact Information

- A. Chastain and Associates LLC
 - 1. Project Manager: Mark Bingham
 - 2. Telephone Number: 217-859-7634 (Mark)

- B. Illinois Environmental Protection Agency
 - 1. Project Manager: Lanina Clark
 - 2. Telephone Number: 217-782-2027

II. Project Description

The Village of Kincaid is proposing to make improvements to the distribution system.

- A. The installation of 768 new water meters and various water mains throughout the service area. This project will also include the replacement of cast iron mains with PVC pipe within the distribution system.

- B. The replacement of any lead service lines (LSL) identified within the communities of Kincaid and Bulpitt. Currently the Village of Kincaid has not identified any existing LSLs within these two communities. Part of the planning costs included in this project will be used for the completion of potholing to identify any LSLs within the Kincaid/Bulpitt distribution system. Any LSLs identified will be replaced as part of this project.

- C. The replacement of transite water mains and the construction of 6,400 linear feet of new water main.

- D. The construction of a new 100,000-gallon elevated water storage tank, minor repairs to the existing 100,000-gallon elevated storage tank and looping of several water mains located within the distribution system.



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III. Project Justification

The water mains located within the distribution system in several locations are beyond their useful life. Water main breaks are a common occurrence after harsh winters and periods of severe drought. The water mains located within the Bulpitt area are heavily corroded. Due to this, there are several instances of water discoloration and heavy water loss within this area.

In addition, several of the water meters are being used past their useful life. Replacement of the meters will allow for a more accurate reading of customer water usage and will increase the operating efficiency of the system.

The removal and replacement of LSLs as well as watermains made of transite pipe will bring the Village into compliance with IEPA standards. Looping of watermains will improve water pressure within the piping system and reduce the occurrence of stagnant water.

The construction of a new 100,000-gallon water storage tank will allow for Kincaid to have the water storage capacity of at least twice the daily water consumption of its customers. The existing 100,000-gallon water tower does not meet the IEPA guidelines on water storage requirements.

IV. Phase 1 Timeline

- A. Estimated Construction Start Date: October 2022
- B. Estimated Construction Completion Date: October 2023

V. Environmental Review and Impacts

- A. Construction noise, dust, soil, erosion.
- B. New service lines will need to be flushed.
- C. All required signoffs received.



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VI. Total Project Cost Breakdown

TOTAL PROJECT COST BREAKDOWN*					
DESCRIPTION	PHASE 1		PHASE 2		PHASE 3
	DIV A	DIV B	DIV A	DIV B	
Planning & Design Engineering	\$ 106,304	\$ 55,220	\$ 142,780	\$ 253,660	\$ 151,250
Construction Engineering	\$ 106,304	\$ 55,220	\$ 142,780	\$ 253,660	\$ 151,250
Other Professional Services	\$ 53,152	\$ 27,610	\$ 71,390	\$ 126,830	\$ 75,625
Construction Cost	\$ 1,063,040	\$ 552,200	\$ 1,427,800	\$ 2,536,600	\$ 1,512,500
<i>Opinion of Probable Project Costs</i>	<i>\$ 1,329,000</i>	<i>\$ 691,000</i>	<i>\$ 1,785,000</i>	<i>\$ 3,171,000</i>	<i>\$ 1,891,000</i>

**Based on PPR submitted to IEPA in July 2021*



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VII. Phase 1 Project Affordability for Residents and Utility Customers

	PHASE 1		PHASE 2		PHASE 3
	DIV. A Water meters replace + 6,900 LF Watermain Replace	DIV. B Potholing for LSLs	Div. A 13,700 LF watermain replace	Div. B LSL Replace	
Estimated Eligible Loan Amount	\$ 1,329,000	\$ 691,000	\$ 1,785,000	\$ 3,171,000	\$ 1,891,000
Estimated Principal Forgiveness	\$ 400,000	100%	\$400,000	100%	\$400,000
Estimated EPA Loan Amount	\$ 929,000	0	\$ 1,385,000	0	\$ 1,491,000
<i>Current (IEPA FY 2023) Base Interest Rate</i>	<i>1.17%</i>	--	<i>1.17%</i>	--	<i>1.17%</i>
Small Community Rate = 0.75 * 1.17% (MHI < Avg State MHI)	0.88%	--	0.88%	--	0.88%
Environmental Impact Discount	0.2%	--	0.2%	--	0.2%
Estimated Incentive Based Interest Rate	0.68%	--	0.68%	--	0.68%
Expected Loan Term Length (Years)	20	--	20	--	20
Approximate Annual Loan Repayment	\$ 50,000	--	\$ 75,000	--	\$ 80,000

VIII. Public Comment