

### Project Plan Lead Service Line Replacement

August 2019
Revised October 2019

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### INTRODUCTION

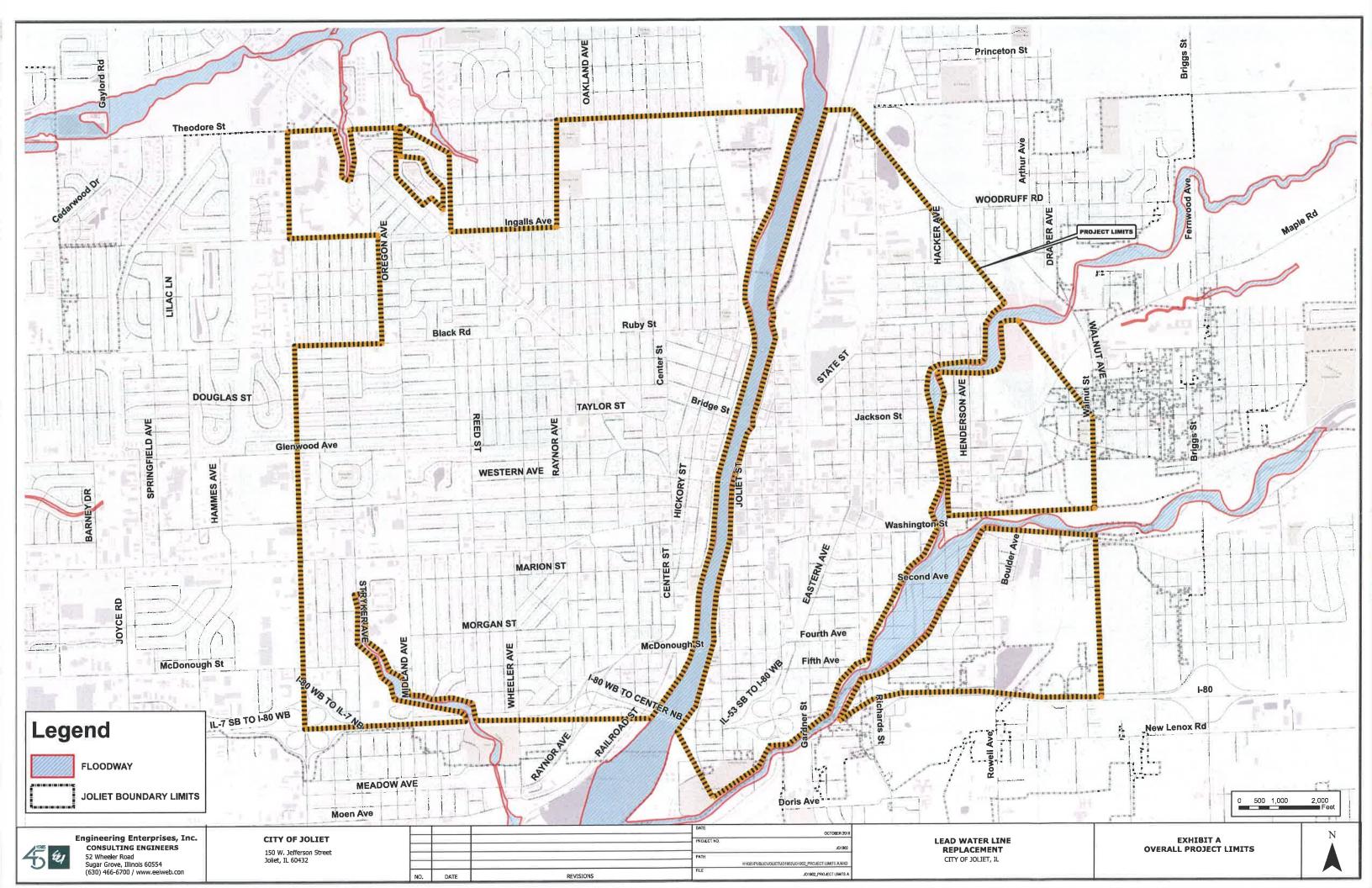
The City of Joliet is currently in the process of inventorying all water service line materials within a suspected "lead service area". The suspected lead service area (aka project limits; see Exhibit A) is defined by the age of the home; more specifically, homes built prior to the late 1930's when the City banned lead water service lines.

To date the City has inventoried over 1,500 homes. Beginning in 2019, lead services identified during a water main replacement project or found to be leaking have been replaced using City funds. These lead services have been abandoned and replaced with copper in their entirety (i.e., no active lead between the main and the meter) at zero cost to the property owner.

Lead services identified but not disturbed or leaking are subject to the City's Cost Sharing Program. This program offers:

- No Interest loans offered to property owners for the private side replacement (bbox to meter) of the lead service
- City replacement of the public portion (main to b-box) of the lead service
- City will coordinate all work with Contractor(s)
- Water sampling at no cost to the property owner

The City's goal is to acquire IEPA low interest loan funding for lead service line replacement within the project area over the course of the next five years (2020-2024). On an annual basis, the City will continue to target select neighborhoods to complete inhouse inspections to determine the service line material. Services found to be lead on the private side (only), public side (only), or lead from the main to the meter (public and private side) will be marked for replacement. The number of services replaced on an annual basis will vary depending on available funds.



Item 1: Loan applicant's, total population served by the applicant, customer base, and project location information.

### 1.1 Location and Land Use

The City of Joliet is primarily located in Will County with a small portion of the western limits located in Kendall County (see Exhibit B). Land use within the existing City limits includes a mixture of residential, business, and industrial districts (see Exhibit C).

The project area is generally bound by I-80 to the south, Theodore Street to the north, Larkin Avenue to the east, and Bridge Street to the west. The project area excludes anything within the floodway. There are approximately 17,300 parcels within the project area, comprised of residential (predominant) and industrial uses. The proposed project work would occur within City rights of way and on private property where lead service lines are present.

Latitude and Longitude of the approximate center of the project limits are:

41.5250° N

88.0817° W

### 1.2 Population and Customer Base

The City of Joliet distributes potable water to consumers within the limits of the City as well as to residents within nearby unincorporated subdivisions. Currently the City has approximately 49,719 water system accounts (see Table 1).

At the time of the 2010 census, the City of Joliet had a population of 147,433. CMAP's 2050 population projection for the City is 206,995. The population increase in the 30-year period from the 2010 census to the 2050 projection is an increase of 40.4%. This represents an annual increase of 1.0%.

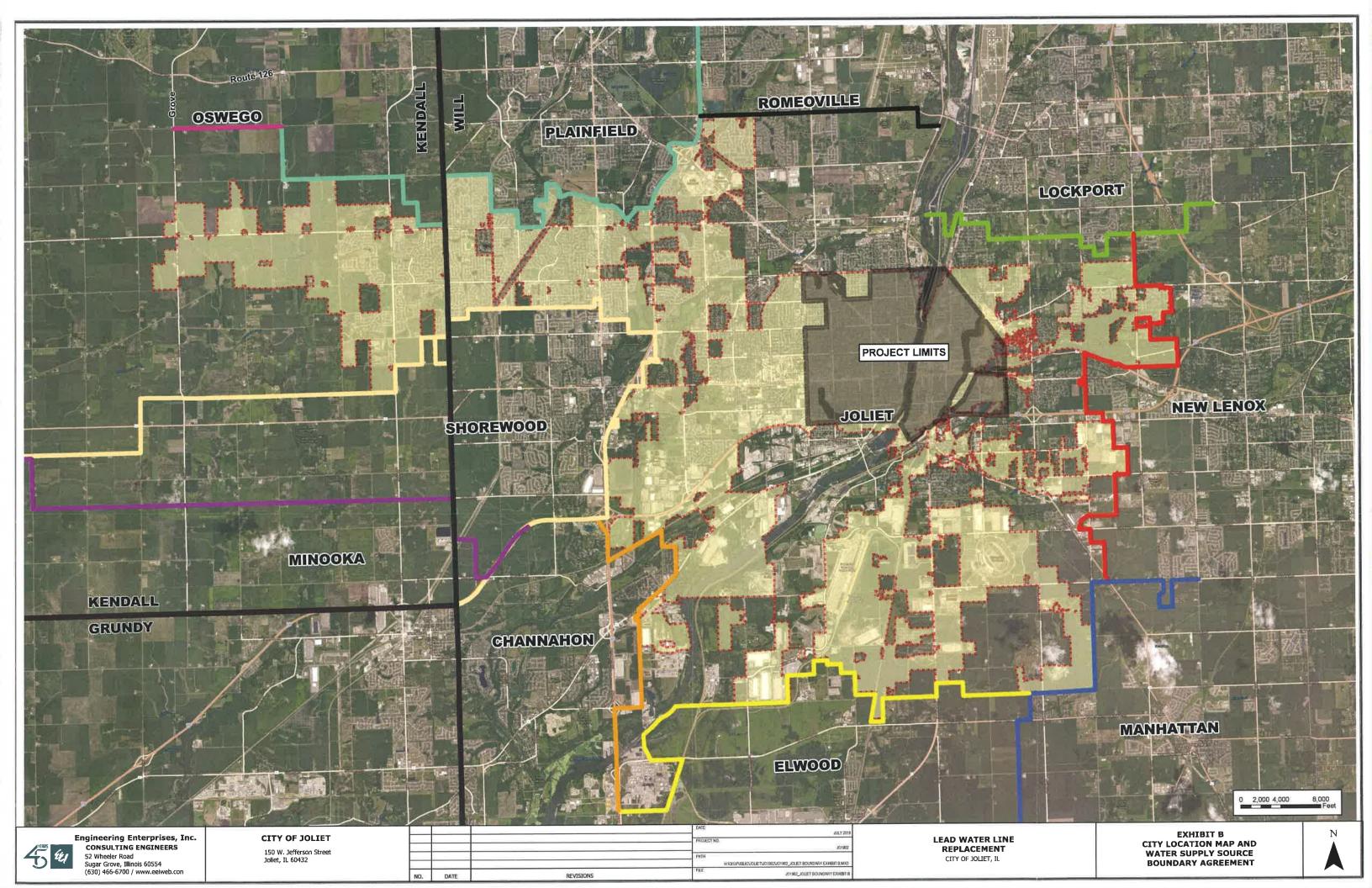
It is assumed the population that will benefit the most from this project will be the residential owners, as residential districts comprise the largest portion of the project

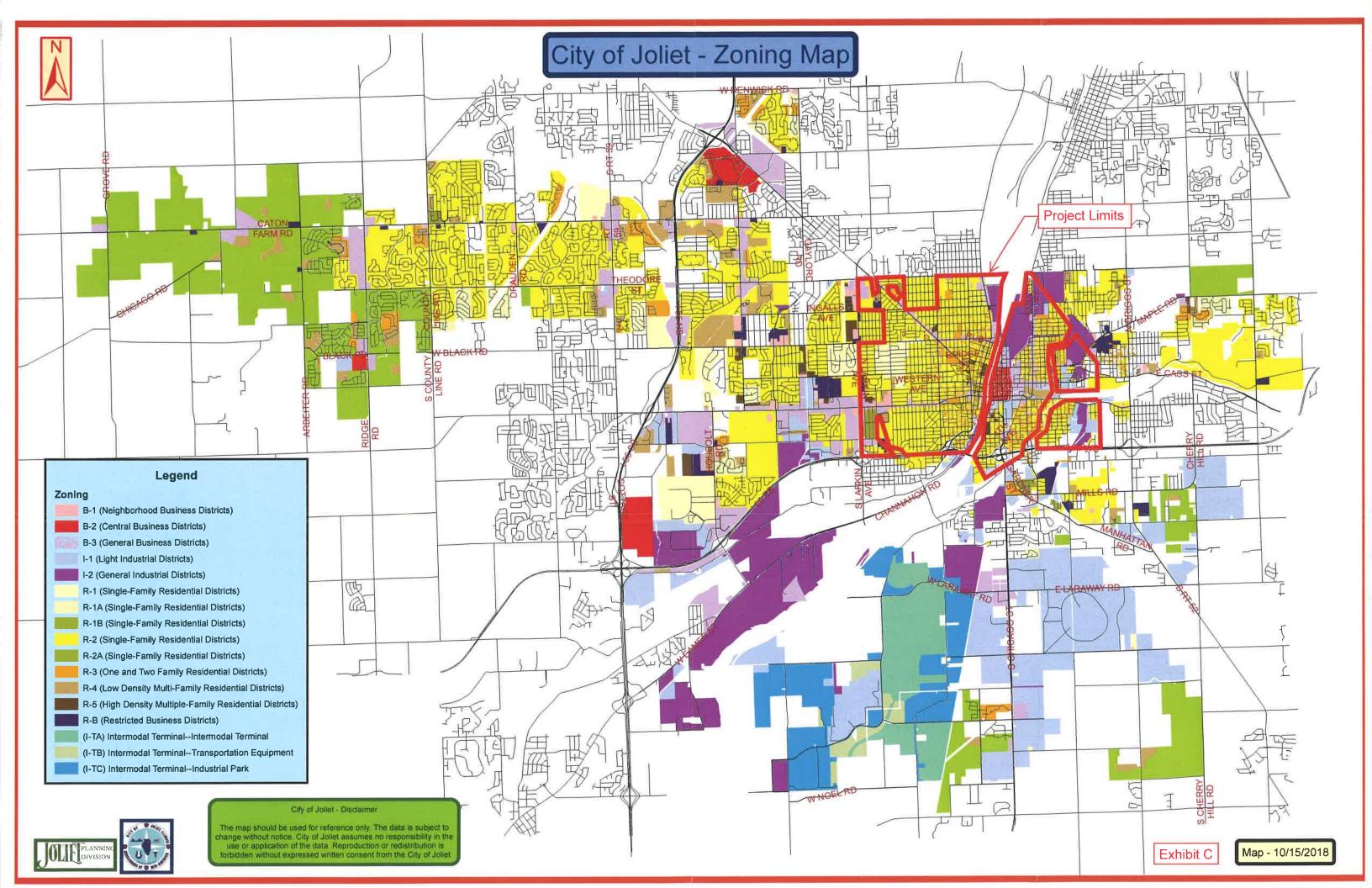
area (see Exhibit C). The exact location and type of consumer benefiting from a lead service line replacement will be determined on an annual basis.

Table 1: 2018 Water Account Data

ACCOUNT TYPE	INSIDE/OUTSIDE	# OF ACCOUNTS
RESIDENTIAL - OWNER	INSIDE	29675
RESIDENTIAL - TENANT	INSIDE	7880
RESIDENTIAL - SENIOR	INSIDE	5054
RESIDENTIAL - MULTIOWNER	INSIDE	539
RESIDENTIAL - MULTITENANT	INSIDE	2577
RESIDENTIAL - MULTISENIOR	INSIDE	372
COMMERCIAL	INSIDE	2371
INDUSTRIAL	INSIDE	57
GOVERNMENTAL	INSIDE	185
SPRINKLER	INSIDE	233
FIRELINE	INSIDE	407
RESIDENTIAL - OWNER	OUTSIDE	198
RESIDENTIAL - TENANT	OUTSIDE	121
RESIDENTIAL - MULTIOWNER	OUTSIDE	7
RESIDENTIAL - MULTITENANT	OUTSIDE	14
COMMERCIAL	OUTSIDE	13
GOVERNMENTAL	OUTSIDE	13
SPRINKLER	OUTSIDE	2
FIRELINE	OUTSIDE	1
2018 TOTALS		49719

Inside = Incorporated
Outside = Unincorporated





# Item 2: Detailed description of the EXISTING public water supply source(s), treatment facilities, water storage facilities, and distribution system.

The City of Joliet Water Works System consists of 4 reservoirs, 5 elevated tanks, 1 standpipe, 21 deep wells, 5 shallow wells, 11 water treatment plants, and approximately 642 lineal miles of water main ranging in size from 2 inches up to 24 inches in diameter.

With the exception of Section 2.6, the following data is taken from the "Five Year Water Distribution System Rehabilitation Program" (June 2016) report prepared by Baxter & Woodman Consulting Engineers for the City of Joliet.

### 2.1 Water-Producing Wells

The City's existing water supply comes from 21 deep wells and five shallow wells. A summary of the physical features of each well is provided in Table 2.

TABLE 2
Summary of Physical Features of Existing Wells

Well Name	Year Drilled	Depth (ft)	Capacity (gpm)	Well Type	Well House
Well 5D	195 <mark>1</mark>	1,609	±1,000	Dolomite Rock	Yes
Well 10D	1970	1,487	985	Dolomite Rock	Yes
Well 11D	1975	1,623	790	Dolomite Rock	Yes
Well 12D	1975	1,557	870	Dolomite Rock	Yes
Well 15D	1997	1,566	1100	Dolomite Rock	Yes
Well 16D	1998	1,566	965	Dolomite Rock	Yes
Well 17D	2000	1,525	1216	<b>Dolomite Rock</b>	Yes
Well 18D	2000	1,460	1000	Dolomite Rock	Yes
Well 20D	2003	1,556	1200	<b>Dolomite Rock</b>	Yes
Well 21D	2003	1,555	1200	Dolomite Rock	Yes
Well 22D	2005	1,618	1000	<b>Dolomite Rock</b>	Yes
Well 23D	2005	1,655	1000	Dolomite Rock	Yes
Well 24D	2006	1,663	1000	<b>Dolomite Rock</b>	Yes
Well 25D	2005	1,533	±1,000	Dolomite Rock	Yes
Well 27D	2006	1,523	±1,000	<b>Dolomite Rock</b>	Yes
Well 28D	2006	1,554	±1,000	Dolomite Rock	Yes
Well 29D	2010	1,548	±1,000	<b>Dolomite Rock</b>	Yes
Well 30D	2011	1,635	±1,000	Dolomite Rock	Yes
Rock Well R1	1951	1,660	875	<b>Dolomite Rock</b>	Yes
Rock Well R2	1951	1,700	980	Dolomite Rock	Yes
Rock Well R3	1951	1,640	865	<b>Dolomite Rock</b>	Yes

Gravel 101	2006	127	±500	Gravel	No
Gravel 102	2005	100	±500	Gravel	No
Gravel 103	2006	85	±500	Gravel	No
Gravel 104	2005	100	±500	Gravel	No
Gravel 105	2005	95	±500	Gravel	No

### 2.2 Water Treatment

The City has 11 water treatment plants (WTPs), constructed between 2005 and 2010, to remove naturally occurring radium found in the City's groundwater. The 11 WTPs are capable of treating 34.6 MGD. An additional 1.4 MGD could be treated by adding an eighth Hydrous Manganese Oxide (HMO) filter vessel to the Black Road WTP. A summary of the physical characteristics of each WTP is presented in Table 3.

TABLE 3
Summary of Physical Features of Water Treatment Plants

Treatment Plant Name	Capacity (MGD)	Source	No. of Filter Vessels
Washington Street WTP	1.4	5D	1
Fairmont and Garvin WTP	8.6	R1, R2, R3, 24D, 101, 102, 103, 104, 105	6
WTP 30D	1.4	30D	1
WTP 10D	2.9	10D, 22D	2
WTP 11D	2.9	11D, 23D	2
WTP 12D	1.4	12D	4
WTP 15D	1.4	15D	1
WTP 16D	1.4	16D	1
WTP 18D	1.4	18D	1
WTP 29D	1.4	29D	1 -
Black Road WTP	8.6	17D, 20D, 21D, 25D, 27D, 28D	7

### 2.3 Water Storage

The City currently provides 16.5 MG of storage with four reservoirs, five elevated tanks, and one standpipe. Constructed between 1956 and 2006, the reservoirs provide a total storage of 9.0 MG. The tanks and standpipe were constructed between 1997 and 2009 and provide 7.5 MG of storage. The locations, capacities, and overflow elevations are summarized in Table 4.

TABLE 4
Summary of Physical Features of Water Storage Facilities

Name	Zone	Capacity (MG)	Туре	Overflow Elevation
Essington Reservoir 10D	High	2	Below-grade concrete	607
Ingalls Reservoir 11D	High	2	Below-grade concrete	618
Prairie and Campbell Reservoir	High	1	Below-grade concrete	663
Fairmont and Garvin Reservoir	Ridgewood / Low	4	Torospherical Roof Ground Level Steel	690
Ridge Road Standpipe	High	3	Ellipsoidal Roof Standpipe	774
Rock Run Water Tower	High	1	Spheroid	772
Louis Joliet Mall Water Tower	High	1	Spheroid	772
Campbell Street Water Tower	High	1	Torospherical Vertical Shell Multi-leg	772
Parkwood Water Tower	Ridgewood	1	Spheroid	790
Laraway Road Water Tower	Southeast	1.	Double Ellipsoidal Multi-leg	772

### 2.4 Water Distribution System

The City maintains a water distribution system with pipes ranging in size from 2 inches up to 24 inches in diameter. Based on data currently available, the exact length of water main in the distribution system is not known but it is estimated at approximately 642 miles.

### 2.5 Existing Daily Average and Maximum Water Usage

Average daily water consumption for 2018 was approximately 19.0 MG with a peak maximum daily demand of approximately 22.436 MG occurring in August 2018.

### 2.6 System Deficiencies

The City experiences, on average, 250 water main breaks per year for approximately 642 miles of water main. In 2014 alone, the City experienced 304 breaks. This averages to approximately 39 breaks per 100 miles of main, far greater than the 25 or fewer breaks per year per 100 miles of water main recommended by the American Water Works Association (Distribution System Performance Evaluation, 1995) (AWWA) as the

maximum number of breaks a utility should be willing to tolerate. These breaks have a significant impact on the City's expenses because the City not only pays for the labor, equipment and materials to make the repairs, but also must pay for the water that is lost. Water main breaks result in lower water quality, decreased capacity in the distribution system, wasted water resources, a risk to the crews that must repair them, an inconvenience to the public that relies on a consistent water supply and potentially long-term damage to the surrounding areas.

With respect to lead service lines, a water break and repair can lead to a physical disturbance of a lead service. The City has currently identified approximately 600 services constructed with lead (partial or full) and continue to identify and catalogue service material on a regular basis. The number of known lead services is guaranteed to increase. Having lead present in the water distribution system means there is a risk for increased lead levels in water consumers beyond regulatory limits should lead services be disturbed.

Item 3: Project description that explains the need and justification of the proposed project, including the benefits of the project.

It is the City's intent to remove lead service lines from its water system. The scope of work will be the replacement of lead service lines from the water main to the water meter inside the residences. The exact location and number of water services replaced per year over the course of the next five years following loan approval is currently unknown and will depend on available financing and the continuing efforts by the City to identify and catalog existing lead services.

The new water services will be installed via trenchless methods (directional drilling or lead service extraction). Trenchless installation has less impact on public and private property and is therefore cheaper than traditional open cut excavation.

Lead water service lines are being replaced as a preventative measure against lead exposure. The main project benefit is the reduction/elimination of the Public's potential exposure to lead when consuming potable water from the City's distribution system.

Item 4: Discussion of the system's compliance with all applicable laws and regulations governing public water systems.

Currently there are no violations of State or federal laws. The City has not exceeded the IEPA Lead and Copper Rule (lead levels exceeding 15 ppb – 90<sup>th</sup> percentile action level).

Item 5: Basis of design for chosen alternative.

See Item 3 above. The project will be designed in accordance with 35 III. Adm. Code 651 through 654 and AWWA/ANSI Standard C810-17 "Replacement and Flushing of Lead Service Lines".

Item 6: Inventory of environmental impacts of selected alternative, a discussion of the required mitigation measures, and a completed IEPA Loan Applicant Environmental Checklist form with sign-off documentation.

### 6.1 General

As part of this assessment, the City has requested comments and/or received sign-offs from the following entities (see Appendix A):

- Illinois Historic Preservation Agency, Preservation Services Division
- Illinois Department of Natural Resources Review and Coordination, Endangered and Threatened Species Program (EcoCAT)

### 6.2 Temporary Impacts

There will be some temporary impacts to the environment during construction (i.e. dust, noise emissions due to construction equipment, minor soil erosion and sedimentation, and some minor traffic disruptions), but these impacts will be relatively short in duration, create no long-term environmental effects, and would be virtually impossible to completely eliminate. The temporary impacts during construction will be minimized through provisions defined in the plans and specifications (i.e. implementation of soil erosion and sedimentation controls, proper traffic control, set construction hours, etc.). The benefits of the completed project which will remove lead water service lines from the City will far outweigh the minimal temporary impacts during construction.

### 6.3 Floodway and Floodplain Impacts

The project limits do not include regulatory floodway. Project work will be limited to underground water service improvements with no changes or additions to the above grade existing conditions. No construction will be performed within stream banks or wetlands.

### 6.4 Archeological and Historic Preservation

The City of Joliet requested a review of the project by the Illinois Historic Preservation Agency (IHPA) on June 20, 2019, subject to Section 106 of the Illinois State Agency

Historic Resources Preservation Act (20 ILC 3420/6) for private undertakings. A sign-off from IDNR was received on July 9, 2019 indicating no historic properties are affected.

### 6.5 Rare and Endangered Species Impacts

The City of Joliet requested a review of the project by the Illinois Department of Natural Resources (IDNR). Letters from the IDNR were issued on June 24, 2019 stating that the review provided by EcoCAT was completed and concluded that adverse effects were unlikely.

### 6.6 Wetland Impacts

Project work will be limited to public rights of way where the water main is located and on private property. Due to the location and method of construction (trenchless) wetland disturbances are not anticipated. In addition, if wetlands are identified <u>adjacent</u> to the construction area, the appropriate precautions (i.e. soil erosion and sedimentation control) will be implemented during construction to ensure the special aquatic sites are not detrimentally impacted. However, as stated previously, disturbance of wetlands is not anticipated.

### 6.7 Agricultural Land and Open Space Impacts

The project area is predominately comprised of residential and business districts. No agricultural land is present within the project limits. Also, there will be no permanent impacts to open space or recreational areas.

### 6.8 Stream Crossings

No stream crossings have been identified as a part of the construction of the improvements.

### 6.9 Air Quality Impacts

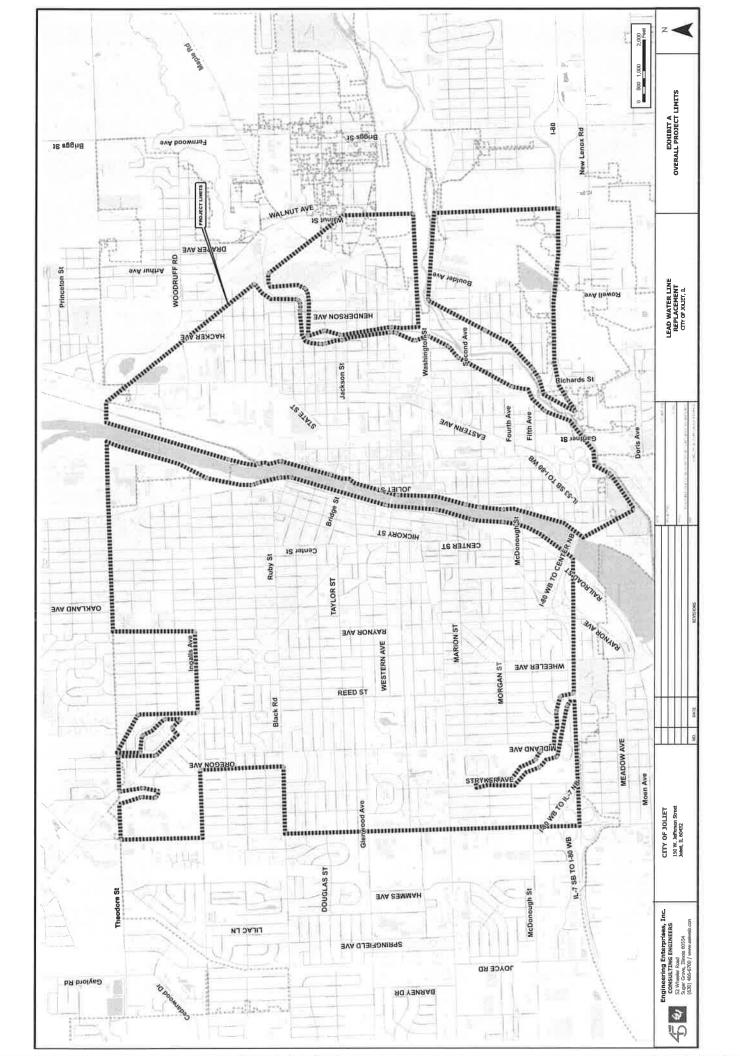
It is not anticipated that the proposed improvements will have an adverse effect on the air quality. It can be expected that there will be an insignificant amount of air quality

degradation during construction due to operation of construction equipment. However, the degradation of the air quality will be temporary and have minimal effect on the environment. Dust control measures and maintained construction equipment should reduce the short-term impacts.

### 6.10 IEPA Loan Applicant Environmental Checklist

The IEPA Loan Applicant Environmental Checklist, WPC 703-2652, has been completed and can be found in Appendix A.

Item 7: Reproducible 8.5 X 11 inch map(s) showing the project(s) location(s) relative to the community. Black and White Preferred



# Item 8: An estimate of the total project costs and a detailed estimate of construction item costs.

Cost estimates for annual projects over the course of the next 5 years are provided in Appendix B.

## Item 9: Estimate loan terms, including: IEPA Loan Amount, interest rate, repayment period in years, and the annual loan repayment.

It is the City's intent to seek IEPA loan funding on an annual basis in the amount equal to the principal loan forgiveness; resulting in no new debt obligations for the City. At the current time, loan forgiveness is \$1 million dollars. The City understands this may change annually.

The following is provided for discussion purposes only and to fulfill the Project Plan requirement:

At the anticipated interest rate of 2% and assuming a loan for \$5 million, amortized over 20 years, the total annual loan repayment is approximately \$303,528 for the loan. Currently, the City has approximately 46,437 residential accounts. Uniformly distributing the approximate loan repayment among these accounts would result in a cost increase of \$6.54 per year or \$0.55 per month to the average residential account's water bill. This represents a 2.14% increase in the average residential account's water bill.

It is important to note that the calculation above applies only to the average residential customer with \$25.41 average monthly residential bill and it cannot be strictly applied to all City customers. At this early stage of the project, a Water Rate Study has not been completed. A comprehensive rate analysis will be completed prior to the IEPA making a loan offer to the City to assess financing impacts on all City water customers. A copy of the current rate structure is provided as Appendix C.

Item 10: Financial arrangements for assuring adequate annual debt service and O, M, and R coverage, a description of the dedicated source of revenue necessary for loan repayment, and any other funding involved in the project.

The existing user charge and O, M, and R certification sheet can be found in Appendix D. There is no other funding involved in the project. There are no proposed water rate changes at this time. The City's water and sewer fund currently has a net cooperative income of \$1.7 million. Any loan related expenses after principal forgiveness would be paid from the water and sewer fund.

Item 11: Detailed description of the existing residential rate structure, water consumption, any proposed rate changes and an example of the existing proposed average monthly residential bill because of the project(s).

### 11.1 Existing Water Rates

Currently, incorporated residential owners with water service from the City receive a water bill that is made up of two charge components that are assessed to each customer. The components include a flat rate Monthly Charge of \$5.06 and a Water Rate Volume Charge of \$1.34 per 100 cubic feet (\$1.7913 per 1,000 gallons) for the first 200 cubic feet and then \$4.02 per 100 cubic feet (\$5.3740 per 1,000 gallons) for any usage over 200 cubic feet.

### 11.2 Average Water Consumption

The City has reviewed its customer database and has found that the "average residential customer" can be generally categorized as a household that uses 639.49 cubic feet of water per month. The volume of 639.49 cubic feet equates to 4783.72 gallons of water. Using the water rates for residential owner, the average residential owner's monthly water bill is computed as follows:

Total Current Average Monthly Water Bill \$25.41			
<ul><li>Water Volume Charge:</li><li>Water Volume Charge:</li></ul>	\$1.34/100 CF x 200 CF \$4.02/100 CF x 439.49 CF	= \$ 2.68 = \$17.67	
<ul><li>Monthly Charge:</li></ul>	\$5.06/month x 1 month	= \$ 5.06	

# Item 12: One copy of the completed Existing User Charge and O, M, and R Certification Sheet

The existing user charge and O, M, and R certification sheet can be found in Appendix D.

# Item 13: Discussion of any "green" project components that are part of the proposed project.

At this time there are no "green" project components anticipated.

### Item 14: Schedule for project implementation.

The following is a proposed implementation schedule for the completion of the Year 1 Lead Service Line Replacement Project. It is anticipated Years 2 through 5 will follow the same implementation schedule for the given year unless by-pass funding can be utilized.

<u>Task</u>	<u>Date</u>
Submit Project Plan to IEPA	August 2019
IEPA Project Plan Review	August 2019 – October 2019
Public Notice Hearing	November 2019
Project Plan Approval	December 2019
Design (Plans and Specifications)	January 2019 – March 2020
Advertise For Bids	April 2020
Receive Bids	May 2020
Obtain Loan Commitment (Intended Funding List)	July 2020
Award Contracts and Initiate Construction	July 2020
Complete Construction	November 2020

### Item 15: Copies of inter-governmental and/or service agreements.

There are no inter-governmental or service agreements between the City of Joliet and other entities.

### Item 16: IEPA construction permit status.

IEPA construction permits are not warranted for water service line replacement projects.

### Item 17: Name and address of the local newspaper(s).

The names and addresses of the local newspapers are:

- The Times Weekly 254 East Cass Street Joliet, IL 60432
- The Herald-News 2175 Oneida St. Joliet, IL 60405

### Appendix A

**IEPA Loan Applicant Environmental Checklist** 

### IEPA Loan Applicant Environmental Checklist

Loan Applica	nt: City of Joliet		L17#:	
			d Representative (not engineerin Items 3-6 are specific to conditi	
1) National Circle on	Historic Preservation Act, Sec e: Attached	tion 106 sign-of OR	f: Date requested	
Environm Areas Pre	nental Planning regarding comeservation Act and Illinois Inte	pliance with Illi ragency Wetlan	of Natural Resources Office of Renois Endangered Species Protection ds Protection Act.  Date DNR consultation requeste	on Act, Illinois Natural
			Ill. Adm. Code Parts 1075 and I on is rare. Check here if projec	
3) Yes IF YES:	floodway and/or w	etland.	r near a stream bank (includes stream will comply with the Rivers, Lal	•
IF YES: Circle on	Comments from the Army e: Attached OR Date		neers are required.	
IF YES:		rea to be conver	e agricultural land to other uses. ted along with a discussion of the l in planning.	necessity of utilizing
IF YES:	proposed service.	letailed discussi	more than a 30% reserve capacity on in the planning documents musted project.	•
6) Yes Chicago Met		(CMAP), Grea	esignated Water Quality Managemeter Egypt Regional Planning & De (SIPC).	-
IF YES to	<b>GERPDC or SIPC</b> : Comme ty Planning Area (FPA) modif	ents from the applications (if appl	•	
	•	rtment of Agric	ulture regarding the FPA change a	re required.
	act information for the various	_	encies which must be contacted, as for this checklist.	well as the sources for
Signed:	Loan Applicant's Authorize	ed Representativ	Date: 10-18-1	9





June 20, 2019

State Historic Preservation Office (Preservation Services) Illinois Department of Natural Resources One Natural Resources Way Springfield, IL 62702-1271

Re:

Lead Service Line Replacement Project

City of Joliet, Will County, IL

To Whom It May Concern

The City of Joliet intends to finance the above referenced project through the Illinois Environmental Protection Agency (IEPA) Public Water Supply Loan Program. In accordance with the loan program requirements, we are requesting a sign-off by the IDNR State Historic Preservation Office (SHPO) concerning possible effects on cultural resources located within the overall project limits shown on the attached exhibit.

The general scope of work will be the replacement of lead water service lines from the City's water main to the water meter inside the residences. The exact location and number of water services replaced per year over the course of the next five years following loan approval is currently unknown and will depend on available financing and the continuing efforts by the City to identify and catalog existing lead services. The work will be limited to underground water service improvements with no adverse impacts to structures or above grade conditions.

The City is requesting clearances from federal Section 106 of the National Historic Preservation Act and from the Illinois Historic Resources Preservation Act. If you have any questions or need additional information, please do not hesitate to contact me at <a href="mailto:impressor@eeiweb.com">impressor@eeiweb.com</a> or at 630-466-6723.

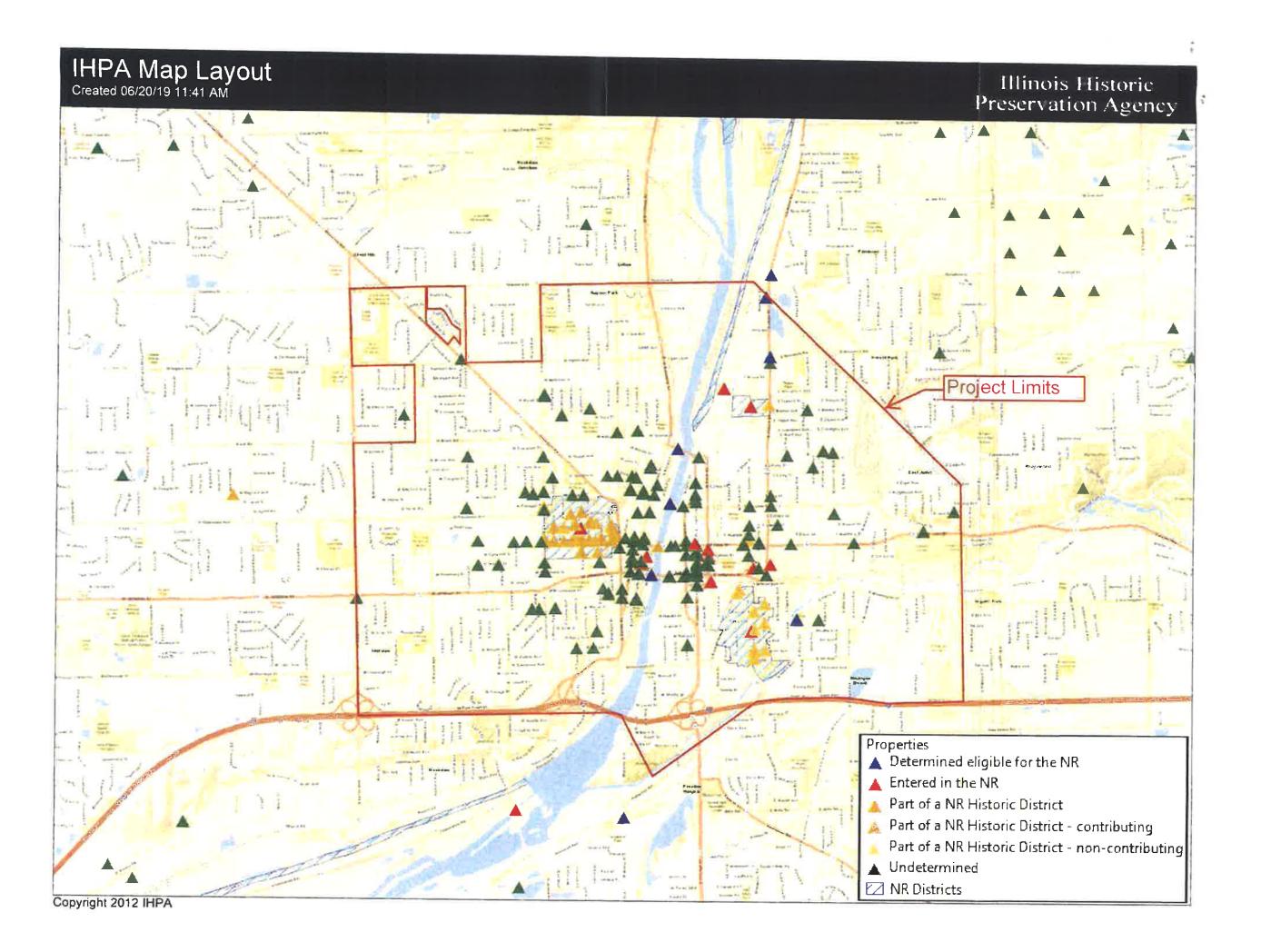
Respectfully submitted,

ENGINEERING ENTERPRISES, INC.

Julie A. Morrison, P.E.\Senior Project Manager

JAM Enclosures

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# Illinois Department of Natural Resources

JB Pritzker, Governor Colleen Callahan, Director

www.dnr.illinois.gov

Mailing address: State Historic Preservation Office, 1 Old State Capitol Plaza, Springfield, IL 62701

Will County
Joliet
Various locations throughout city
IEPA LOAN
Water main replacement/lead service lines

PLEASE REFER TO:

SHPO LOG #002062519

July 9, 2019

Julie Morrison Engineering Enterprises, Inc. 52 Wheeler Road Sugar Grove, IL 60554

Dear Ms. Morrison:

We have reviewed the documentation submitted for the referenced project(s) in accordance with 36 CFR Part 800.4. Based upon the information provided, no historic properties are affected. We, therefore, have no objection to the undertaking proceeding as planned.

Please retain this letter in your files as evidence of compliance with section 106 of the National Historic Preservation Act of 1966, as amended. This clearance remains in effect for two (2) years from date of issuance. It does not pertain to any discovery during construction, nor is it a clearance for purposes of the Illinois Human Skeletal Remains Protection Act (20 ILCS 3440).

If you are an applicant, please submit a copy of this letter to the state or federal agency from which you obtain any permit, license, grant, or other assistance. If further assistance is needed contact Jeff Kruchten, Chief Archaeologist at 217/785-1279 or Jeffery.kruchten@illinois.gov.

Sincerely,

Robert F. Appleman Deputy State Historic

Preservation Officer

Bant J. appl

ENGINEERING ENTERPRISES, INC

2019 JUL 1 5 2019

WECEINED

JB Pritzker, Governor

Colleen Callahan, Director

June 24, 2019

Luying Li Engineering Enterprises Inc. 52 Wheeler Road Sugar Grove, IL 60554

RE: City of Joliet Lead Service Line Replacement

Project Number(s): 1912192

County: Will

### Dear Applicant:

This letter is in reference to the project you recently submitted for consultation. The natural resource review provided by EcoCAT identified protected resources that may be in the vicinity of the proposed action. The Department has evaluated this information and concluded that adverse effects are unlikely. Therefore, consultation under 17 Ill. Adm. Code Part 1075 and 1090 is terminated.

Consultation for Part 1075 is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Consultation for Part 1090 (Interagency Wetland Policy Act) is valid for three years.

The natural resource review reflects the information existing in the Illinois Natural Heritage Database and the Illinois Wetlands Inventory at the time of the project submittal, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, you must comply with the applicable statutes and regulations. Also, note that termination does not imply IDNR's authorization or endorsement of the proposed action.

Please contact me if you have questions regarding this review.

Kyle Burkwald

Division of Ecosystems and Environment

217-785-5500





06/20/2019

IDNR Project Number: 1912192

Date:

Applicant: Engineering Enterprises Inc.

Contact: Luying Li Address: 52 Wheeler Road

Sugar Grove, IL 60554

Proiect: City of Joliet Lead Service Line Replacement

Address: City of Joliet, Joliet

Description: Replacement of various lead water service lines.

### **Natural Resource Review Results**

### Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)

The Illinois Natural Heritage Database shows the following protected resources may be in the vicinity of the project location:

Markgraf Quarry INAI Site

Theodore Street Marsh INAI Site

Theodore Marsh Land And Water Reserve

Banded Killifish (Fundulus diaphanus)

Common Moorhen (Gallinula chloropus)

Hine's Emerald Dragonfly (Somatochlora hineana)

Northern Long-Eared Myotis (Myotis septentrionalis)

Osprey (Pandion haliaetus)

### Wetland Review (Part 1090)

The Illinois Wetlands Inventory shows wetlands within 250 feet of the project location.

An IDNR staff member will evaluate this information and contact you to request additional information or to terminate consultation if adverse effects are unlikely.

#### Location

The applicant is responsible for the accuracy of the location submitted for the project.

County: Will

Township, Range, Section:

35N, 10E, 2

35N, 10E, 3

35N, 10E, 4

35N, 10E, 5

35N, 10E, 6

35N, 10E, 7

35N, 10E, 8

35N, 10E, 9

35N, 10E, 10

35N, 10E, 11



IDNR Project Number: 1912192

35N, 10E, 14

35N, 10E, 15 35N, 10E, 16

35N, 10E, 17

35N, 10E, 18

35N, 10E, 21

35N, 10E, 22

36N, 10E, 31

36N, 10E, 32

36N, 10E, 33

### **IL Department of Natural Resources** Contact

Kyle Burkwald 217-785-5500

Division of Ecosystems & Environment

### **Government Jurisdiction**

City of Joliet Luvina Li 52 Wheeler Rd

Sugar Grove, Illinois 60554

#### **Disclaimer**

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

#### **Terms of Use**

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

- 1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.
- 2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.
- 3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

#### Security

EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law.

Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

### **Privacy**

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.

### **Appendix B**

**Cost Estimates** 





### Engineering Enterprises, Inc.

52 Wheeler Road, Sugar Grove, IL 60554

JOB NO:	JO1902
DESIGNED:	JAM/LL
DATE:	JULY, 2019
PROJECT TITLE:	City of Joliet 'Lead Service Line Replacement

### Project Cost Estimate - Year 1

ITEM NO.	ITEM	UNIT	QUANTITY		UNIT PRICE		AMOUNT
1	TRENCH BACKFILL	CU YD	150	\$	35.00	\$	5,250,00
2	PROJECT MANAGEMENT	HRS	150	\$	100.00	\$	15,000.00
3	WATER SERVICE CONNECTION TO WATER MAIN - NEW	EACH	38	\$	2,500.00	\$	95,000.00
4	WATER SERVICE CONNECTION TO WATER MAIN - EXISTING	EACH	38	\$	2,500,00	\$	95,000.00
5	1" WATER SERVICE LINE TYPE K - OPEN CUT	LF	750	\$	45.00	\$	33,750.00
6	1" WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING	LF	4,500	\$	35.00	\$	157,500.00
7	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT/CRAWL SPACE	EACH	38	\$	2,500.00	\$	95,000.00
8	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB	EACH	38	\$	4,000.00	\$	152,000.00
9	WATER SERVICE LINE TYPE L - 3/4"	LF	30	\$	30.00	\$	900.00
10	WATER SERVICE LINE TYPE L - 1"	LF	300	\$	35.00	\$	10,500.00
11	UTILITY LOCATION - PRIVATE PROPERTY	EACH	75	\$	100.00	\$	7,500.00
12	WATER METER RELOCATION	EACH	15	\$	200.00	\$	3,000.00
13	REMOVE AND REPLACE DRAIN TILES	LF	75	\$	30.00	\$	2,250.00
14	REMOVE AND REPLACE SEWER SERVICE LINES	LF	75	\$	40.00	\$	3,000.00
15	HAND DIG EXCAVATION ALLOWANCE, 5 FT DEEP	EACH	3	\$	2,000.00	\$	6,000.00
16	HAND DIG EXCAVATION ALLOWANCE, 6 FT DEEP	EACH	3	\$	2,800.00	\$	8,400.00
17	REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL	CU YD	150	\$	70,00	\$	10,500,00
ESTIMATED CONSTRUCTION COST						\$	700,550.00
CONTINGENCY (10%)						\$	70,055.00
DESIGN ENGINEERING (10%) (INCLUDING PROJECT PLAN)						\$	94,495.00
CONSTRUCTION ENGINEERING (10%) (INCLUDING BIDDING)						\$	70,055.00
OTHER PROFESSIONAL SERVICES (SEPARATE LEGAL, LOAN ADMIN, ETC.)						\$	20,000.00
TOTAL ESTIMATE PROJECT COSTS:						\$	955,155.00

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### Engineering Enterprises, Inc.

52 Wheeler Road, Sugar Grove, IL 60554

JOB NO:	JO1902
DESIGNED:	JAM/LL
DATE:	JULY, 2019
PROJECT TITLE:	City of Joliet 'Lead Service Line Replacement

#### Project Cost Estimate - Year 2

NO.	ITEM	UNIT	QUANTITY		UNIT PRICE		AMOUNT
1	TRENCH BACKFILL	CU YD	150	\$	37.00	\$	5,550.00
2	PROJECT MANAGEMENT	HRS	150	\$	105.00	\$	15,750.00
3	WATER SERVICE CONNECTION TO WATER MAIN - NEW	EACH	38	\$	2,625.00	\$	99,750.00
4	WATER SERVICE CONNECTION TO WATER MAIN - EXISTING	EACH	38	\$	2,625.00	\$	99,750.00
5	1" WATER SERVICE LINE TYPE K - OPEN CUT	LF	750	\$	48.00	\$	36,000.00
6	1" WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING	LF	4,500	\$	37.00	\$	166,500.00
7	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT/CRAWL SPACE	EACH	38	\$	2,625.00	\$	99,750.00
8	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB	EACH	38	\$	4,200.00	\$	159,600.00
9	WATER SERVICE LINE TYPE L - 3/4"	LF	30	\$	32.00	\$	960,00
10	WATER SERVICE LINE TYPE L - 1"	LF	300	\$	37.00	\$	11,100.00
11	UTILITY LOCATION - PRIVATE PROPERTY	EACH	75	\$	105.00	\$	7,875.00
12	WATER METER RELOCATION	EACH	15	\$	210.00	\$	3,150.00
13	REMOVE AND REPLACE DRAIN TILES	LF	75	\$	32.00	\$	2,400.00
14	REMOVE AND REPLACE SEWER SERVICE LINES	LF	75	\$	42.00	\$	3,150.00
15	HAND DIG EXCAVATION ALLOWANCE, 5 FT DEEP	EACH	3	\$	2,100.00	\$	6,300.00
16	HAND DIG EXCAVATION ALLOWANCE, 6 FT DEEP	EACH	3	\$	2,940.00	\$	8,820.00
17	REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL	CU YD	150	\$	74.00	\$	11,100.00
		ESTIN	MATED CONS	STRU	JCTION COST	\$	737,505.00
CONTINGENCY (10%)							73,751,00
DESIGN ENGINEERING (10%)							73,750.50
CONSTRUCTION ENGINEERING (10%) (INCLUDING BIDDING) \$							73,750.50
OTHER PROFESSIONAL SERVICES (SEPARATE LEGAL, LOAN ADMIN, ETC.)						\$	21,000.00
		TOTAL	ESTIMATE I	PRO	JECT COSTS:	\$	979,757.00

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### Engineering Enterprises, Inc.

52 Wheeler Road, Sugar Grove, IL 60554

JOB NO:	JO1902
DESIGNED:	JAM/LL
DATE:	JULY, 2019
PROJECT TITLE:	City of Joliet 'Lead Service Line Replacement

## Project Cost Estimate - Year 3

ITEM NO.	ITEM	UNIT	QUANTITY		UNIT PRICE		AMOUNT
1	TRENCH BACKFILL	CUYD	140	\$	39.00	\$	5,460.00
2	PROJECT MANAGEMENT	HRS	140	\$	110.00	\$	15,400,00
3	WATER SERVICE CONNECTION TO WATER MAIN - NEW	EACH	35	\$	2,750.00	\$	96,250.00
4	WATER SERVICE CONNECTION TO WATER MAIN - EXISTING	EACH	35	\$	2,750.00	\$	96,250.00
5	1" WATER SERVICE LINE TYPE K - OPEN CUT	LF	700	\$	50.00	\$	35,000.00
6	1" WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING	LF	4,200	\$	39.00	\$	163,800.00
7	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT/CRAWL SPACE	EACH	35	\$	2,750.00	\$	96,250.00
8	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB	EACH	35	\$	4,400.00	\$	154,000.00
9	WATER SERVICE LINE TYPE L - 3/4"	LF	28	\$	33.00	\$	924.00
10	WATER SERVICE LINE TYPE L - 1"	LF	280	\$	39.00	\$	10,920.00
11	UTILITY LOCATION - PRIVATE PROPERTY	EACH	70	\$	110.00	\$	7,700.00
12	WATER METER RELOCATION	EACH	14	\$	220.00	\$	3,080.00
13	REMOVE AND REPLACE DRAIN TILES	LF	70	\$	33.00	\$	2,310.00
14	REMOVE AND REPLACE SEWER SERVICE LINES	LF	70	\$	44.00	\$	3,080.00
15	HAND DIG EXCAVATION ALLOWANCE, 5 FT DEEP	EACH	3	\$	2,200.00	\$	6,600.00
16	HAND DIG EXCAVATION ALLOWANCE, 6 FT DEEP	EACH	3	\$	3,080.00	\$	9,240.00
17	REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL	CU YD	140	\$	77.00	\$	10,780.00
		ESTIN	MATED CONS	STRU	JCTION COST	\$	717,044.00
CONTINGENCY (10%) \$							71,705.00
DESIGN ENGINEERING (10%) \$							71,704.40
CONSTRUCTION ENGINEERING (10%) (INCLUDING BIDDING) \$							71,704.40
	OTHER PROFESSIONAL SERVICES	(SEPARAT	E LEGAL, LC	AN.	ADMIN, ETC.)	\$	22,000.00
TOTAL ESTIMATE PROJECT COSTS: \$							954,157.80

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ITEM

NO.

2

5

6

7

11

12

13

14

15

ITEM

TRENCH BACKFILL

PROJECT MANAGEMENT

WATER SERVICE CONNECTION TO WATER MAIN - NEW

1" WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING

WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB

1" WATER SERVICE LINE TYPE K - OPEN CUT

WATER SERVICE LINE TYPE L - 3/4"

REMOVE AND REPLACE DRAIN TILES

UTILITY LOCATION - PRIVATE PROPERTY

REMOVE AND REPLACE SEWER SERVICE LINES

HAND DIG EXCAVATION ALLOWANCE, 5 FT DEEP

HAND DIG EXCAVATION ALLOWANCE, 6 FT DEEP REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL

WATER SERVICE LINE TYPE L - 1"

WATER METER RELOCATION



#### Engineering Enterprises, Inc.

52 Wheeler Road, Sugar Grove, IL 60554

JOB NO:	JO1902
DESIGNED:	JAM/LL
DATE:	JULY, 2019
PROJECT TITLE:	City of Joliet 'Lead Service Line Replacement

WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT/CRAWL SPACE

#### UNIT UNIT QUANTITY PRICE AMOUNT CU YD 41.00 140 HRS 140 \$ 115.00 \$ 100,625.00 **EACH** 35 \$ 2,875.00 \$ **EACH** 35 \$ 2,875.00 \$ 100,625.00 WATER SERVICE CONNECTION TO WATER MAIN - EXISTING

LF

LF

**EACH** 

EACH

LF

LF

EACH

**EACH** 

LF

LF

EACH

700

4,200

35

35

28

280

70

14

70

70

\$

\$

\$

\$

Project Cost Estimate - Year 4

3,220.00 **EACH** 3 9,660.00 CU YD 140 \$ 81.00 \$ 11,340.00 ESTIMATED CONSTRUCTION COST \$ 750,615.00 CONTINGENCY (10%) \$ 75,062.00

DESIGN ENGINEERING (10%) \$ 75,061.50 CONSTRUCTION ENGINEERING (10%) (INCLUDING BIDDING) \$ 75,061.50

52.00

41.00

2,875.00 \$

4,600.00 \$

115.00 \$

35.00 \$

41.00 \$

230.00 \$

35.00 \$

46.00 \$

2,300.00

5,740.00

16,100.00

36,400.00

172,200,00

100.625.00

161,000.00

11,480.00

8,050:00

3,220.00

2,450.00

3,220.00

6,900.00

980.00

OTHER PROFESSIONAL SERVICES (SEPARATE LEGAL, LOAN ADMIN, ETC.) \$ 23,000.00

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TOTAL ESTIMATE PROJECT COSTS: \$ 998,800.00





#### Engineering Enterprises, Inc.

52 Wheeler Road, Sugar Grove, IL 60554

JOB NO:	JO1902
DESIGNED:	JAM/LL
DATE:	JULY, 2019
PROJECT TITLE:	City of Joliet 'Lead Service Line Replacement

#### Project Cost Estimate - Year 5 ITEM UNIT UNIT QUANTITY PRICE AMOUNT NO. ITEM 5,460.00 CU YD 42.00 130 TRENCH BACKFILL 15,600.00 HRS 130 \$ 120.00 \$ PROJECT MANAGEMENT 99,000.00 **EACH** 33 \$ 3,000.00 \$ WATER SERVICE CONNECTION TO WATER MAIN - NEW **EACH** 33 3,000.00 \$ 99,000.00 WATER SERVICE CONNECTION TO WATER MAIN - EXISTING 5 LF 650 54.00 \$ 35,100,00 \$ 1" WATER SERVICE LINE TYPE K - OPEN CUT LF 3,900 42.00 163,800.00 6 1" WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING 3.000.00 \$ EACH 99,000.00 7 33 WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT/CRAWL SPACE **EACH** 33 4,800,00 \$ 158,400.00 WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB LF 26 36.00 \$ 936.00 WATER SERVICE LINE TYPE L - 3/4" LF 10,920.00 260 \$ 42.00 \$ 10 WATER SERVICE LINE TYPE L - 1" EACH 120.00 \$ 7,800.00 11 65 \$ UTILITY LOCATION - PRIVATE PROPERTY 240.00 \$ **EACH** 13 3,120.00 12 WATER METER RELOCATION LF 65 36.00 \$ 2,340.00 13 \$ REMOVE AND REPLACE DRAIN TILES LF 48.00 \$ 3,120.00 65 \$ 14 REMOVE AND REPLACE SEWER SERVICE LINES HAND DIG EXCAVATION ALLOWANCE, 5 FT DEEP EACH 2,400.00 7,200.00 3,360.00 \$ 16 EACH 3 10,080.00 HAND DIG EXCAVATION ALLOWANCE, 6 FT DEEP 10,920.00 17 REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL CU YD 130 \$ 84.00 \$ ESTIMATED CONSTRUCTION COST \$ 731,796.00 CONTINGENCY (10%) \$ 73,180.00 DESIGN ENGINEERING (10%) \$ 73,179.60 CONSTRUCTION ENGINEERING (10%) (INCLUDING BIDDING) \$ 73.179.60 OTHER PROFESSIONAL SERVICES (SEPARATE LEGAL, LOAN ADMIN, ETC.) \$ 24,000.00 **TOTAL ESTIMATE PROJECT COSTS: \$** 975,335.20

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# **Appendix C**

**Existing Residential Rate Structure** 

Sec. 31-80. - Water service, sewer service and combined water and sewer service.

(a) *Definitions*. Unless the context specifically indicates otherwise, the following terms as used in <u>chapter 31</u> shall have the meanings hereinafter designated:

Basic user charge shall mean the basic assessment levied on all users of the public sewer system.

Capital improvement charge shall mean a charge levied on users to improve, extend or reconstruct the sewage treatment works.

Customer or consumer shall mean the owner of the premises to which water service and/or sewer service is provided, or the owner and occupant of such premises jointly and severally. All new accounts shall be contracted for by such customer and all deposits shall be in the name of such consumer. Whenever an occupant of such premises seeks to open a new account he shall be presumed to be authorized by the owner of the premises to obligate him for the payment of charges for water and/or sewer service jointly and severally with such occupant as herein provided, and any deposit made by such occupant shall be presumed to be made by the owner and occupant jointly and severally.

Debt service charge shall be the amount to be paid each billing period for payment of interest, principal and coverage (loan, bond, etc.) outstanding.

Local capital cost charge shall mean charges for costs other than the operation, maintenance and replacement costs, i.e., debt service and capital improvement costs.

Replacement shall mean expenditures for obtaining and installing equipment, accessories or appurtenances which are necessary during the useful life of the treatment works to maintain the capacity and performance for which such works were designed and constructed. The term "operation and maintenance" includes replacement.

*Residential class* shall mean such purpose, use or occupancy of property as involves habitation and living therein of individual persons. This class shall include senior citizens who occupy but do not own their own dwelling units.

Senior or senior citizen is a senior-owned and senior-occupied residential account holder of the city who is sixty-five (65) years of age or older. To be eligible to receive services at a senior rate or to receive the senior discount, a person shall make application to the division of customer services and provide satisfactory evidence of age and city residency. A senior shall only be eligible for a senior rate and the senior discount at their primary residence. A senior may not receive a senior rate and senior discount at more than one (1) dwelling unit or in more than one (1) account. The senior rate and senior discount shall not be available to non-city residents or to dwelling units located outside the city.

Sewerage fund is the principal accounting designation for all revenues received in the operation of the sewerage system.

Single-family residential class shall mean those residential class customers that own and occupy an attached or detached single-family dwelling unit that is eligible for a property tax homestead exemption and which is connected to the public water supply by a service line that only provides service to that dwelling unit.

*Surcharge* shall mean the assessment in addition to the basic user charge and debt service charge which is levied on those persons whose wastes are greater in strength than the concentration values established in <u>section 31-276</u>.

*Useful life* shall mean the estimated period during which the collection system and/or treatment works will be operated.

*Volume charge* shall mean a charge levied on users of treatment works for the cost of operation, maintenance and replacement.

Wastewater service charge shall be the charge per month levied on all users of the wastewater facilities. The service charge shall be computed as outlined in <u>section 31-276</u> and shall consist of the total of the basic user charge and a surcharge if applicable. Basic charges shall be billed monthly with surcharges billed quarterly.

- (b) *Rates.* The following rate for the use of and service supplied by the combined waterworks and sewerage system of the city are based on a thirty (30) day billing cycle (prorated to the actual number of days in the billing cycle), and shall be as follows:
  - (1) Water service only-residential owner-occupied single-family non-senior. The monthly usage charge for water service only for customers in the residential owner-occupied single-family non-senior class shall include a monthly water customer charge as set forth in subsection (c), and the following usage rates:

			·	
Effective date	First 200 cubic feet/per	Over 200 cubic feet/per	First 200 cubic feet/per	Over 200 cubic feet/per
	100 cubic feet	100 cubic feet	100 cubic feet	100 cubic feet
	Resident	Resident	Non-	Non-
			Resident	Resident
To 10-31-2016	\$1.0895	\$3.2789	\$1.7640	\$4.2120
11-01-2016	1.17	3.51	1.89	4.51
11-01-2017	1.25	3.76	2.02	4.83
11-01-2018	1.34	4.02	2.16	5.17

(2) Unmeasured sewerage service only. The monthly usage charge for unmeasured sewerage service only customers in the unmeasured sewerage service only class shall include the usage of fourteen hundred cubic feet (1,400 cubic feet) of service per month, shall include a monthly sewer customer charge as set forth in subsection (d), and the following usage rates:

Effective date	Non-Seniors	Seniors	Non-Residents
To 10-31-2016	\$47.51	\$44.56	\$49.62
11-01-2016	50.84	47.68	53.09
11-01-2017	54.40	51.02	56.81
11-01-2018	58.21	54.59	60.79

(3) Measured sewerage service only. The monthly usage charge for measured sewerage service only customers in the measured sewerage service only class shall include a monthly sewer customer charge as set forth in subsection (d), and the following usage rates:

Effective date	Non-Seniors Per 100 cubic feet	Seniors Per 100 cubic feet	Non-Residents
To 10-31-2016	\$3.0958	\$2.9172	\$3.1750
11-01-2016	3.31	3.12	3.40
11-01-2017	3.54	3.34	3.64
11-01-2018	3.79	3.57	3.89

(4) Combined water and sewer service—Residential owner-occupied single-family non-senior. The monthly usage charge for combined water and sewer service for customers in the residential owner-occupied single-family non-senior class shall include a monthly water customer charge as set forth in subsection (c), a monthly sewer customer charge as set forth in subsection (d), and the following usage rates:

Effective date	First 200 cubic feet/per 100 cubic feet Resident	Over 200 cubic feet/per 100 cubic feet Resident	First 200 cubic feet/per 100 cubic feet Non- Resident	Over 200 cubic feet/per 100 cubic feet Non- Resident
To	\$1.0895(w) +	\$3.2789(w) +	\$1.7640(w) +	\$4.2120(w) +
10-31-2016	\$3.0958(s)	\$3.0958(s)	\$3.1750(s)	\$3.1750(s)
11-01-2016	1.17 (w) + 3.31 (s)	3.51 (w) + 3.31 (s)	1.89 (w) + 3.40 (s)	4.51 (w) + 3.40 (s)
11-01-2017	1.25 (w) + 3.54	3.76 (w) + 3.54	2.02 (w) + 3.64	4.83 (w) + 3.64
	(s)	(s)	(s)	(s)
11-01-2018	1.34 (w) + 3.79	4.02 (w) + 3.79	2.16 (w) + 3.89	5.17 (w) + 3.89
	(s)	(s)	(s)	(s)

For residential owners, the monthly sewer usage rates shall apply to the measured water usage.

(5) Water service only—Residential owner-occupied single-family senior. The monthly usage charge for water service only for customers in the residential owner-occupied single-family senior class shall include a monthly water customer charge as set forth in subsection (c), and the following usage rates:

Effective date	First 200 cubic feet/per 100 cubic feet Resident	Over 200 cubic feet/per 100 cubic feet Resident	First 200 cubic feet/per 100 cubic feet Non- Resident	Over 200 cubic feet/per 100 cubic feet Non- Resident
To 10-31-2016	\$0.7494	\$2.2483	\$1.7640	\$4.2120
11-01-2016	0.80	2.41	1.89	4.51
11-01-2017	0.86	2.58	2.02	4.83

(6) Combined water and sewer service—Residential owner-occupied single-family senior.

The monthly usage charge for combined water and sewer service for customers in the residential owner-occupied single-family senior class shall include a monthly water customer charge as set forth in subsection (c), a monthly sewer customer charge as set forth in subsection (d), and the following usage rates:

Effective date	First 200 cubic	Over 200 cubic	First 200 cubic	Over 200 cubic
	feet/per 100	feet/per 100	feet/per 100	feet/per 100
	cubic feet	cubic feet	cubic feet	cubic feet
	Resident	Resident	Non-Resident	Non-Resident
To	\$0.7494(w) +	\$2.2483(w) +	\$1.7640(w) +	\$4.2120(w) +
10-31-2016	\$2.9172(s)	\$2.9172(s)	\$3.1750(s)	\$3.1750(s)
11-01-2016	0.80 (w) + 3.12	2.41 (w) + 3.12	1.89 (w) + 3.40	4.51 (w) + 3.40
	(s)	(s)	(s)	(s)
11-01-2017	0.86 (w) + 3.34	2.58 (w) + 3.34	2.02 (w) + 3.64	4.83 (w) + 3.64
	(s)	(s)	(s)	(s)
11-01-2018	0.92 (w) + 3.57	2.76 (w) + 3.57	2.16 (w) + 3.89	5.17 (w) + 3.89
	(s)	(s)	(s)	(s)

For residential seniors, the monthly sewer usage rates shall apply to the measured water usage.

(7) Water service only—Commercial, industrial, governmental, residential tenant, multi-family owner, multi-family tenant. The monthly usage charge for water service only for customers in the commercial, industrial, governmental, residential tenant, multi-family owner or multi-family tenant class shall include a monthly water customer charge as set forth in subsection (c), and the following usage rates:

Effective date	First 200 cubic feet/per 100 cubic feet Resident	Over 200 cubic feet/per 100 cubic feet Resident	First 200 cubic feet/per 100 cubic feet Non- Resident	Over 200 cubic feet/per 100 cubic feet Non- Resident
To 10-31-2016	\$1.2012	\$3.6615	\$1.7640	\$4.2120
11-01-2016	1.29	3.92	1.89	4.51
11-01-2017	1.38	4.19	2.02	4.83
11-01-2018	1.48	4.48	2.16	5.17

(8) Combined water and sewer service—Commercial, industrial, governmental, residential tenant, multi-family owner, multi-family tenant. The monthly usage charge for combined water and sewer service for customers in the commercial, industrial, governmental, residential tenant, multi-family owner or multi-family tenant class shall include a monthly water customer charge as set forth in subsection (c), a monthly sewer customer charge as set forth in subsection (d), and the following usage rates:

Effective date	First 200 cubic	Over 200 cubic	First 200 cubic	Over 200 cubic
	feet/per 100	feet/per 100	feet/per 100	feet/per 100
	cubic feet	cubic feet	cubic feet	cubic feet
	Resident	Resident	Non-Resident	Non-Resident
To	\$1.2012(w) +	\$3.6615(w) +	\$1.7640(w) +	\$4.2120(w) +
10-31-2016	\$3.0958(s)	\$3.0958(s)	\$3.1750(s)	\$3.1750(s)
11-01-2016	1.29 (w) + 3.31 (s)	3.92 (w) + 3.31 (s)	1.89 (w) + 3.40 (s)	4.51 (w) + 3.40 (s)
11-01-2017	1.38 (w) + 3.54	4.19 (w) + 3.54	2.02 (w) + 3.64	4.83 (w) + 3.64
	(s)	(s)	(s)	(s)
11-01-2018	1.48 (w) + 3.79	4.48 (w) + 3.79	2.16 (w) + 3.89	5.17 (w) + 3.89
	(s)	(s)	(s)	(s)

For all customers, the monthly sewer usage rates shall apply to the measured water usage.

(9) Water service only—Multi-family senior. The monthly usage charge for water service only for customers in the multi-family senior class shall include a monthly water customer charge as set forth in subsection (c), and the following usage rates:

Effective date	First 200 cubic feet/per 100 cubic feet Resident	Over 200 cubic feet/per 100 cubic feet Resident	First 200 cubic feet/per 100 cubic feet Non- Resident	Over 200 cubic feet/per 100 cubic feet Non- Resident
To 10-31-2016	\$0.8768	\$2.6441	\$1.7640	\$4.2120
11-01-2016	0.94	2.83	1.89	4.51
11-01-2017	1.01	3.03	2.02	4.83
11-01-2018	1.08	3.24	2.16	5.17

(10) Combined water and sewer service—Multi-family senior. The monthly usage charge for combined water and sewer service for customers in the multi-family senior class shall include a monthly water customer charge as set forth in subsection (c), a monthly sewer customer charge as set forth in subsection (d), and the following usage rates:

Effective date	First 200 cubic	Over 200 cubic	First 200 cubic	Over 200 cubic
	feet/per 100	feet/per 100	feet/per 100	feet/per 100
	cubic feet	cubic feet	cubic feet	cubic feet
	Resident	Resident	Non-Resident	Non-Resident
То	\$0.8768(w) +	\$2.6441(w) +	\$1.7640(w) +	\$4.2120(w) +
10-31-2016	\$2.9172(s)	\$2.9172(s)	\$3.1750(s)	\$3.1750(s)
11-01-2016	0.94 (w) + 3.12 (s)	2.83 (w) + 3.12 (s)	1.89 (w) + 3.40 (s)	4.51 (w) + 3.40 (s)

11-01-2017	1.01 (w) + 3.34	3.03 (w) + 3.34	2.02 (w) + 3.64	4.83 (w) + 3.64
	(s)	(s)	(s)	(s)
11-01-2018	1.08 (w) + 3.57	3.24 (w) + 3.57	2.16 (w) + 3.89	5.17 (w) + 3.89
	(s)	(s)	(s)	(s)

For residential seniors, the monthly sewer usage rates shall apply to the measured water usage.

(11) Surcharge rates. The following rates shall apply to all users whose wastewater exceeds the normal domestic concentration of BOD (four hundred (400) mg/l) and SS (five hundred twenty (520) mg/l).

Effective date	Per lb. of BOD ₅	Per lb. of SS
To 10-31-2016	\$0.3826	\$0.2054
11-01-2016	0.41	0.22
11-01-2017	0.44	0.24
11-01-2018	0.47	0.26

(c) *Monthly water customer charge.* The rate per billing period for customers in all classes with water service shall include a fixed monthly water customer charge as follows:

### Monthly Water Customer Charge

Effective date	Non-seniors	Seniors
To 10-31-2016	\$4.13	\$3.69
11-01-2016	4.42	3.95
11-01-2017	4.73	4.23
11-01-2018	5.06	4.53

(d) *Monthly sewer customer charge*. The rate per billing period for customers in all classes with sewer service shall include both a fixed monthly sewer main charge and a fixed monthly sewer separation charge (sewer main charge and sewer separation charge are collectively referred to as the monthly sewer customer charge), as follows:

#### Monthly Sewer Main Charge

Effective date	Non-seniors	Seniors
To 10-31-2016	\$4.13	\$3.69
11-01-2016	4.42	3.95
11-01-2017	4.73	4.23
11-01-2018	5.06	4.53

#### Monthly Sewer Separation Charge—Multi-Family

Effective date	2 units	3 units	4 units	5+ units
To	\$5.79/each	\$5.5133/each	\$5.2375/each	\$4.9620/each
10-31-2016	\$11.58/month	\$16.54/month	\$20.95/month	\$24.81/month +
11-01-2016	6.20/each	5.90/each	5.60/each	5.31/each
	12.40/month	17.70/month	22.40/month	26.55/month +
11-01-2017	6.63/each	6.31/each	5.99/each	5.68/each
	13.26/month	18.93/month	23.96/month	28.40/month +
11-01-2018	7.09/each	6.75/each	6.41/each	6.08/each
	14.18/month	20.25/month	25.64/month	30.40/month +

# Monthly Sewer Separation Charge—All Non-Residential Customer Classes; Fee Based On Usage (cubic feet)

Effective	<u>0</u> —700	>701—1,400	>1,401—2,100	>2,101—2,800	>2,801—3,500	3,500+
date						

To 10- 31-2016	\$6.07	\$11.58	\$16.54	\$20.95	\$24.81	\$24.81 + \$1.10/700 CF (max. \$294.92)
11-01- 2016	\$6.49	\$12.40	\$17.70	\$22.40	\$26.55	\$26.55 + \$1.18/700 CF (max. \$315.56)
11-01- 2017	\$6.94	\$13.26	\$18.93	\$23.96	\$28.40	\$28.40 + \$1.26/700 CF (max. \$337.65)
11-01- 2018	\$7.43	\$14.18	\$20.25	\$25.64	\$30.40	\$30.40 + \$1.35/700 CF (max. \$361.29)

### Monthly Sewer Separation Charge—All Others/All Classes

Effective date	Charge
To 10-31-2016	\$5.97
11-01-2016	6.39
11-01-2017	6.84
11-01-2018	7.32

(Ord. No. 7444, § 2, 12-16-80; Ord. No. 7837, § 4, 6-21-83; Ord. No. 7932, § 1, 2-22-84; Ord. No. 8246, § 1, 4-1-86; Ord. No. 8532, § 1, 10-6-87; Ord. No. 8636, § 1, 4-19-88; Ord. No. 8655, § 1, 6-21-88; Ord. No. 9043, § 3, 12-19-89; Ord. No. 9486, § 1, 2-5-91; Ord. No. 9524, § 1, 4-16-91; Ord. No. 9865, § 1, 3-30-92; Ord. No. 11118, §§ 2, 3, 5-7-96; Ord. No. 11325, § 1, 1-6-97; Ord. No. 11899, §§ 1, 2, 5-5-98; Ord. No. 12498, § 1, 10-5-99; Ord. No. 13043, § 1, 1-17-01; Ord. No. 14580, § 1(Exh. A), 2-17-04; Ord. No. 15455, § 1(Exh. A), 2-21-06; Ord. No. 15789, §§ 1—4, 2-6-07; Ord. No. 16530, § 1(Exh. A), 9-15-09; Ord. No. 17527, § 2, 10-4-16; Ord. No. 17652, § 2, 9-5-17)

Sec. 31-81, - Reserved.

**Editor's note**— Ord. No. 17527, § 2, adopted October 4, 2016, repealed § 31-81, which pertained to a minimum rate charge. See the Code Comparative Table for the section's derivation.

Sec. 31-82. - Usage to be metered.

- (a) All water usage. All water supplied through the city system shall be measured through a water meter as provided in this Code, and the usage charges for combined water and sewer service or water service only shall be based on the meter readings.
- (b) Exception. Persons desiring to use city water for construction purposes where it is impractical to measure the consumption of water by meter shall apply to the city manager or his designee for a permit for that purpose and shall be required to pay for such water at the time of issuance of such permit at the following rate:
  - (1) Water for use during construction, nine dollars and ninety-five cents (\$9.95) per room or six dollars and ninety-five cents (\$6.95) per two hundred (200) square feet of floor space, whichever is greater. The flat rate charge for water supplied for construction under such permit shall terminate when occupancy of the premises begins or within six (6) months after the issuance of the permit, whichever occurs first. Water use under this provision shall only be taken at the intended water service connection for use at said construction site. Any water used after such period shall be metered and charged according to metered rates. In no case shall such permit for water for construction purposes be construed as permitting the use of such water for landscaping or yard preparation, and it shall be unlawful to use water under such arrangement for landscaping or yard preparation.
  - (2) All other persons desiring to use city water in any case where it is impractical to measure the consumption by meter shall apply to the city manager or his designee for a permit for that purpose and shall be required to pay for such water at the rate established in section 31-80.

(Ord. No. 7444, § 4, 12-16-80; Ord. No. 8246, § 3, 4-1-86; Ord. No. 8532, § 3, 10-6-87; Ord. No. 9043, § 5, 12-19-89; Ord. No. 11118, § 4, 5-7-96; Ord. No. 17432, § 2, 10-6-15)

Water works system users outside the corporate limits of the city shall be required to pay the rates pursuant to sections 31-80 through 31-82 plus a rate for those water works system costs which have previously been incurred and which may be incurred in the future by the citizens of the city through taxes or assessments levied by the city. Sewerage system users outside the corporate limits of the city shall be required to pay the rates pursuant to sections 31-80 though 31-82 plus a rate for those sewerage system costs which have previously been incurred and which may be incurred in the future by the citizens of the city through taxes or assessments levied by the city.

> (a) Additional rate for water usage. An additional monthly rate for water service to users outside the city (R w) shall be calculated by operation of the following formula:

$$R_{w} = \underbrace{(C_{gow} + I_{gow} + P_{wsa} + C_{rw}) \times .0132}_{W}$$

Where:

R <sub>w</sub>	is the additional rate for water service in dollars per hundred cubic feet per month.
C gow	is the cost of water improvements constructed with general obligation bonds in dollars.
gow	is the cost of the interest on the general obligation bonds in dollars.
P <sub>wsa</sub>	is the cost of the public benefit portion of the special assessments for the construction of water improvements in dollars.
C <sub>rw</sub>	is the cost of principal and interest for revenue bonds for water construction that have been completely paid off by users in dollars.
.0132	is the capital recovery factor to allow payment at ten (10) per cent interest over a ten-year period.
W	is the estimated monthly water pumpage in hundred cubic feet.

(b) Additional rate for sewerage usage. An additional monthly rate for sewerage service to users outside the City (R;sub§ ..... sub;O) shall be calculated by operation of the following formula:

$$R_{s} = \underbrace{(C_{gos} + I_{gos} + P_{ssa}) \times .0132}_{S}$$

#### Where:

R;sub§\sub;	is the additional rate for wastewater collection and treatment in dollars per hundred cubic feet.
C gos	is the cost of wastewater improvements constructed with General Obligation Bonds in dollars.
gos	is the cost of the interest on the General Obligation Bonds in dollars.
P ssa	is the cost of the Public Benefit portion of special assessments for the construction of wastewater facilities in dollars.
S	is the estimated monthly quantity of wastewater treated in hundred cubic feet.
.0132	is the Capital Recovery factor to allow payment at ten (10) per cent interest over a ten-year period.

(c) Annual calculation. The additional rates for water and sewerage system users outside the city shall be calculated annually in October by the director of utilities. Any change in the rate as a result of the annual calculation shall become effective on January 1 of the year following the calculation.

(Ord. No. 7444, § 5, 12-16-80)

Sec. 31-84. - Annual financial summary.

The city manager shall at least annually prior to the adoption of the annual city budget submit to the city council a financial summary of the water and sewer operations. Said summary shall at least include anticipated expenses, revenue requirements, adjustments to rates and charges, capital expenses, operating and maintenance expenses and other pertinent items.

(Ord. No. 7932, § 3, 2-22-84)

Sec. 31-85. - Senior discount.

A monthly senior discount of five dollars and thirty-six cents (\$5.36) shall be provided for senior-owned and senior-occupied residential account holders. Senior occupants of multifamily dwelling units shall be eligible for the senior discount if the senior holds an individual account or if the entire multifamily building or complex has a single account and at least seventy-five (75) percent of the dwelling units are occupied by seniors. The city manager may promulgate administrative rules and regulations to implement this subsection.

(Ord. No. 10508, § 1, 8-2-94; Ord. No. 10621, § 1, 12-6-94; Ord. No. 11118, § 5, 5-7-96; Ord. No. 16530, § 2 (Exh. A.), 9-15-09; Ord. No. 17527, § 2, 10-4-16)

Sec. 31-86. - Final bill.

Any person or party vacating any premises receiving city water shall request a final reading of the water meter by the city before vacating said premises. All requests to the city for a final reading of the water meter shall be made not less than five (5) days prior to the date of the anticipated property transfer or vacation. Upon receiving such a request, the city shall take a final reading of the water meter and prepare a bill to be submitted to the customer for payment. In accordance with <a href="mailto:section 28-261">section 28-261</a> of this Code, the city shall not issue any real estate transfer tax stamps for the subject property until said bill is paid. In the event a final reading of the water meter is not possible prior to the transfer of property for which real estate transfer tax stamps are required, the customer shall pay a reasonable estimate of the amount due as determined by the city. In the event the final reading shows the customer still owes the city money, said customer shall promptly pay the city any outstanding sums. In the event the final reading shows the customer has paid in excess of the amount due, the city shall refund said excess to the customer.

(Ord. No. 17432, § 2, 10-6-15; Ord. No. 17527, § 2, 10-4-16)

Sec. 31-87. - Appeals...

- (a) Any person desiring to challenge a bill, fee or expense issued under the provisions of this chapter shall have the right to appeal the bill, fee or expense within fourteen (14) days after the receipt of the invoice to the finance director. The appeal must be in writing and shall contain a specific request for a hearing. Where a hearing is not requested, the appealing party shall submit all supporting documentation with the written appeal. The finance director shall have the authority to settle the claim. The failure to file a timely written appeal shall be deemed to approve the amount(s) owed and/or services performed.
- (b) Any person aggrieved by the decision of the finance director pursuant to this section, upon a timely filed written request, may appeal the decision to an administrative hearing. The appeal shall be taken by filing with the administrative adjudication coordinator, within fourteen (14) days after the decision, a written statement setting forth fully the grounds for appeal. The administrative hearing shall be conducted pursuant to section 3-13, Administrative hearings.

(Ord. No. 17786, § 17, 5-15-18)

Secs. 31-88, 31-89. - Reserved.

# Appendix D

Existing User Charge And O, M, And R Certification Sheet



# Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

## Existing User Charge and O, M, and R Certification Sheet

45,131	Number of current residen	itial customers	served by	the system.			
639.49	Actual average residential water use per customer per month (based on historical billing data)						
\$19.50	Current average monthly residential bill						
Provide details	that apply to your specific u	ser rate char	ges:				
	Water use charges:		er	gallons			
		\$4.02 p	er	\$1.34 per 100 cubic feet, for first 200 cubic feet 100 cubic feet, for over 200 cubic feet.			
Flat Fee	or Monthly User Charge:	\$5.06					
	Debt Service Charge:						
Сар	ital Improvement Charge:						
	Wholesale Charge:						
Meter Service Fe	ee (average-sized meter):						
	Other Charge:		Explain:				
	Other Charge:		Explain:				
<ul><li>Tota plus</li><li>Tota</li></ul>	Operating Income = Total Re I Revenue = Revenue from u any other dedicated water/s I Cost of Providing Service : dedicated water/sewer fund	iser charges, sewer fund re = All Operatio	commerci: venue				
3. Will a rate incre	ease or other revenue general	ting action be	necessary t	o pay for this project? (select one)			
	⊘ No						
4. If a rate increase monthly reside	se (or other cost increase) is r ntial water bill as an attachme	necessary, ple nt.	ase provide	the proposed user rate charges and proposed average			
Any person who EPA commits a	o knowingly makes a false, f Class 4 felony. A second of	ictitious, or fi r subsequent	raudulent n offense aft	naterial statement, orally or in writing, to the Illinois er conviction is a Class 3 felony. (415 ILCS 5/44(h))			
_	Robert O'Dek  Authorized Representation	ve (Printed)		Mayor			
6	hlet O'De	lis		08/27/19			
	Signature			Date			