

City of St. Joseph Drinking Water Revolving Fund Project Plan

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1.0 INTRODUCTION

1.1 INTRODUCTION

The City of St. Joseph (City) has retained Abonmarche Consultants, Inc. (Abonmarche) to complete this Drinking Water State Revolving Fund (DWSRF) Project Plan for Lead Water Service Replacements, Water Distribution System Improvements, and Saint Joseph Water Treatment Plant (SJWTP) upgrades.

The purpose of this Project Plan is to meet the project planning requirements of the Environment, Great Lakes & Energy (EGLE) Drinking Water State Revolving Fund, to include Lead Water Service Replacements as part of the project scope, and to include updates to the previously approved WTP and distribution system improvements. The addition of scope for the replacement of Lead Service Replacements has been introduced as a requirement resulting from the new Lead Copper Rule (LCR) that has been recently adopted by the State of Michigan.

The City's infrastructure has been the subject of multiple engineering studies focused on Drinking Water as well as Storm Water and Wastewater Systems. Those that will be referenced in the plan include:

- Asset Management Plan (October 2017)
- Water System Reliability Study (January 2016)
- Strategic Capital Improvement Plan (May 2017)

1.2 ASSET MANAGEMENT PLAN (AMP)

The City's Asset Management Plan (AMP) for its Wastewater and Storm Water systems was completed using the funding made available through the SAW Grant program (Grant No. 1276-01). Please note that while the SAW Grant covered activities related to the preparation of this asset management plan for the City's wastewater and storm water systems, the City of St. Joseph invested its own resources to expand the AMP to include the City's water distribution system and roadway network so that all four major asset classes within the public right-of-way are covered under the initial version of this Asset Management Plan. This allows the city to be efficient in planning and executing infrastructure improvements. This integrated asset management approach will improve the level of service for users of all utility networks and presents long-term cost savings.



1.3 WATER SYSTEM RELIABILITY STUDY (WSRS)

St. Joseph's Water Reliability Study (WRS) evaluated the water system with an emphasis on water demand and fire flow. The system was evaluated using the number of service connections and Residential Equivalent Units (REUs). The City was determined to have 4,266 service connections and 5,053 total REUs. Of the 4,266 services, about 3,850 are residential service connections. An inventory of water mains based on age, diameter, and material was taken to determine the condition of the system and are summarized in Tables 1-3.

Table 1: Pipe Ages in the System

Approximate Year of Installation	Pipe Length (feet)	Percent of Pipe by Length
1890 - 1919	44,998	14.47%
1920 - 1949	96,635	31.07%
1950 - 1979	88,556	28.47%
1980-1999	13,392	4.31%
2000 - 2015	67,418	21.68%
Total Pipe Length	310,999	

Table 2 - Pipe Diameters in the System

Pipe Diameter, inches	Pipe Length (feet)	Percent of Pipe by Length
4.0	28,335	9.11%
6.0	98,632	31.71%
8.0	69,187	22.25%
10.0	38,661	12.43%
12.0	42,420	13.64%
14.0	148	0.05%
16.0	11,880	3.82%
20.0	10,682	3.43%
24.0	10,319	3.32%
30.0	735	0.24%
Total Pipe Length	310,999	

Table 3 - Pipe Materials in the System

Pipe Material	Pipe Length (feet)	Percent of Pipe by Length
Cast Iron	230,189	74.02%
Ductile Iron	78,405	25.21%
HDPE	2,405	0.77%
Total Pipe Length	310,999	

The water plant has adequate capacity to meet the average daily flow demand. The City's current average daily demand requires 26.3% of the water plant's firm capacity. However, several water distribution system improvements are recommended to replace mains which are

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undersized or beyond the end of their useful life. 45% of the water distribution system was installed prior to 1950. The soils in the majority of the City are typically clays and silts which often result in a more corrosive environment, shortening a typical water main's useful life. Many mains have a history of main breaks and capacity issues, partly due to the corrosive environment in which they operate. A number of older mains have sustained excessive corrosion, compromising their structural integrity, and causing water to leak from the system. Replacement of these older mains will help reduce water loss throughout the system, which is approximately 10% higher than the EGLE recommended unaccounted water percentage. System improvements will also improve reliability of the system by replacing mains which are structurally compromised due to excessive corrosion.

1.4 STRATEGIC CAPITAL IMPROVEMENT PLAN (SCIP)

This Strategic Capital Improvement Plan (SCIP) is intended to provide a roadmap for water system improvements needed in the next 10 and 20 years. If the SJWTP were replaced today with a new water plant, the capital cost could be approximately \$50 million. Completing the recommended projects as outlined in the SCIP over a 20 year period at an approximate cost of \$25 million provides good value to water customers.

Water distribution system improvement projects were determined through the condition assessment and process evaluation tasks. Through this process, 44 projects totaling nearly \$100 million were identified and prioritized by benefit score so that projects with the highest benefit score received the greatest priority. Asset management principles of reducing risk to provide excellent customer service were used to develop and prioritize the recommended improvement projects. An implementation plan was developed for the orderly implementation of projects through the 20 year planning period.

1.5 PROJECT OVERVIEW

This DWSRF Project Plan is being submitted to fund improvements to the SJWTP and water distribution system as referenced in the 2017 DWRF Project Plan. The improvements to the SJWTP will benefit all users in the Southwest Michigan Regional Sanitary Sewer and Water Authority which is composed of the City of St. Joseph, St. Joseph Charter Township, Lincoln Charter Township, and Royalton Township. The Water Authority services 33,000 users. The distribution system serves the City's population of 8,365 along with many businesses and visitors to the City.

This loan will also finance the full replacement of lead or galvanized water service lines with new copper services at approximately 750 properties in the City of Joseph over the next five years. The total 5-year project cost estimate for lead service line replacements is \$5,230,200.

2.0 PROJECT SERVICE AREA AND DESCRIPTION

The project service areas for the WTP improvements and distribution system improvements were recently approved in the 2017 DWRF project plan and have not changed on this plan update.

The Lead Water Service Replacements encompass the entire City of St. Joseph. (See Figure 1)



2.1 LAND USE IN STUDY AREA

The City land area is 2,688 acres, or 4.2 square miles. The City is located at the mouth of the St. Joseph River and is surrounded on two sides (north and east) by the St. Joseph River and by Lake Michigan on the west side. The Authority communities lie generally to the south and east of the City.

Current land use in St. Joseph includes residential, commercial, industrial, institutional, recreational and vacant land. The St. Joseph Comprehensive Master Plan (2016) provides a summary of current development in the City. The development was assessed by a parcel-to-parcel study of all lands in the city limits.

The master plan states that its future land use plan is intended to guide land use, policy decisions, and zoning ordinances within the City over the next 20 years. Generally, the zoning for the City of St. Joseph is industrial on the southern perimeter areas, residential in the northern and central areas, and office and business area transitioned in between. A copy of the City Zoning Map from the 2016 Zoning Ordinance is included in Appendix B.

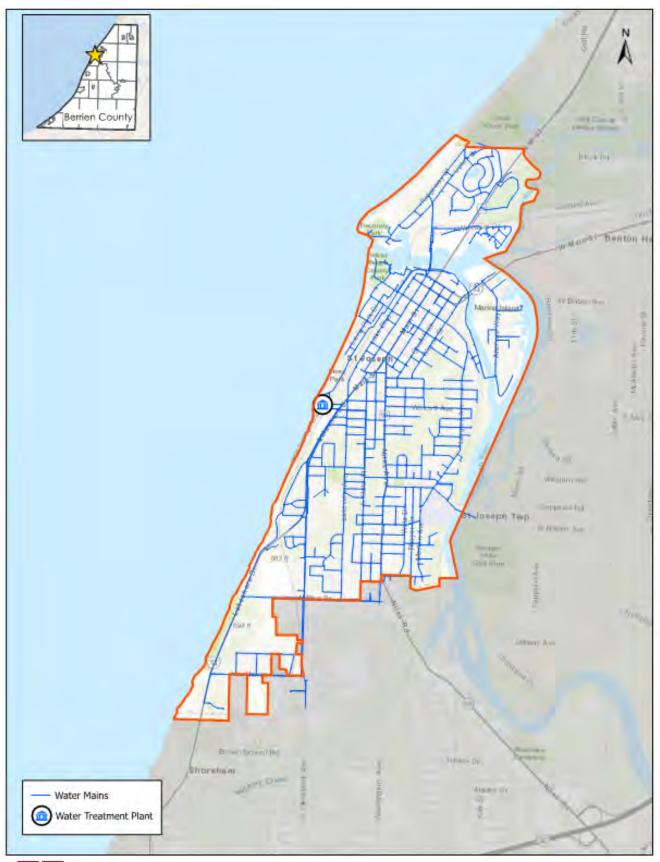
The majority of the City's zoning composition is residential. Three types of residential zoning are present in the City: Single-Family Residence, Two-Family Residence, and Multiple-Family Residence. The single family housing mainly lies south of the river. The multiple family housing is dispersed throughout the City.

There are three main commercial zones in the City. The Downtown District is located just south of the St. Joseph River and is generally within the area bounded by Port Street, Lake Boulevard, Market Street, and southwest of Main Street. There is a commercial district adjacent, but distinct from, the Downtown District. The third commercial district lies in a corridor along Niles Avenue and Hilltop Road.

The industrial zones lie mainly to the south of the City. There is also a significant amount of commercial traffic in the harbor. Institutional zones consist of government offices, schools, churches, emergency services, and others. The parks throughout the City are zoned as recreational.



Figure 1. Study Area Overview Map



2.2 LEAD SERVICE LINE REPLACEMENT

The City of Saint Joseph has a reported 3,850 residential water services. Of the 3,850 water services, it is estimated that 70% (2,695) of them contain lead in some form and will need to be replaced. In order to remain in compliance with the Safe Drinking Water Act, the City plans on replacing 150 lead service lines per year for the next 20 years. The water services to be replaced have been evaluated and categorized by priority based on the following criteria:

- Priority 1: LSLR's as part of upcoming reconstruction projects for 2021 and 2022
- Priority 2: Water services that leak or need to be replaced as part of water main breaks.
- **Priority 3:** Lead services that test high for lead.
- **Priority 4:** Future projects listed in the Asset Management Plan slated for reconstruction
- Priority 5: Galvanized services previously connected to lead.

Priority 1 water services located on Langley Avenue, Upton Drive, and Donna Drive are expected to be completed by 2022. Beginning in 2022 lead water services will be replaced on near term CIP projects on Willa Drive, Lester Avenue, Botham Avenue, and then on other future CIP projects as appropriate. Beginning in 2021 the City also plans to address water services that leak and water services that test high for lead, replacing 25 of each per year. Beginning in 2023 services that are part of future CIP reconstruction projects will be replaced in locations to be determined, as priority 4. Finally, galvanized water services that were previously connected to lead will be selected as priority 5 projects, but will not begin until 2023 on Botham Avenue.

Existing lead water service lines will be removed and replaced with copper service lines from the water main in the street to the meter at the home residence (or business building). At each location, construction will entail an open cut at the water main located in the street right-of-way (ROW) and at the curb box near the ROW line, with each open cut measuring approximately 5 feet deep by 3 feet wide by 10 feet long. As part of the work, the curb stop and box will be replaced.

For work on the privately-owned property, the existing service from the ROW line to the meter at the house (or business) will be pulled out using trenchless technology, in which a new copper service line will be pulled along behind the old service line from inside the structure, out to the ROW line. This trenchless method will not disturb the ground and will not disrupt lawns, unless local soil conditions or other site features cause problems, at which point a small trench would be dug to lay the new copper line. In all scenarios, the lead line will be removed after the copper line is in service.

In Table 4 below, the total number of each anticipated type of lead service replacement in each priority category is summarized.

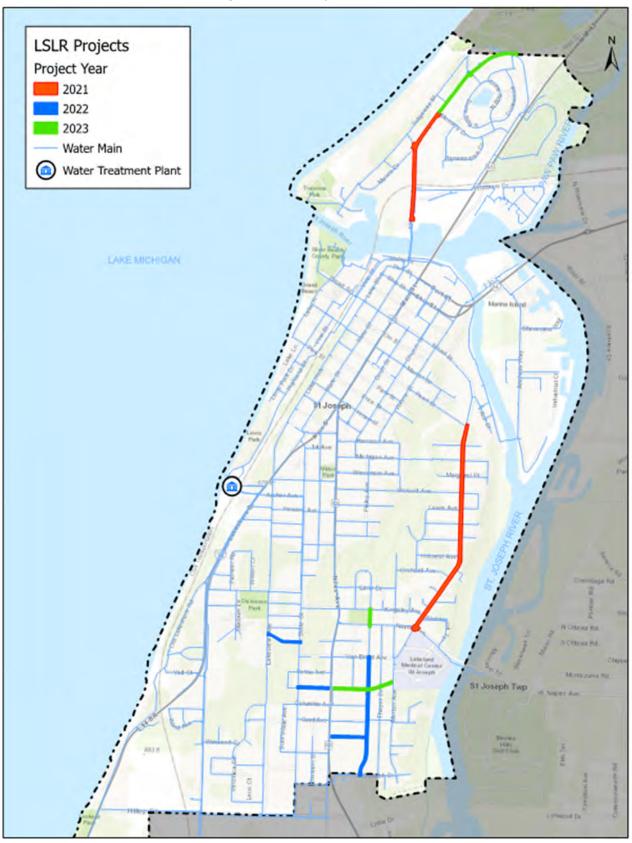


Table 4: Proposed LSLR Projects

Year	Water Services For Reconstruction Projects	Leaking/Broken Water Services	Lead Services That Test High For Lead	Water Services For CIP Projects	Galvanized Water Services Previously Connected To Lead	Total Service Replacements	Total Construction Cost	Engineering Cost	Total Project Cost
2021	108	25	25			158	\$948,000	\$142,200	\$1,090,200
2022	17	25	25	83		150	\$900,000	\$135,000	\$1,035,000
2023		25	25	83	17	150	\$900,000	\$135,000	\$1,035,000
2024		25	25	100		150	\$900,000	\$135,000	\$1,035,000
2025		25	25	100		150	\$900,000	\$135,000	\$1,035,000
					Total FY 21-25	758	\$4,548,000	\$682,200	\$5,230,200



Figure 2. LSLR Project Locations





2.3 WATER DISTRIBUTION SYSTEM IMPROVEMENTS

A number of distribution system improvements were developed for the next 20 years in response to concerns raised in Section 1.3. The proposed improvements are listed in Table 5. Most of the projects will be completed in conjunction with roadway, sanitary sewer, and storm sewer improvements. The distribution system improvements were developed as part of the City's latest water system reliability study as part of an overall asset management plan for the City's utilities. The first nine projects listed on Table 5 are intended to be completed in the next five years. (See Figure 3 and Appendix E for project locations)

Projects for water distribution improvements were broken down into 5 and 20-year plans. The 5-year plan includes 9 projects totaling \$14,841,992 in estimated costs. The 20-year plan includes 44 projects totaling \$92,947,996. Proposed work in this DWRF Project Plan has a secondary benefit of improving fire flow capacities.

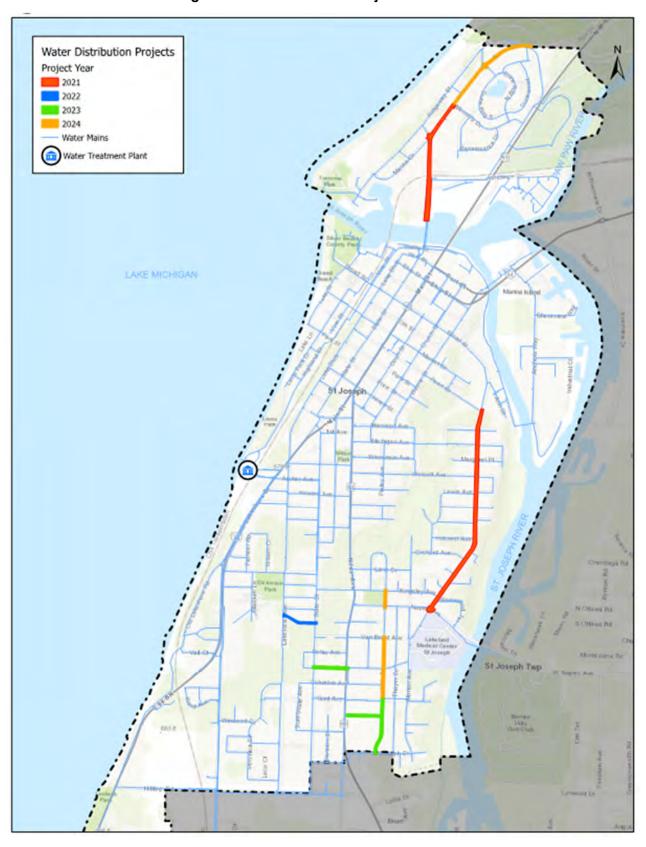


Table 5: Cost Summary- Proposed Water Distribution System Improvement Projects

Dura to sat					1 4 l-			Ct	C't
Project No.	Year	Duois et Nome	Fuom	To	Length (feet)	Estimated Cost	Motor	Storm Sewer	Sanitary Sewer
		Project Name	From Napier Ave	To Pearl St	4600		Water	X	
2	2021	Langley Avenue Reconstruction Upton Drive Reconstruction	St. Joseph River	Momany Dr	2650	 	X	X	X
3			· ·	S. State St			X	X	.
4	2022	Donna Drive Project Lester Avenue Reconstruction	Lakeview Ave Niles Ave	Willa Dr	710 790		X	X	X
5	2023	Willa Drive Reconstruction		Highland Ave	1109	\$1,107,217	X	X	X
6	2023	Botham Avenue Water Main Replacement	St. Joseph Dr S. State St	Niles Ave	686	\$1,107,217	X	X	X
7	2023	Willa Drive Reconstruction- 2	Highland Ave	Van Brunt Ave	686		X	X	X
8	2024	Willa Drive Water Main Installation- 3	Napier Ave	Kingsley Ave	333	 	X	X	X
9	2024	Upton Drive Reconstruct-2	Momany Dr	N. City Limits	2015		X	X	X
9	2024		IVIOITIATIY DI	N. City Lillits	2013		^	^	^
40	2026	Total	Idia and an Arra	Van Davint Avia	050	\$14,841,992			
10	2026	Morton Avenue Reconstruction	Kingsley Ave	Van Brunt Ave	950	' '	X	X	X
11	2027	Ship Street Reconstruction	Main St	Wayne St	1120		X	Х	X
12	2027	Main Street Reconstruction	Niles Ave	Port St	3800	\$6,941,987	X		X
13	2027	Port Street Reconstruction	Main St	Wayne St	1120		X	X	X
14	2028	Wolcott Avenue Reconstruction	Pixley Ave	Langley Ave	2006		X	X	X
15	2028	State Street Reconstruction	Sutherland Ave	Elm St	2650		X	X	X
16	2029	Napier Avenue Reconstruction	Niles Ave	Langley Ave	1650		X	X	X
17	2029	Division Street Reconstruction	St. Joseph Dr	Gard Ave	1320	. , ,	X	X	X
18	2029	Kingsley Avenue Reconstruction-2	Morton Ave	Langley Ave	634		X	X	X
19		Riverwood Terrance Reconstruction	Langley Ave	Riverwood Ter N/S	528	. ,	X	X	X
20	2029	Sunnydale Drive Reconstruction	S. State St	S. State St	1584		X	X	X
21	2030	Forres Avenue Reconstruction	Main St	WinchesterAve	1003		X	X	X
22	2030	S. State Street Reconstruction	Wallace Ave	WinchesterAve	2340		X	X	X
23	2030	Veronica Drive & Veronica Court Reconstruction		Lakeview Ave	3907	\$3,674,028	X	X	X
24	2030	Wayne Street Project	Broad St	Port St	1050	. ,	X	X	X
25	2031	Columbia Avenue Reconstruction	Niles Ave	Willa Dr	785		X	X	X
26	2031	Hillcrest Avenue Reconstruction	Sunset Dr	Langley Ave	898		X	X	X
27	2031	Hawthorne Road Reconstruction	Lakeshore Dr	Cleveland Ave	3274	 	X	X	X
28	2031	Wisconsin Avenue Project	Niles Ave	Morton Ave	1325		X	X	X
29	2031	Winwood Avenue Project	Cleveland Ave	Veronica Dr	790 325		X	X	Х
30	2031	Veronica Court Project	Veronica Dr	Leco Ct		\$199,337	X		
31 32	2032	St. Joseph Drive Reconstruction	West of Willa Dr	Morton Ave Orchard Ave	1109 1373		X	X	X
		Sunset Drive Reconstruction	Lewis Ave			, , , , , ,		^	
33 34	2032	Niles Avenue Project Petrie Avenue Project	Main St S. State St	South City Limits	7800 700	\$12,057,136 \$636,317	X	Х	X
		,		Niles Ave			X		
35 36	2032	Thayer Drive Project	St. Joseph Dr Highland Ave	Napier Ave	3100 850		X	X	X
		Highland Court Project Napier Avenue Reconstruction		Interceptor		. ,		X	
37 38	2033	Lane Drive Water Reconstruction	Langley Ave	River Crossing Dead End	1320 264		X	X	X
			Langley Ave			\$239,983 \$719,948	X		
39 40	2034	Pioneer Street Water Reconstruction Ridgeway Reconstruction	Wallace Ave	North St	792 E961		X	X	X
40			N. Pier Rd	N. Upton Dr	5861	\$2,939,473	X	X	X
41		Lake Street Reconstruction	Park St	Market St	792	\$446,864	X	X	X
42		Market Street Reconstruction	Church St	Olive St	898	 	X	X	X
43	2036	Whitllesey Avenue Reconstruction	Lakeview Ave	S. State St	12400	. ,	X	Х	X
44	2036	Lakeshore Drive Project	Winchester Ave	South City Limits	12400		Х		Х
		Total Estimated Costs				\$92,947,996			



Figure 3: Water Distribution Project Locations





2.4 WATER PLANT IMPROVEMENTS

Phase 2 and carryover projects from Phase 1 of the Water Plant SCIP will begin in 2022 with construction expected to be completed over the following two to three years. These projects include improvements to clarifiers #2 and #3, HVAC upgrades, architectural improvements, lab improvements, and south low lift pump station upgrades. Please refer to the 2017 DWRF Project Plan for further detail on the proposed water plant improvements. All Water Plant improvements included in this plan will be confined within the building limits. No site work is expected that will cause any impacts to shoreline, dewatering, or wetlands.

The following sections include more detailed description of the performance and reliability and issues at the SJWTP. A summarized cost of the proposed Water Plant Improvements are identified in Table 6 below.

2.4.1 CLARIFIER IMPROVEMENTS

Clarifiers #2 and #3 were constructed in 1975 and have a rated capacity of 6 mgd at 0.9 gpm/sf and 2 hours of detention time. As currently rated, total clarification capacity is 16 mgd total, and 10 mgd firm. This limits the plant capacity if one of the clarifiers is out of service for maintenance.

Each clarifier will be retrofitted with horizontal flocculators, inclined plate settler basins, sludge removal mechanisms and automated flow split control between clarifiers. The capacity of each new clarifier will be 8 mgd for a total capacity of 16 mgd between the two.

2.4.2 HVAC UPGRADES

In the existing control room, lab and office, moisture from the basins and filters is being drawn into the space above the ceilings. HVAC upgrades will be made to pressurize this area, preventing moisture from entering. The existing laboratory also needs a ventilating hood and other upgrades to its existing HVAC system. The HVAC upgrades also include the installation of dehumidification units in the pipe galleries.

2.4.3 ARCHITECTURAL IMPROVEMENTS

Architectural improvements include renovating alum and fluoride feed rooms to incorporate an office and conference rooms, replacing windows and handrails, repairing cracks in walls and repainting, replacing the roof, and HVAC upgrades.

2.4.4 LAB IMPROVEMENTS

Lab improvement items include replacing countertops and cabinets, upgrading electrical facilities, and instrumentation for process lab capability.

2.4.5 SOUTH LOW LIFT PUMP STATION (ELECTRICAL) UPGRADES

Work for the electrical upgrades at the South Low Lift Pump Station include replacing MCC and switch gear, replacing pump packing, replacing the traveling screen, and replacement of the isolation gate.



Table 6: Proposed Water Plant Improvements

Water Treatment Plant Projects					
Project	Estimated Cost				
Clarifier Improvements	\$6,160,000				
HVAC Upgrades	\$420,000				
Architectural Improvements	\$1,025,000				
Lab Improvements	\$100,000				
South Low Lift Pump Station (Electrical)	\$200,000				
Water Treatment Plant Projects	\$7,905,000				
Contingency (10%)	\$790,500				
Engineering (15%)	\$1,304,500				
Subtotal Water Treatment Plant Projects	\$10,000,000				

3.0 PROJECT NEED

Lead in drinking water is widely known to pose a public health risk, and the Michigan Lead and Copper Rule promulgated in 2018 required municipal water suppliers to create an initial distribution system materials inventory (DSMI) by January 1, 2020. A final DSMI is required by January 1, 2025. Starting in 2021, water suppliers must begin removing all lead service lines at a rate averaging 5 percent per year, not to exceed 20 years for replacing lead components within the water system.

Much of the infrastructure dates to the early 1900's, meaning that the facilities are operating beyond their useful lives and represent a high probability of failure and service disruption. Aging and undersized infrastructure means low water pressure, poor water quality, and inadequate fire flow in the drinking water system. Aging and unreliable infrastructure includes leaky water mains and additional costs associated with these deteriorating system components.

A detailed evaluation of the water plant was conducted in a SCIP Study in 2017. The study includes several recommendations for improvements to the existing plant. Although many improvements have been or are currently being made to the plant, further improvements to the facilities are needed to address reliability and performance issues associated with the aging equipment. Additionally, there are some treatment processes that are not suited to the raw water conditions for the plant. This includes the solids contact clarification process, which is prone to clarifier upsets during conditions of rapidly changing water temperatures in the lake.

4.0 POPULATION DATA

The City of St. Joseph population according to the 2010 U.S. Census was 8,365. The population served by the SJWTP is 33,000.



5.0 ENVIRONMENTAL SETTING

5.1 FLOODPLAINS AND WETLANDS

Sensitive areas in St. Joseph consist of beaches and wetlands. Along much of Lake Michigan's shoreline are vast stretches of sandy beaches. These beaches require special attention to minimize erosion from wind and wave action. Wetlands are present in St. Joseph and a map of wetland locations is included in Appendix C. The emergent wetlands in St. Joseph are on the northeastern shore of Marina Island and on the west shore of the St. Joseph River south of Marina Island. Riverine wetlands may exist in the river channel west of Marina Island and on the St. Joseph River shoreline north of the City. The proposed work is not anticipated to impact wetlands in any capacity.

The extent of the 500-year flood boundary, as defined by the National Flood Insurance Program, consists primarily of the areas immediately adjacent to the St Joseph River, the Paw Paw River, and their tributaries. The floodplain map designates areas which are susceptible to flooding. The largest floodplains are along the St. Joseph and the Paw Paw Rivers, which are more susceptible to short term fluctuations than Lake Michigan. The majority of Marina Island and the area between M-63 and the Paw Paw River are in the floodplain. A narrow band of land along Lake Michigan's shoreline is also in the 100-year floodplain. St. Joseph has a ravine, which crosses the City from the southwest to the northeast. The ravine contains many flood-prone areas that are not directly related to either the lake or the rivers. The only project that is expected to impact the floodplain is the Upton Drive Reconstruction Project, which would include limited excavation and grading within the floodplain as it is expected that the proposed roadway will be construction to the existing roadway elevations. Floodplain limits for the Upton Drive Project is in Appendix D.

5.2 COASTAL ZONE

The City's entire western boundary is Lake Michigan, a coastal zone. The nearest National Natural Landmarks to the project site are the Grand Mere Lakes and Warren Woods Natural Area. These landmarks are located on the lakeshore six and ten miles south of St. Joseph, respectively, and will not be affected by the selected alternatives.

5.3 AGRICULTURAL RESOURCES

The National Environmental Policy Act defines several classifications of farmland including Prime and Unique farmland. Prime farmland is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops, and is also available for these uses. Unique farmland is land other than prime farmland that is used for the production of specific high value food and fiber crops. It has the special combination of soil quality, location, growing season, and moisture supply needed to economically produce sustained high quality and/or high yields of a specific crop when treated and managed according to acceptable farming methods.

There are 332 million acres of prime farmland in the United States. There are no prime and unique agricultural parcels located within or adjacent to the selected alternatives.



5.4 PROTECTED PLANTS, ANIMALS, AND HABITAT

Currently, nine species are listed as threatened or endangered by the U.S. Fish and Wildlife Service (USFWS) in Berrien County. Endangered or threatened designated species are protected under the Endangered Species Act. The projects proposed within this Plan take place within already developed areas and are not expected to impact any habitat. Where tree trimming or removal is necessary, this work will be scheduled to mitigate impacts on threatened or endangered species (Indiana Bat).

Table 7 indicates the species listed as endangered or threatened in Berrien County:

Table 7: Threatened and Endangered Species in Berrien County, MI

Species	Status	Habitat
Whooping Crane (Grus americanus)	**non-essential experimental population	Open wetlands and lakeshores
Indiana Bat (Myotis sodalis)	endangered	Summer habitat includes small to medium river and stream corridors with well-developed riparian woods; woodlots within 1 to 3 miles of small to medium rivers and streams; and upland forests. Caves and mines as hibernacula.
Northern Long-Eared Bat (Myotis septentrionalis)	threatened	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests during spring and summer.
Piping Plover (Charadrius melodus)	endangered	Beaches along shorelines of the Great Lakes
Rufa Red Knot (Calidris canutus rufa)	threatened	Only actions that occur along coastal areas during the red knot migratory window of May 1 - September 30
Eastern Massasauga (Sistrurus catenatus)	threatened	Wet prairies, marshes and low areas along rivers and lakes. They often hibernate in burrows, under logs, and tree roots
Mitchell's Satyr Butterfly (Neonympha mitchellii mitchellii)	endangered	Fens; wetlands characterized by calcareous soils which are fed by carbonate-rich water from seeps and springs
Pitcher's Thistle (Cirsium pitcher)	threatened	Stabilized dunes and blowout areas
Small whorled pogonia (Myotis sodalist)	threatened	Dry woodland; upland sites in mixed forests (second or third growth stage)
(Myotis sodalist)		third growth stage)

6.0 EXISTING FACILITIES

Please refer to the 2017 DWRF Project Plan for a description of existing facilities for the water treatment plant and distribution system.

6.1 LEAD SERVICE REPLACEMENT

The City of St. Joseph received grant funding as part of pilot program to improve their water supply system by reviewing and identifying existing water service lines to determine if lead materials are present within the municipal water system. The study provided confirmation by identifying both sides of a water service. The water service material from the distribution main to the shutoff at the right of way, has always been the responsibility of the City. The homeowner is typically responsible for their portion of the service line from the right or way to inside the home. As part of the lead service pilot grant, the City of St. Joseph was able to identify areas of the



system that contained lead services, or galvanized fittings, to update their DSMI from the main to the home. As all the existing services were not completed as part of the pilot grant, the City used this data to project an anticipated amount of water service lines that would be required to be replaced in the next 20 years as part of the new lead and copper rule requirements. The pilot grant allowed the City of St. Joseph to receive a head start to manage the lead service replacements that will be required by the State of Michigan in the future.

7.0 ALTERNATIVES ANALYSIS

Please refer to the 2017 DWRF Project Plan for alternative analysis for water treatment plant and water distribution improvements. The following sections provide alternatives analysis for the lead service line replacements only.

7.1 NO ACTION TAKEN

The No-Action alternative was not considered a feasible option because it would not address the public health risk posed by water service lines made of lead or galvanized steel or meet the requirements of the Lead and Copper Rule.

7.2 PARTIAL REPLACEMENT

Partial replacements of lead service lines (only up to the private property boundary) are not feasible because partial replacement is prohibited under the Michigan Lead and Copper Rule.

7.3 REGIONALIZATION

Regionalization is not applicable, because the St. Joseph water system already serves customers in multiple communities and the lead services in question are entirely within the City of St. Joseph.

7.4 SUMMARY

For planning purposes, the only feasible alternative is full replacement of lead water service lines from the public water main to the customer's water meter. Assessments of different pipe materials, excavation methods, and details of meter installation are design and construction considerations, and should not be intermixed with the planning-phase alternatives analysis. Furthermore, because a city of St. Joseph standard policy allows only copper to be used in service lines within the public right of way, a DWSRF planning assessment of other material options is not applicable. Consequently, when only one feasible alternative exists, a cost-effectiveness comparison between two or more feasible alternatives is not required by the DWSRF loan program.

8.0 **ENVIRONMENTAL AND OTHER IMPACTS**

The projects will be constructed in already developed areas and road right-of-ways minimizing environmental impacts.



8.1 PROTECTION OF PUBLIC HEALTH AND THE ENVIRONMENT

Primary impacts on the environment would be both long-term and short-term. The expenditure of monetary resources for construction, the use of energy for construction, and the short-term disturbance to the community due to construction are all primary direct impacts.

Long-term effects of the proposed alternative would include the benefit of decreased risk of health issues related to poor water quality.

Short-term impact will be related to construction. Minor impacts will include the increase in noise and dust at the construction sites, along with emissions from both gasoline and diesel engines. Impacts resulting from construction practices will cease or be repaired at the completion of the project.

Adverse impacts upon sensitive environmental areas will be either non-existent or minimal. Construction of work will take place within existing road right-of-ways and facilities in the city. There are no historical or archeological sites anticipated to be disturbed within the proposed plan area.

8.2 WATER CUSTOMER IMPACTS

The impacted locations to water customers can be seen on Figure 2, unless a water main break or high lead testing results in the replacement of the water service as described. Most service replacements will occur in locations of planned future water distribution and capital improvement projects as identified on this and prior approved plans. Service replacements will be made adjacent to these project locations. The impact during construction will include removing existing pavement, installing a new water service from the existing water main, providing a new water shutoff, and replacing the existing water service from the right of way to the residence.

8.3 MITIGATION

The Water Distribution System within the City of St. Joseph has existed for over 100 years. The projects suggested by this Project Plan are predominately that of replacement and rehabilitation of existing facilities. Generally, these projects are not anticipated to create significant environmental impact.

Environmental impacts of construction are limited to the potential for those stemming from tree trimming or removal. Where tree trimming or removal is necessary, this work will be scheduled to mitigate impacts on threatened or endangered species (Indiana Bat).

The primary adverse impacts are related to the construction work required for sewer construction. These impacts can be minimized through efficient and cost effective design and construction practices, soil erosion control procedures, air pollution control equipment, noise control, mufflers and limitations to the allowed hours of work. The project will also be segmented to allow a balanced construction cycle to minimize inconvenience to the community as a whole.

Soil erosion control procedures, such as the use of silt fence, erosion control blanket, watering, and the immediate seeding of disturbed areas with help to control erosion caused by rainfall



and wind. Air pollution can be minimized by proper maintenance through proper muffling of equipment and through limiting construction to acceptable times during the daytime hours.

The following measures could be taken to avoid, eliminate, or mitigate potential adverse impacts on the environment:

- Traffic Control Flagmen, Warning Signs, Barricades, Cones, etc.
- Dust Control Calcium Chloride and Water.
- Noise Control Designate Work Hours, Mufflers, No Work on Weekends, Holidays, Religious Observance Times.
- Soil Erosion and Sedimentation Control Seeding, Sodding, Rip Rap, Erosion-Control Blankets,
 Silt Fence, etc.
- Restoration Pavement, Gravel, Topsoil, Seed, Fertilizer, Mulch, Sod.

9.0 PROJECT FUNDING AND SCHEDULE

9.1 PROJECT FUNDING

Funding for the Langley Avenue project would come from a combination of Drinking Water State Revolving Fund (DWSRF) and Clean Water State Revolving Fund (CWSRF) low interest loans, MDOT TIP (Road) and CMAQ (Trail/Path) funds, Water and Sewer funds and the City's local street fund. Funding for Upton Drive is expected to come from the DWSRF and possibly MDOT Road and Transportation Alternative Program (TAP) funds along with MEDC assistance. Lead service line replacement loans will be repaid with city water funds. Water plant improvement loans will be repaid with system water funds. The money from the DWSRF loans would cover the water system replacement work as well as the cost of replacing sections of roadway and sidewalk that will need to be removed to complete work. It is expected that the DSWRF loan will be payable over 20-30 years. Therefore, the expected annual debt repayment is \$200,000 - \$280,000 per year for the 2021 loan depending on the loan duration. Expected funding for the 2021 projects is summarized below in Table 8.

Table 8: 2021 Project Funding

Project	Total Cost	DWSRF	CWSRF	TIP	CMAQ	MDOT	MEDC	City
Lead Service Line Replacements	\$1,090,200	\$1,090,200						
Langley Avenue Reconstruction	\$5,341,685	\$2,136,674	\$473,955	\$722,027	\$100,000			\$1,909,029
Upton Drive Reconstruction	\$3,321,461	\$1,328,584	\$442,270			\$1,450,607	\$100,000	
Cost of Issuance	\$146,654	\$96,654	\$50,000					
	\$9,900,000	\$4,652,112	\$966,225	\$722,027	\$100,000	\$1,450,607	\$100,000	\$1,909,029



9.2 CONSTRUCTION COST

The estimated construction costs for all projects through FY 2025 is \$30,475,000. Of this total, \$21,438,621 is eligible for DWRF Loan (See Table 9). A detailed summary of the estimated project costs is included in Appendix A.

Table 9: Project Cost Summary 2021-2025

Year	Project	Project Cost	DWSRF	
	Lead Service Replacements	\$1,090,200		
2021	Distribution System Projects	\$8,663,146	\$4,652,112	
	Cost of Issuance	\$146,654		
	Lead Service Replacements	\$1,035,000		
	Distribution System Projects	\$700,215		
2022	Water Treatment Plant \$10,000,000		\$11,447,025	
	Cost of Issuance	\$164,785		
	Lead Service Replacements	\$1,035,000		
2023	Distribution System Projects	\$2,558,547	\$2,087,278	
	Cost of Issuance	\$56,453		
	Lead Service Replacements	\$1,035,000		
2024	Distribution System Projects	\$2,856,604 \$2,208,89		
	Cost of Issuance	\$58,396		
2025	Lead Service Replacements	\$1,035,000	\$1,043,312	
2025	Cost of Issuance	\$40,000	Ş1,U43,312	
	Total Cost	\$30,475,000	\$21,438,621	

9.3 CONSTRUCTION SCHEDULE

Construction of the first phase is proposed to start in April 2021 with a completion date in May 2023. Each following year is expected to follow a similar commencement date.

9.4 COST TO USERS

The expected annual debt repayment for FY 2021 is \$200,000 per year for 30 years. With 4,266 users it is expected that the necessary increase in rates to finance the remaining cost will be an average of \$3.90/month per user.



10.0 PUBLIC INVOLVEMENT

Throughout the process of the SAW Grant, Water Asset Management Plans, and Water Reliability Study, the Community has been involved with the process of reviewing and approving of the reports and recommendations contained therein. The findings, recommendations, and impacts of the proposed plans have been presented to the public at the City Commission meetings.

A public hearing will be held on June 8th, 2020. Documents related to the hearing and a transcript can be found in Appendix H.



APPENDIX A

YEARLY COST SUMMARY (FY 2021 - FY 2025)



FY 2021				
Lead Service Replacement Projects				
Description	No. of Replacements	Estimated Cost	DWSRF	
Langley Avenue: (Napier Ave to Pearl St)	95	\$570,000	\$570,000	
Upton Drive: (St. Joseph River to North City Limits)	13	\$78,000	\$78,000	
Leaking/Broken Water Services	25	\$150,000	\$150,000	
Services Testing High for Lead	25	\$150,000	\$150,000	
Lead Service Replacement Projects		\$948,000	\$948,000	
Contingency (0%)		\$0	\$0	
Engineering (15%)		\$142,200	\$142,200	
Subtotal LSRL Projects		\$1,090,200	\$1,090,200	
Distribution 9	ystem Projects			
Project	Length (Feet)	Estimated Cost	DWSRF	
Langley Ave Reconstruction (Napier Ave to Pearl St)	4600	\$3,956,804	\$1,582,722	
Upton Dr Reconstruction (St. Joseph River to Momany Dr)	2650	\$2,460,341	\$984,136	
Distribution System Projects		\$6,417,145	\$2,566,858	
Contingency (20%)		\$1,283,429	\$513,372	
Engineering (15%)		\$962,572	\$385,029	
Subtotal Distribution System Projects		\$8,663,146	\$3,465,258	
Total Cost				
Subtotal All Projects		\$9,753,346	\$4,555,458	
Cost of Issuance		\$146,654	\$96,654	
Total FY 2021 Loan Amount		\$9,900,000	\$4,652,112	



FY 2022 Lead Service Replacement Projects			
Donna Drive: (Lakeview Ave to S. State St)	17	\$102,000	\$102,000
Lester Avenue: (Niles Ave to Willa Dr)	7	\$42,000	\$42,000
Willa Drive: (St. Joseph Dr to Highland Ave)	26	\$156,000	\$156,000
Botham Avenue: (S. State St to Niles Ave)	20	\$120,000	\$120,000
Water Services for CIP Projects	30	\$180,000	\$180,000
Leaking/Broken Water Services	25	\$150,000	\$150,000
Water Services Testing High for Lead	25	\$150,000	\$150,000
Lead Service Replacement Projects	<u> </u>	\$900,000	\$900,000
Contingency (0%)		\$0	\$0
Engineering (15%)		\$135,000	\$135,000
Subtotal LSRL Projects		\$1,035,000	\$1,035,000
	System Projects		
Project	Length (Feet)	Estimated Cost	DWSRF
Donna Dr Reconstruction (Lakeview Ave to S. State St)	710	\$518,678	\$207,471
Distribution System Projects		\$518,678	\$207,471
Contingency (20%)		\$103,736	\$41,494
Engineering (15%)		\$77,802	\$31,121
Subtotal Distribution System Projects		\$700,215	\$280,086
Water Treatn	ent Plant Projects		
Project		Estimated Cost	DWSRF
Clarifier Improvements		\$6,160,000	\$6,160,000
HVAC Upgrades		\$420,000	\$420,000
Architectural Improvements		\$1,025,000	\$1,025,000
Lab Improvements		\$100,000	\$100,000
South Low Lift Pump Station (Electrical)		\$200,000	\$200,000
Water Treatment Plant Projects		\$7,905,000	\$7,905,000
Contingency (10%)		\$790,500	\$790,500
Engineering (15%)		\$1,304,500	\$1,304,500
Subtotal Water Treatment Plant Projects		\$10,000,000	\$10,000,000
To	tal Cost		
Subtotal All Projects		\$11,735,215	\$11,315,086
Cost of Issuance		\$164,785	\$131,939
Total FY 2022 Loan Amount		\$11,900,000	\$11,447,025



FY 2023				
Lead Service Replacement Projects				
Description	No. of Replacements	Estimated Cost	DWSRF	
Willa Drive: (Napier Ave to Kingsley Ave)	11	\$66,000	\$66,000	
Willa Drive: (Highland Ave to Van Brunt Ave)	50	\$300,000	\$300,000	
Water Services for CIP Projects	22	\$132,000	\$132,000	
Leaking/Broken Water Services	25	\$150,000	\$150,000	
Water Services Testing High for Lead	25	\$150,000	\$150,000	
Botham Avenue: (Niles Ave to Morton Ave) - Priority 5	17	\$102,000	\$102,000	
Lead Service Replacement Projects		\$900,000	\$900,000	
Contingency (0%)		\$0	\$0	
Engineering (15%)		\$135,000	\$135,000	
Subtotal LSRL Projects		\$1,035,000	\$1,035,000	
Distribution Sy	stem Projects			
Project	Length (Feet)	Estimated Cost	DWRF	
Lester Ave Reconstruction (Niles Ave to Willa Dr)	790	\$548,559	\$219,423	
Willa Dr Reconstruction (St. Joseph Drive to Highland Ave)	1109	\$820,161	\$328,064	
Botham Ave Water Main Replacement (S. State St to Niles Ave)	686	\$526,501	\$210,600	
Distribution System Projects		\$1,895,220	\$758,088	
Contingency (20%)		\$379,044	\$151,618	
Engineering (15%)		\$284,283	\$113,713	
Subtotal Distribution System Projects		\$2,558,547	\$1,023,419	
Total Cost				
Subtotal All Projects		\$3,593,547	\$2,058,419	
Cost of Issuance		\$56,453	\$28,859	
Total FY 2023 Loan Amount		\$3,650,000	\$2,087,278	



FY 2024				
Lead Service Replacement Projects				
Description	No. of Replacements	Estimated Cost	DWSRF	
Water Services for CIP Projects	100	\$600,000	\$600,000	
Leaking/Broken Water Services	25	\$150,000	\$150,000	
Water Services Testing High for Lead	25	\$150,000	\$150,000	
Lead Service Replacement Projects		\$900,000	\$900,000	
Contingency (0%)		\$0	\$0	
Engineering (15%)		\$135,000	\$135,000	
Subtotal LSRL Projects		\$1,035,000	\$1,035,000	
Distribution Sys	tem Projects			
Project	Length (Feet)	Estimated Cost	DWSRF	
Upton Dr Reconstruct-2 (Momany Dr to N. City Limits)	2015	\$1,373,077	\$549,231	
Willa Dr Reconstruction-2 (Highland Ave to Van Brunt Ave)	686	\$516,010	\$206,404	
Willa Dr. Water Main Installation - 3 (Napier Ave to Kingsley Ave)	333	\$226,915	\$90,766	
Distribution System Projects		\$2,116,003	\$846,401	
Contingency (20%)		\$423,201	\$169,280	
Engineering (15%)		\$317,400	\$126,960	
Subtotal Distribution System Projects		\$2,856,604	\$1,142,642	
Total Cost				
Subtotal All Projects		\$3,891,604	\$2,177,642	
Cost of Issuance		\$58,396	\$31,252	
Total FY 2024 Loan Amount		\$3,950,000	\$2,208,894	



FY 2025				
Lead Service Replacement Projects				
Description	No. of Replacements	Estimated Cost	DWSRF	
Water Services for CIP Projects	100	\$600,000	\$600,000	
Leaking/Broken Water Services	25	\$150,000	\$150,000	
Water Services Testing High for Lead	25	\$150,000	\$150,000	
Lead Service Replacement Projects		\$900,000	\$900,000	
Contingency (0%)		\$0	\$0	
Engineering (15%)		\$135,000	\$135,000	
Subtotal LSRL Projects		\$1,035,000	\$1,035,000	
Total Cost				
Subtotal All Projects		\$1,035,000	\$1,035,000	
Cost of Issuance		\$40,000	\$8,312	
Total FY 2025 Loan Amount		\$1,075,000	\$1,043,312	

Cost Summary FY 2021-2025			
Year	Estimated Cost	DWSRF	
Total FY 2021 Loan Amount	\$9,900,000	\$4,652,112	
Total FY 2022 Loan Amount	\$11,900,000	\$11,447,025	
Total FY 2023 Loan Amount	\$3,650,000	\$2,087,278	
Total FY 2024 Loan Amount	\$3,950,000	\$2,208,894	
Total FY 2025 Loan Amount	\$1,075,000	\$1,043,312	
Total	\$30,475,000	\$21,438,621	

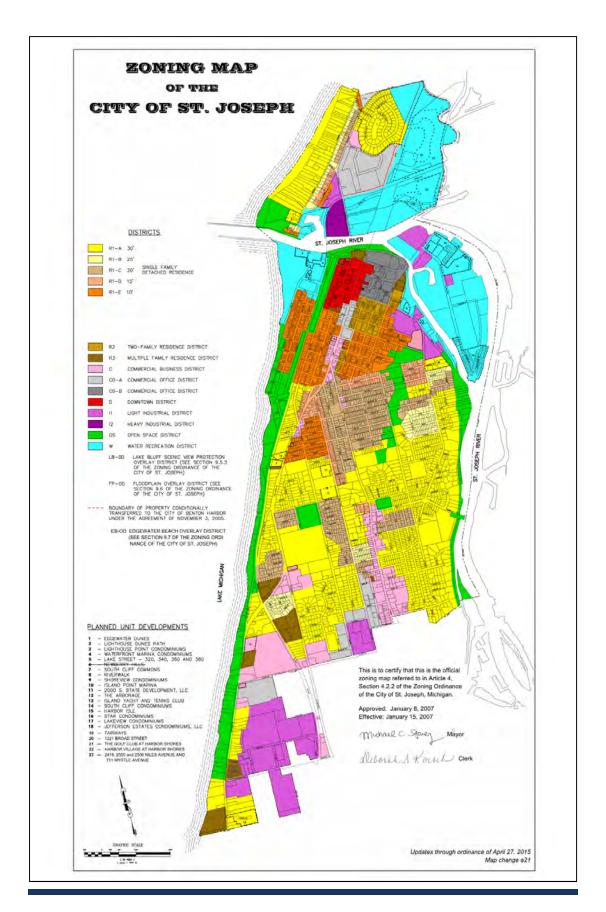


APPENDIX B

CITY OF ST. JOSEPH ZONING MAP

(ST. JOSEPH 2016 MASTER PLAN)



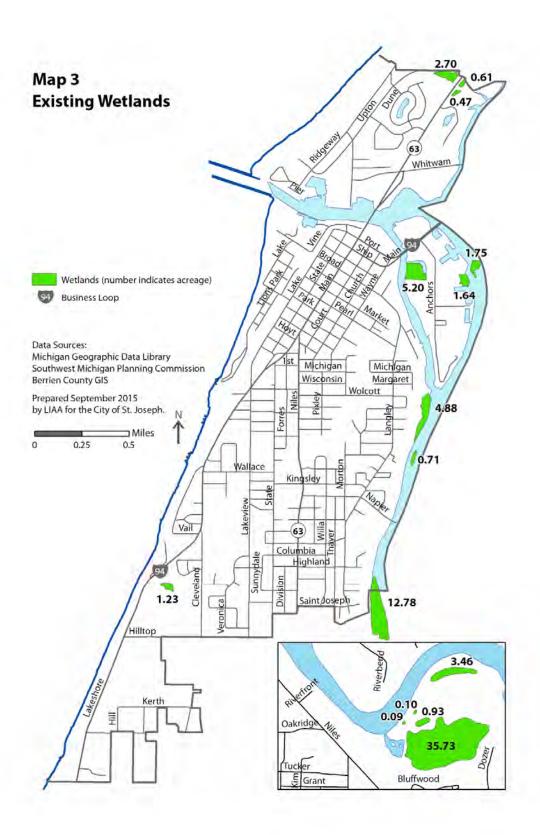


APPENDIX C

CITY OF ST. JOSEPH WETLAND MAP

(PROVIDED BY LIAA FOR ST. JOSEPH ON 2016 MASTER PLAN)



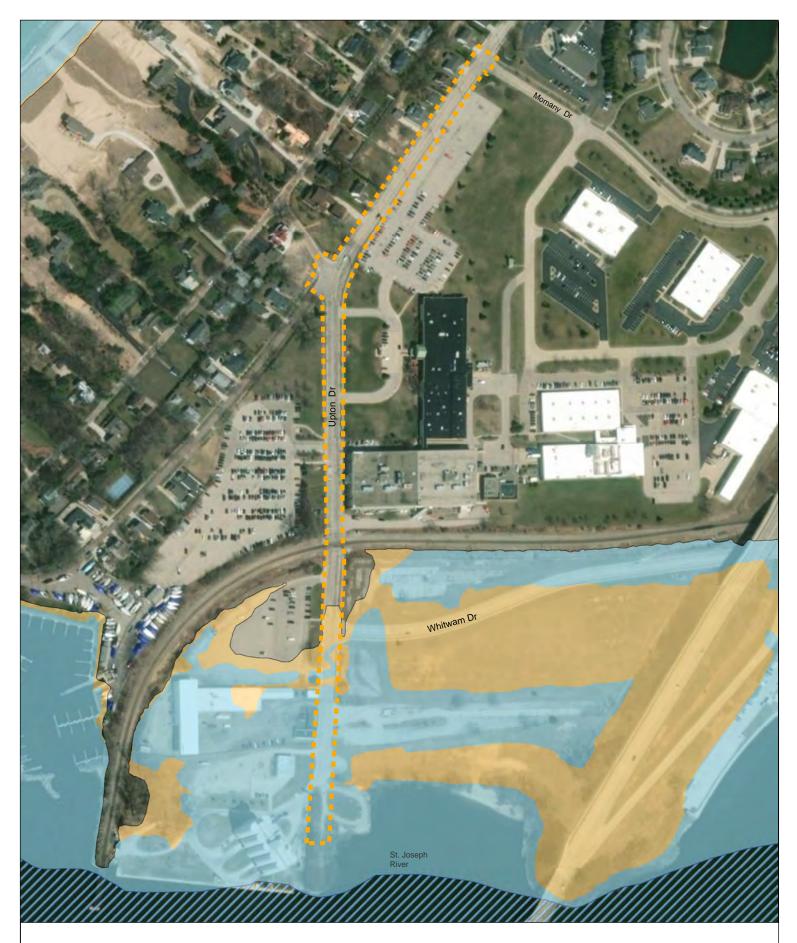




APPENDIX D

UPTON DRIVE FLOODPLAIN MAP



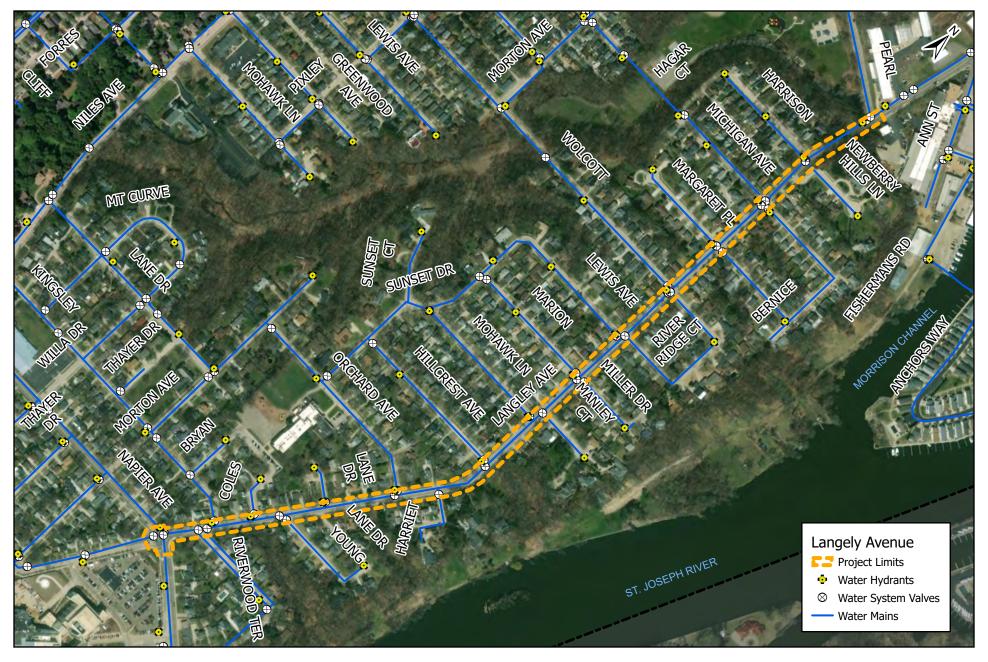




APPENDIX E

PROJECT LOCATION MAPS







Langley Ave LSLR and Water Distribution System Improvement Location

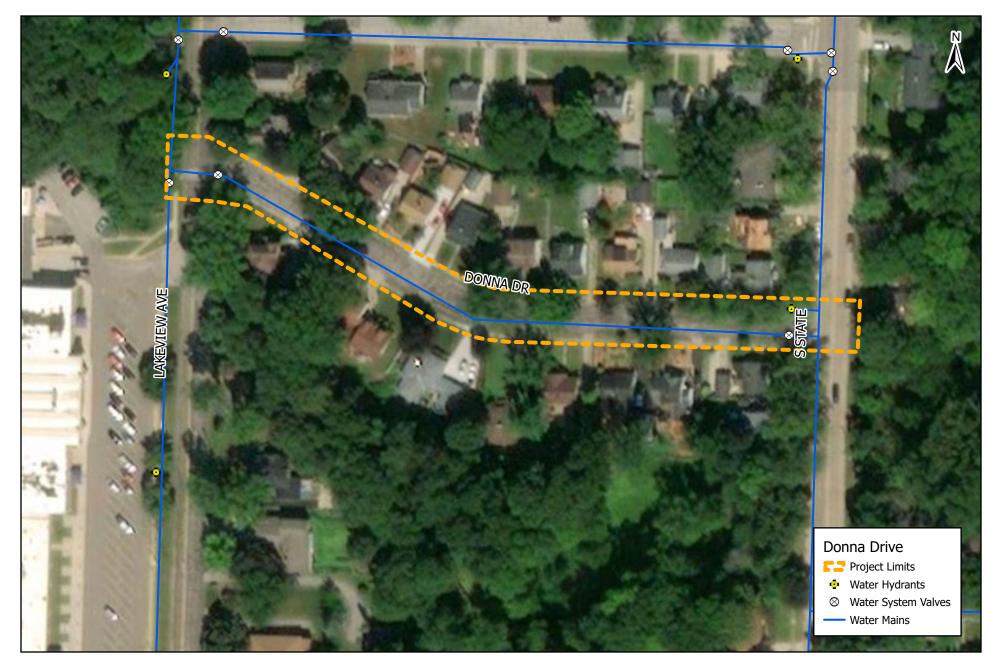




Upton Drive LSLR and Water Distribution System Improvement Location

DRAWN BY: AKA DATE: 5/5/2020

Scale: 1" = 300'





Donna Drive LSLR and Water Distribution System Improvement Location



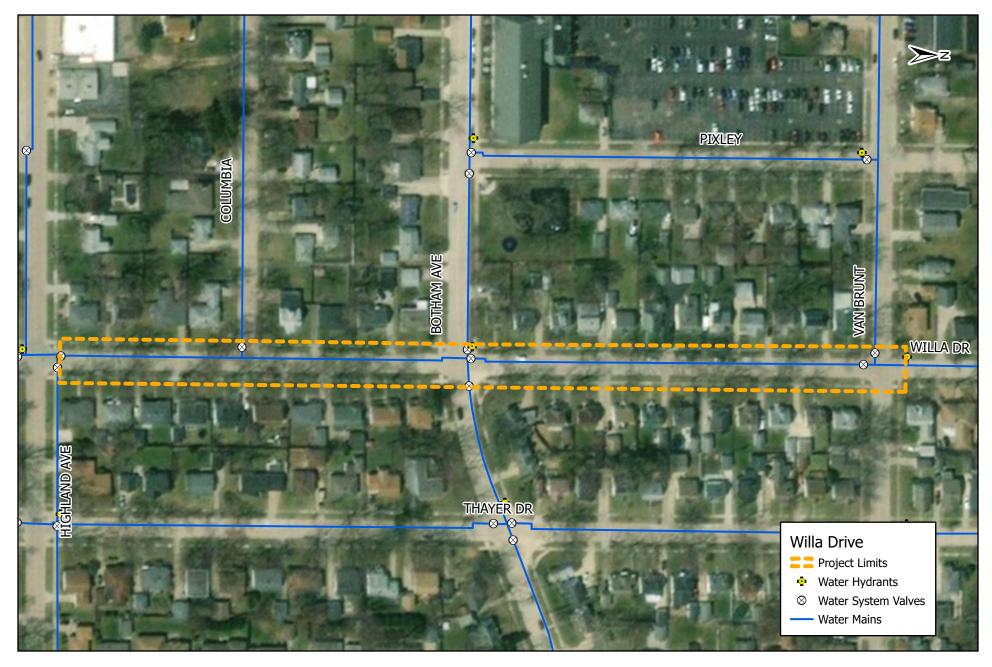


Willa Drive and Lester Avenue LSLR and Water Distribution System Improvement Location





Botham Avenue LSLR and Water Distribution System Improvement Location



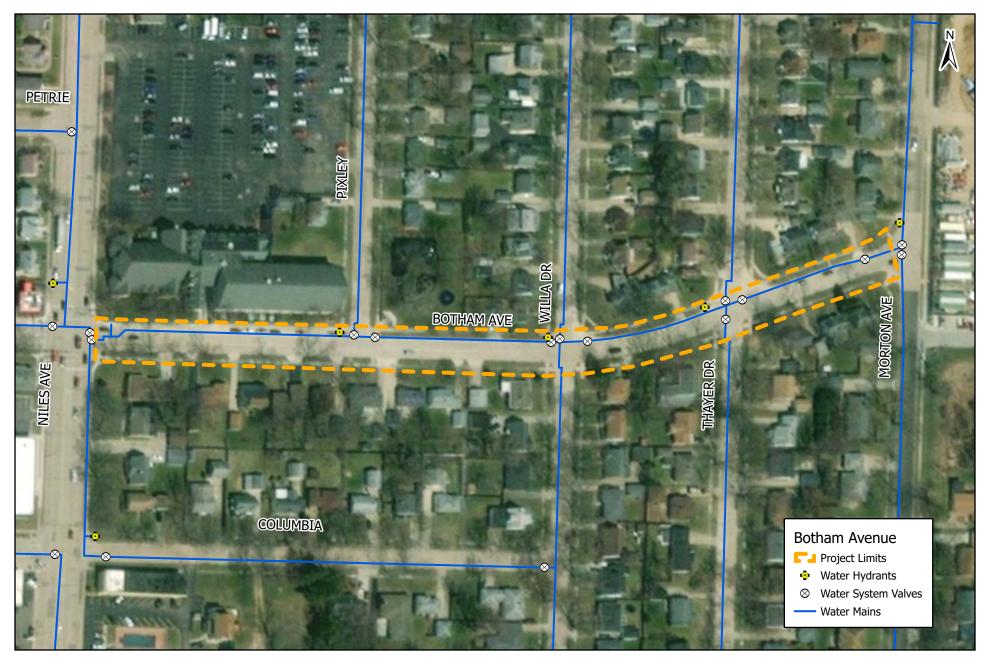


Willa Drive LSLR and Water Distribution System Improvement Location





Willa Drive LSLR and Water Distribution System Improvement Location





Botham Avenue Lead Service Line Replacement (Priority 5) Location Scale: 1" = 150'





Upton Drive LSLR and Water Distribution System Improvement Location

APPENDIX F

SHPO/THPO SUBMITTALS





LETTER OF TRANSMITTAL

TO:	SHPO: Cultural Res Management and		d Planning Section	DATE: May 6, 2020		JOB NO.: 20-0260			
		lorth Washing ng, MI 48913	gton Square,	RE:	Saint Joseph DWSRF Proj City of Saint Joseph				
ATTN:	To Wh	om it May Co	ncern Berrien C		Berrien Coun	County, Michigan			
WE ARE SENDING YOU:		NG YOU:	Contract / Agree	tract / Agreement		' Plans	Shop Drawings		
			Change Order		☐ Specif	ications	oxtimes See Below		
COF	PIES	DATE	DESCRIPTION						
1		05/05/20	Completed SHPO Application and Attachments						
THESE A	ARE TRA	ANSMITTED as	checked below:						
☐ For	☐ For Review & Comment ☐ For Your Use ☐ As Requested			ed					
☐ Approved as Submitted ☐ Approved as Not			Note	Returned for Corrections					
For Bids Due:									
REMAR			tached the Section 10 n Saint Joseph, MI.	6 SHP	O application	for the Sain	t Joseph DWRF		
	S	hould you ho	ave any questions or co	omm	ents, please fe	el free to co	ontact our office.		
					SIGNED:				
					-	Jonathan (Greco		
						Staff Engine			

95 West Main Street, Benton Harbor, MI 49022 • 269.927.2295 abonmagehe.com

If enclosures are not as noted, kindly notify us at once.





May 6, 2020

State Historic Preservation Office Cultural Resources Management and Planning Section 300 North Washington Square, Lansing, MI 48913

RE: Saint Joseph DWSRF Project Plan City of Saint Joseph

Section 106 Review

To Whom It May Concern:

The City of Saint Joseph has prepared a planning report for application to The Department of Environment, Great Lakes and Energy, Drinking Water State Revolving Fund. Starting in fiscal year 2021 to fund lead service line replacements and water distribution system improvements.

As part of this process, we are requesting a Section 106 Review.

The proposed work consists of replacing the existing water, sanitary, and storm sewer mains and related infrastructure including the roadway and sidewalks. All work is expected to be within existing road right-of-ways or existing facilities and not impact any historic properties.

Thank you for your assistance in this matter. If you have any questions or comments, please feel free to contact me at (269) 208-2479 or jgreco@abonmarche.com.

Sincerely, ABONMARCHE

Jonathan Greco Staff Engineer

Attachment: Application for Section 106 Review

STATE HISTORIC PRESERVATION OFFICE Application for Section 106 Review

UTILITY INSTALLATION, ETC.)	SHPO Use C	Only Received Date / / Log In Date / / Response Date / / Log Out Date / / Sent Date / / / /
a. Project Name: Saint Joseph DWRF Project Plan b. Project Address (if available): City of Saint Joseph, see attached maps c. Municipal Unit: City of Saint Joseph County: Berrien d. Federal Agency, Contact Name and Mailing Address (if you do not know the federal agency involved in your project please contact the party requiring you to apply for Section 106 review, not the SHPO, for this information.): N/A e. State Agency (if applicable), Contact Name and Mailing Address: Cindy Clendenon,EGLE Water Infrastructure Financing, P.O. Box 30817, Lansing, Michigan 48909-8311 f. Consultant or Applicant Contact Information (if applicable) including mailing address: Jonathan Greco, Staff Engineer, Abonmarche Consultants, Inc., 95 W. Main St, Benton Harbor, MI 49022 III. GROUND DISTURBING ACTIVITY (INCLUDING EXCAVATION, GRADING, TREE REMOVALS, UTILITY INSTALLATION, ETC.) DOES THIS PROJECT INVOLVE GROUND-DISTURBING ACTIVITY? ☑ YES ☑ NO (If no, proceed to section III.) Precise project location map (preferably USGS 7.5 min Quad with quad name, date, and location) with previously recorded archaeological sites visible (this site information is available to qualified archaeologists at the SHPO Office) Portions, photocopies of portions, and electronic USGS maps are acceptable as long as the location is clearly marked. a. USGS Quad Map Name: Saint Joseph Quadrangle b. Township: Range: Section: c. Site plan showing limits of proposed excavation. Description of width, length and depth of proposed ground disturbing activity: see attached d. Previous land use and disturbances: Roadway through residential and commercial corridor; water supply structures e. Current land use and conditions: Roadway through residential and commercial corridor; water supply structures	must be cor only the info	implete for review to begin. Incomplete applications will be sent back to the applicant without comment. Send formation and attachments requested on this application. Materials submitted for review cannot be returned.
 b. Project Address (if available): City of Saint Joseph, see attached maps c. Municipal Unit: City of Saint Joseph County: Berrien d. Federal Agency, Contact Name and Mailing Address (<i>If you do not know the federal agency involved in your project please contact the party requiring you to apply for Section 106 review, not the SHPO, for this information.</i>): N/A e. State Agency (if applicable), Contact Name and Mailing Address: Cindy Clendenon,EGLE Water Infrastructure Financing, P.O. Box 30817, Lansing, Michigan 48909-8311 f. Consultant or Applicant Contact Information (if applicable) <i>including mailing address</i>: Jonathan Greco, Staff Engineer, Abonmarche Consultants, Inc., 95 W. Main St, Benton Harbor, MI 49022 III. GROUND DISTURBING ACTIVITY (INCLUDING EXCAVATION, GRADING, TREE REMOVALS, UTILITY INSTALLATION, ETC.) DOES THIS PROJECT INVOLVE GROUND-DISTURBING ACTIVITY? YES NO (If no, proceed to section III.) Precise project location map (preferably USGS 7.5 min Quad with quad name, date, and location) with previously recorded archaeological sites visible (this site information is available to qualified archaeologists at the SHPO Office) Portions, photocopies of portions, and electronic USGS maps are acceptable as long as the location is clearly marked. a. USGS Quad Map Name: Saint Joseph Quadrangle b. Township: Range: Section: c. Site plan showing limits of proposed excavation. Description of width, length and depth of proposed ground disturbing activity: see attached d. Previous land use and disturbances: Roadway through residential and commercial corridor; water supply structures e. Current land use and conditions: Roadway through residential and commercial corridor; water supply structures 	⊠тні	_
UTILITY INSTALLATION, ETC.) DOES THIS PROJECT INVOLVE GROUND-DISTURBING ACTIVITY? ☐ YES ☐ NO (If no, proceed to section III.) Precise project location map (preferably USGS 7.5 min Quad with quad name, date, and location) with previously recorded archaeological sites visible (this site information is available to qualified archaeologists at the SHPO Office) Portions, photocopies of portions, and electronic USGS maps are acceptable as long as the location is clearly marked. a. USGS Quad Map Name: Saint Joseph Quadrangle b. Township: Range: Section: c. Site plan showing limits of proposed excavation. Description of width, length and depth of proposed ground disturbing activity: see attached d. Previous land use and disturbances: Roadway through residential and commercial corridor; water supply structures e. Current land use and conditions: Roadway through residential and commercial corridor; water supply structures	b. c. d.	Project Address (if available): City of Saint Joseph, see attached maps Municipal Unit: City of Saint Joseph County: Berrien Federal Agency, Contact Name and Mailing Address (<i>If you do not know the federal agency involved in your project please contact the party requiring you to apply for Section 106 review, not the SHPO, for this information.</i>): N/A State Agency (if applicable), Contact Name and Mailing Address: Cindy Clendenon,EGLE Water Infrastructure Financing, P.O. Box 30817, Lansing, Michigan 48909-8311 Consultant or Applicant Contact Information (if applicable) <i>including mailing address</i> : Jonathan Greco, Staff
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	e.	Current land use and conditions: Roadway through residential and commercial corridor; water supply
	f.	

III. PROJECT WORK DESCRIPTION AND AREA OF POTENTIAL EFFECTS (APE) Note: Every project has an APE.

- a. Provide a detailed written description of the project (plans, specifications, Environmental Impact Statements (EIS), Environmental Assessments (EA), etc. <u>cannot</u> be substituted for the written description): see attached
- b. Provide a localized map indicating the location of the project; road names must be included and legible.
- c. On the above-mentioned map, identify the APE.

d.	Provide a written description of the APE (physical, visual, auditory, and sociocultural), the steps taken to identify the APE, and the justification for the boundaries chosen. see attached

IV. IDENTIFICATION OF HISTORIC PROPERTIES

a.	List and date <u>all</u> properties 50 years of age or older located in the APE. <u>The Section 106 Above-Ground</u>				
	Resources inventory form is the preferred format for providing this information and a completed form				
	should be included as an attachment to this application. If the property is located within a National Register				
	eligible, listed or local district it is only necessary to identify the district: see attached				
b.) ————————————————————————————————————				
	of effort made to carry out such steps: There are no physical structures within the APE for street projects as				
	defined by the public right of way. There were also no registered national historic sites listed on the National				
	Register of Historic Places within these limits.				
C.					
	Historic Properties Present in the APE				
	No Historic Properties Present in the APE				
d.	Describe the condition, previous disturbance to, and history of any historic properties located in the APE: N/A				
	V. PHOTOGRAPHS				
	Note: All photographs must be keyed to a localized map.				
	Note. All photographs must be keyed to a localized map.				
a.	Provide photographs of the site itself.				
b.					
	photographs are not acceptable).				
	VI. DETERMINATION OF EFFECT				
	VI. DETERMINATION OF EFFECT				
	Note: you must provide a statement explaining/justifying your determination.				
	Include statement as an attachment if necessary.				
	·				
\boxtimes	☑ No historic properties affected based on [36 CFR § 800.4(d)(1)], please provide the basis for this				
de	determination.				

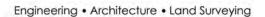
Please print and mail completed form and required information to:
State Historic Preservation Office, Cultural Resources Management Section
Michigan Economic Development Corporation
300 North Washington Square, Lansing, MI 48913

No Adverse Effect [36 CFR § 800.5(b)] on historic properties, explain why the criteria of adverse effect, 36

Adverse Effect [36 CFR § 800.5(d)(2)] on historic properties, explain why the criteria of adverse effect, [36

CFR Part 800.5(a)(1), were found not applicable.

CFR Part 800.5(a)(1)], were found applicable.

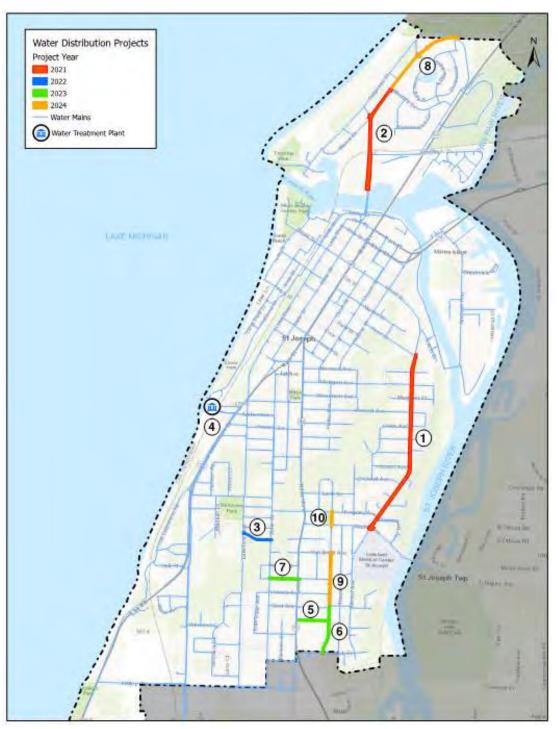


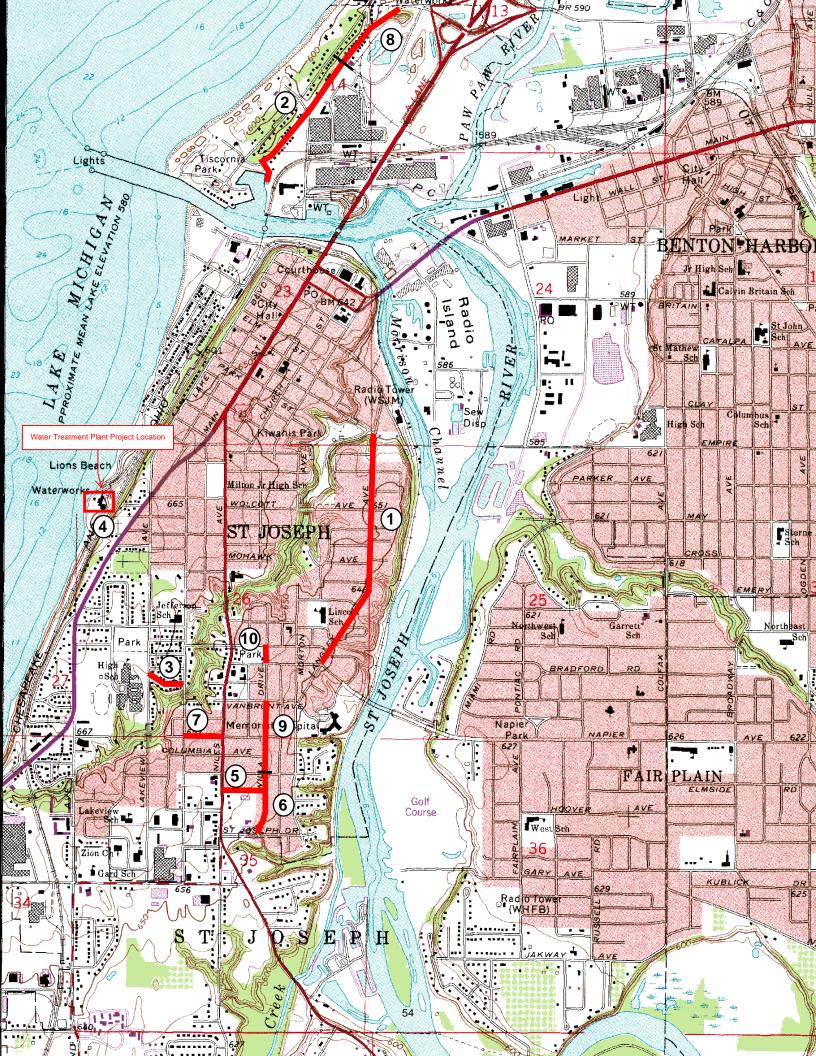


City of Saint Joseph - DWRF Project Plan Attachment for Section 106 Review

I. General Information

Project Locations Map





II. Ground Disturbing Activity

Site	Project	Length	Width	Depth	Previous Land Use	Future Land Use
1	Langley Ave Reconstruction (Napier Ave to Pearl St)	4600'	40'	12'	Street Right-of-Way	Street Right-of-Way
2	Upton Dr Reconstruction (St. Joseph River to Momany Dr)	2650'	33'	15'	Street Right-of-Way	Street Right-of-Way
3	Donna Dr Reconstruction (Lakeview Ave to S. State St)	710	30	10	Street Right-of-Way	Street Right-of-Way
4	Water Plant Improvements	N/A	N/A	N/A	Municipal Water Plant	Municipal Water Plant
5	Lester Ave Reconstruction (Niles Ave to Willa Dr)	790'	40'	10'	Street Right-of-Way	Street Right-of-Way
6	Willa Dr Reconstruction (St. Joseph Drive to Highland Ave)	1109'	30'	10'	Street Right-of-Way	Street Right-of-Way
7	Botham Ave Water Main Replacement (S. State St to Niles Ave)	686'	30'	12'	Street Right-of-Way	Street Right-of-Way
8	Upton Dr Reconstruction (Momany Dr to N. City Limits)	2015'	30'	6.5'	Street Right-of-Way	Street Right-of-Way
9	Willa Dr Reconstruction (Highland Ave to Van Brunt Ave)	686'	30'	11.5'	Street Right-of-Way	Street Right-of-Way
10	Willa Dr. Water Main Installation (Napier Ave to Kingsley Ave)	333'	40'	11.5'	Street Right-of-Way	Street Right-of-Way

Project Location: City of Saint Joseph, Berrien County

Township 04S, Range 19W, Section 13, Section 14, Section 23, Section 24, Section

26 and Section 35.



III. Project Work Description & Area of Potential Effects (APE)

Site	Description
1	Reconstruction of existing water, sanitary, and storm water infrastructure as well as roadway and sidewalks on Langley Ave from Napier Ave to Pearl St.
2	Reconstruction of existing water, sanitary, and storm water infrastructure as well as roadway and sidewalks on Upton Dr. from The Saint Joseph River to Momany Dr.
3	Reconstruction of existing water, sanitary, and storm water infrastructure as well as roadway and sidewalks on Donna Dr. from Lakeview Ave to S. State St.
4	Clarifier improvements, HVAC upgrades, architectural improvements, lab Improvements, and lift pump station upgrades
5	Reconstruction of existing water, sanitary, and storm water infrastructure as well as roadway and sidewalks on Lester Ave from Niles Ave to Willa Dr.
6	Reconstruction of existing water, sanitary, and storm water infrastructure as well as roadway and sidewalks on Willa Dr. from St. Joseph Dr. to Highland Ave.
7	Reconstruction of existing water, sanitary, and storm water infrastructure as well as roadway and sidewalks on Botham Ave from S. State St to Niles Ave
8	Reconstruction of existing water, sanitary, and storm water infrastructure as well as roadway and sidewalks on Upton Dr. from Momany Dr. to North City Limits
9	Reconstruction of existing water, sanitary, and storm water infrastructure as well as roadway and sidewalks on Willa Dr. from Highland Ave to Van Brunt Ave.
10	Reconstruction of existing water, sanitary, and storm water infrastructure as well as roadway and sidewalks on Willa Dr. from Napier Ave to Kingsley Ave.

All street projects are being constructed to replace infrastructure similar to existing. Existing lead service lines will be replaced with copper in accordance with the Michigan Lead Copper Rule. Each APE is limited to the right of way and permitted easements on private property. No changes are anticipated that would alter the character or use of the historic built environment on or adjacent to the street. The impacts to properties will not be physical in nature. Visually, the roadways will be replaced as roadways to avoid any detrimental change to the aesthetics of the area. Similarly, improvements made to the water plant will not alter the character or use of the property or area and the APE is limited to the municipal owned property surrounding the structures.



Site 1.



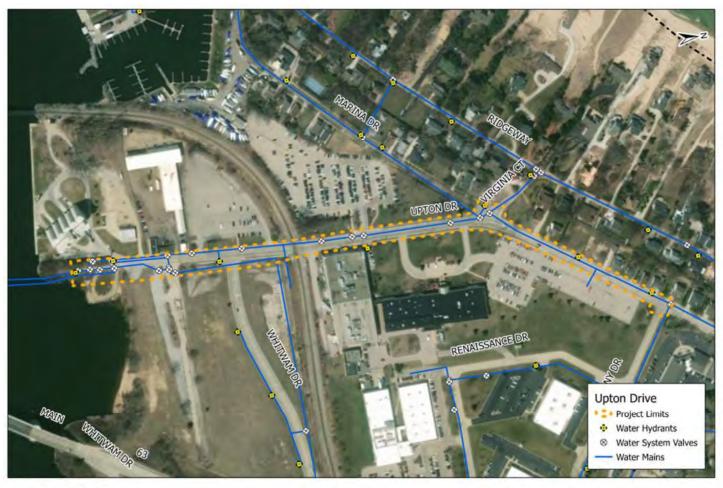


Location of Water System Improvements on Langley Ave

Scale: 1" = 500'



Site 2.





Location of Water System Improvements on Upton Dr

Scale: 1" = 300'



Site 3.





Location of Water System Improvements on Donna Dr

Scale: 1" = 100'

DRAWN BY: AKA DATE: 4/17/2020



Site 4.





Location of Water System Improvements at The City of St. Joseph Water Filtration Plant

Scale: 1" = 200'

DRAWN BY: AKA DATE: 4/23/2020



Sites 5 & 6





Location of Water System Improvements on Willa Dr and Lester Ave

Scale: 1" = 200'

DRAWN BY: AKA DATE: 4/17/2020



Site 7.



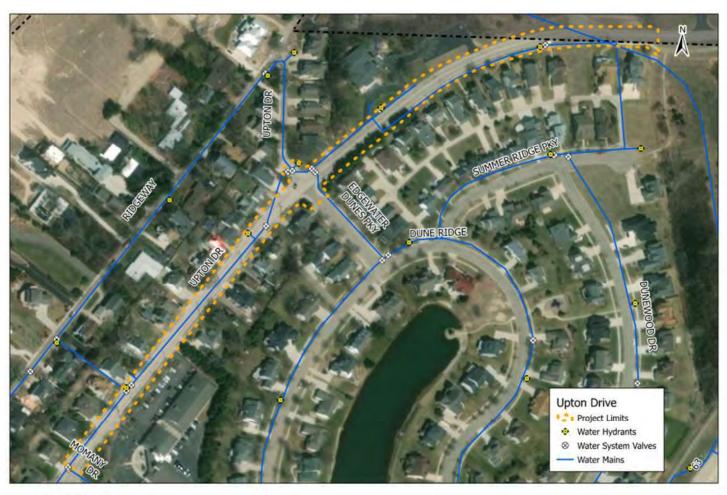


Location of Water System Improvements on Botham Ave

Scale: 1" = 100'



Site 8.



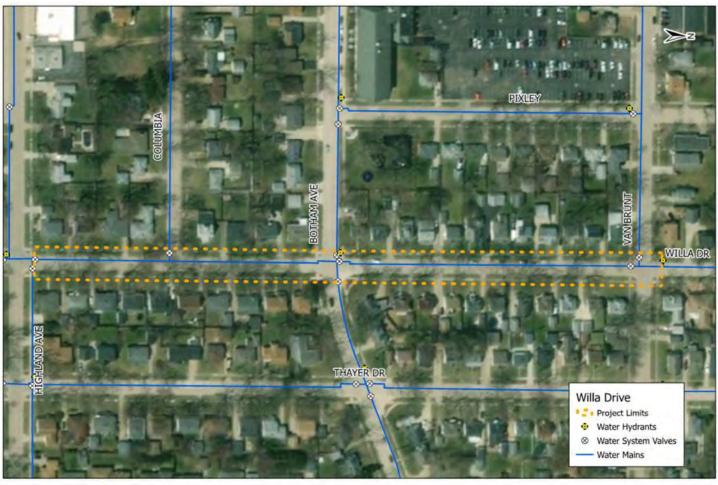


Location of Water System Improvements on Upton Dr

Scale: 1" = 200'



Site 9.



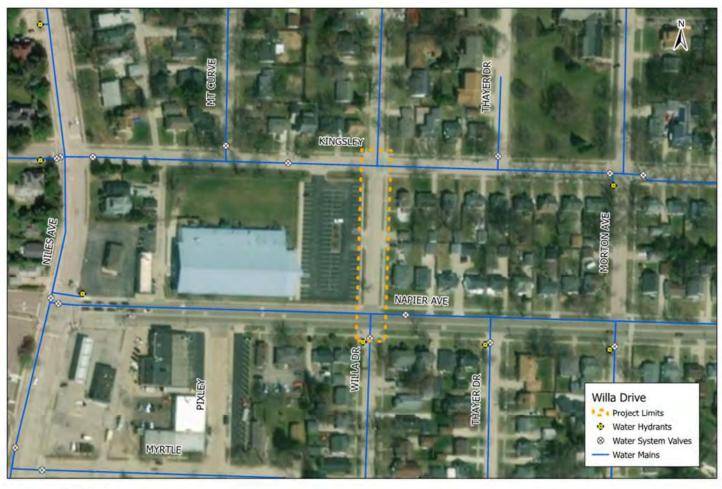


Location of Water System Improvements on Willa Dr

Scale: 1" = 150'



Site 10.





Location of Water System Improvements on Willa Dr

Scale: 1" = 150'



IV. Identification of Historic Properties

No historic properties are located within any of the APE's. The Saint Joseph Water Plant was originally constructed over 50 years ago. It has since had upgrades and additions. The work proposed at the plant includes operational equipment and architectural improvements and should not impact the historic nature of the building. The original building is not considered historically important.

V. Photographs

Photo 1: 387 Upton Dr. // Whirlpool Tech Center



Photo credit: Google Street View



Photo 2: 3811 Niles Ave // Tux Shop



Photo credit: Google Street View

Photo 3: 815 Lester Ave. // Materials Resources



Photo credit: Google Street View



VI. Basis For Determination

No historic properties were identified within the projects' APE's. No changes are anticipated that would alter the character or use of the historic built environment on or adjacent to the street projects. The roadway alignments will remain unchanged in the horizontal direction with minor vertical revisions to address drainage issues, driveway grades, and federal Americans with Disabilities Act (ADA) compliance. There will be a temporary disturbance due to construction noise throughout the duration of the project. These audible disturbances will subside upon construction completion. Visually, the roadways will be replaced as roadways so there should not be any detrimental change to the aesthetics of the area. Similarly, improvements made to the water plant will not alter the character or use of the property or area.





May 6, 2020

Ms. JoAnne Cook, THPO
Match-e-be-nash-she-wish (Gun Lake) Band of Pottawatomi Indians
Gun Lake Tribe Administration
2872 Mission Dr. Shelbyville, MI 49344
JoAnne.Cook@glt-nsn.gov

Re: City of Saint Joseph – Michigan Drinking Water and State Revolving Loan Fund

Section 106 Review

Dear Ms. Cook,

The City of Saint Joseph has prepared a planning report for application to The Department of Environment, Great Lakes and Energy, Drinking Water State Revolving Fund, starting in fiscal year 2021 to fund water infrastructure improvements in several locations around the city and improvements to the Water Plant.

The proposed work consists of replacing the existing water, sanitary, and storm sewer mains and related infrastructure including the roadway and sidewalks. Also, improvements are proposed at the existing Water Plant including clarifier improvements, HVAC upgrades, architectural improvements, lab improvements, and lift pump station upgrades. All work is expected to be within existing road right-of-ways or already developed property. We believe that the project areas have been so extensively modified by modern development that there is little likelihood that the proposed project will impact undisturbed historic or Tribal property.

This notice and opportunity to comment is being sent to you to fulfill Section 106 of the National Historic Preservation Act review process, which requires a federal agency or applicant to consult with THPOs and federally recognized Indian tribes. The purpose of this notice is to give you an opportunity to have your interests and concerns considered. Should you have any comments on potential impacts to known religious and/or culturally significant properties in the area of the proposed project, please provide them to us within 30 days of this notice.

Project Location: City of Saint Joseph, Berrien County

Township 04S, Range 19W, Section 13, Section 14, Section 23, Section 24, Section

26 and Section 35.

Enclosed is a project map for your reference.

Sincerely, ABONMARCHE



May 6, 2020

Earl Meshigaud Hannahville Indian Community N-14911 Hannahville B1 Rd. Wilson, MI 49896 earlmeshigaud@hannahville.org

Re: City of Saint Joseph – Michigan Drinking Water and State Revolving Loan Fund

Section 106 Review

Dear Mr. Meshigaud,

The City of Saint Joseph has prepared a planning report for application to The Department of Environment, Great Lakes and Energy, Drinking Water State Revolving Fund, starting in fiscal year 2021 to fund water infrastructure improvements in several locations around the city and improvements to the Water Plant.

The proposed work consists of replacing the existing water, sanitary, and storm sewer mains and related infrastructure including the roadway and sidewalks. Also, improvements are proposed at the existing Water Plant including clarifier improvements, HVAC upgrades, architectural improvements, lab improvements, and lift pump station upgrades. All work is expected to be within existing road right-of-ways or already developed property. We believe that the project areas have been so extensively modified by modern development that there is little likelihood that the proposed project will impact undisturbed historic or Tribal property.

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Project Location: City of Saint Joseph, Berrien County

Township 04S, Range 19W, Section 13, Section 14, Section 23, Section 24, Section

26 and Section 35.

Enclosed is a project map for your reference.

Sincerely, ABONMARCHE



May 6, 2020

Matthew J.N. Bussler, THPO/GIS Specialist
Department of Housing & Community Development
57824 E. Potawatomi Rd.
P.O. Box 180
Dowagiac, MI 49047
matthew.bussler@pokagonband-nsn.gov

Re: City of Saint Joseph – Michigan Drinking Water and State Revolving Loan Fund

Section 106 Review

Dear Mr. Bussler,

The City of Saint Joseph has prepared a planning report for application to The Department of Environment, Great Lakes and Energy, Drinking Water State Revolving Fund, starting in fiscal year 2021 to fund water infrastructure improvements in several locations around the city and improvements to the Water Plant.

The proposed work consists of replacing the existing water, sanitary, and storm sewer mains and related infrastructure including the roadway and sidewalks. Also, improvements are proposed at the existing Water Plant including clarifier improvements, HVAC upgrades, architectural improvements, lab improvements, and lift pump station upgrades. All work is expected to be within existing road right-of-ways or already developed property. We believe that the project areas have been so extensively modified by modern development that there is little likelihood that the proposed project will impact undisturbed historic or Tribal property.

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Project Location: City of Saint Joseph, Berrien County

Township 04S, Range 19W, Section 13, Section 14, Section 23, Section 24, Section

26 and Section 35.

Enclosed is a project map for your reference.

Sincerely, ABONMARCHE



May 6, 2020

Jonnie J. Sam, Director Little River Band of Ottawa Indians 2608 Government Center Dr. Manistee, MI 49660 jsam@lrboi.com

Re: City of Saint Joseph – Michigan Drinking Water and State Revolving Loan Fund

Section 106 Review

Dear Mr. Sam.

The City of Saint Joseph has prepared a planning report for application to The Department of Environment, Great Lakes and Energy, Drinking Water State Revolving Fund, starting in fiscal year 2021 to fund water infrastructure improvements in several locations around the city and improvements to the Water Plant.

The proposed work consists of replacing the existing water, sanitary, and storm sewer mains and related infrastructure including the roadway and sidewalks. Also, improvements are proposed at the existing Water Plant including clarifier improvements, HVAC upgrades, architectural improvements, lab improvements, and lift pump station upgrades. All work is expected to be within existing road right-of-ways or already developed property. We believe that the project areas have been so extensively modified by modern development that there is little likelihood that the proposed project will impact undisturbed historic or Tribal property.

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Project Location: City of Saint Joseph, Berrien County

Township 04S, Range 19W, Section 13, Section 14, Section 23, Section 24, Section

26 and Section 35.

Enclosed is a project map for your reference.

Sincerely, ABONMARCHE



Engineering • Architecture • Land Surveying

May 6, 2020

Fred Jacko, Jr., THPO Nottawaseppi Huron Band of the Potawatomi 1485 Mno-Bmadzewen Way Fulton, MI 49052 fred.jacko@nhbpi.com

Re: City of Saint Joseph – Michigan Drinking Water and State Revolving Loan Fund

Section 106 Review

Dear Mr. Jacko.

The City of Saint Joseph has prepared a planning report for application to The Department of Environment, Great Lakes and Energy, Drinking Water State Revolving Fund, starting in fiscal year 2021 to fund water infrastructure improvements in several locations around the city and improvements to the Water Plant.

The proposed work consists of replacing the existing water, sanitary, and storm sewer mains and related infrastructure including the roadway and sidewalks. Also, improvements are proposed at the existing Water Plant including clarifier improvements, HVAC upgrades, architectural improvements, lab improvements, and lift pump station upgrades. All work is expected to be within existing road right-of-ways or already developed property. We believe that the project areas have been so extensively modified by modern development that there is little likelihood that the proposed project will impact undisturbed historic or Tribal property.

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Project Location: City of Saint Joseph, Berrien County

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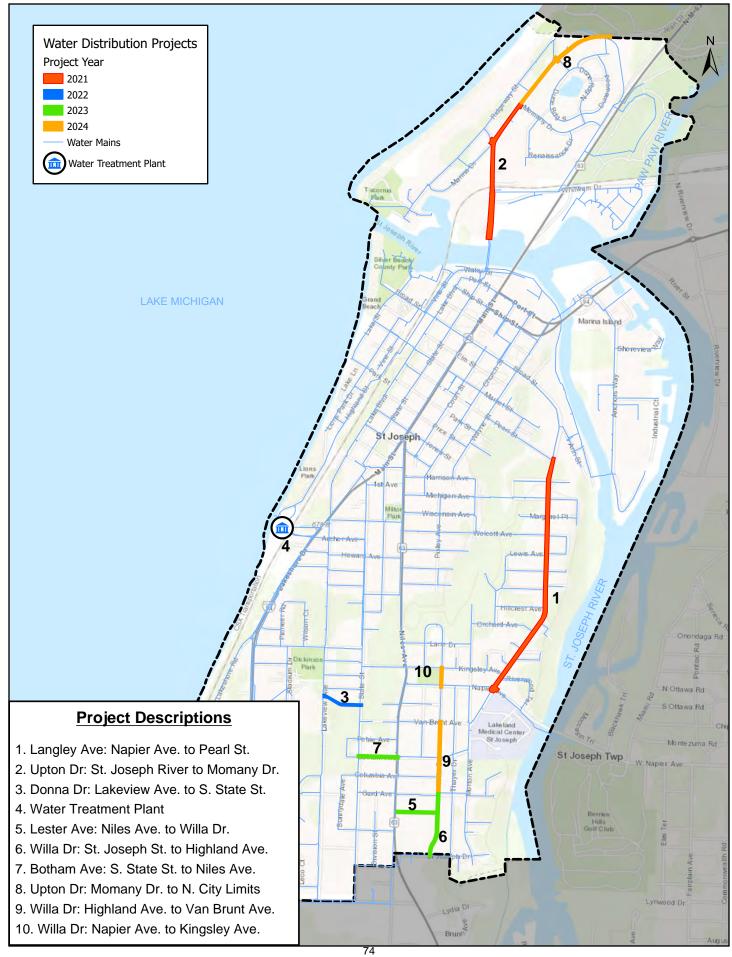
26 and Section 35.

Enclosed is a project map for your reference.

Sincerely, ABONMARCHE

Jon Greco Staff Engineer jgreco@abonmarche.com





APPENDIX G

SELF-CERTIFICATION CHECKLIST



SRF DWRF NPS Applicant Self-Certification Forms (Rev. Draft 16 Jan 2019)

APPLICANT INSTRUCTIONS FOR SECTIONS "A" and "B"

- Use streamlined checklists A & B below during and after the pre-application meeting to help determine which project planning elements are most relevant for developing a Project Application Narrative (PAN). The PAN proposed for pilot testing will be a streamlined version of the SRF-DWRF Project Plan. Refer to the Project Plan Preparation Guidance and Applicant Actions for details.
- The PAN is an Executive Summary-style planning document to be submitted with all new or amended projects in lieu of an SRF-DWRF Project Plan. For editorial consistency in this test of streamlining, the PAN will provide a ten-point table of contents described elsewhere in another guidance document.
- Important: All planning elements in "A" and "B" must be considered for all projects, and all boxes must be marked, thereby attesting to the applicant's completion of a comprehensive planning process. To streamline the narrative portion of the application, only the minimally required and most relevant elements must be described in the PAN (streamlined project plan).
- After considering <u>each</u> element, circle the appropriate box to indicate either: "Yes, the project is likely to involve or likely to impact" (Yes); or

"No, the project is not likely to involve or not likely to impact" (No). Include "NA" if it is neither relevant nor applicable to the proposed project (NA).

- "REQUIRED FOR ALL" means the element must be considered <u>and also</u> briefly described in the narrative portion of the streamlined PAN, even if the statement is "no impact." Additional information can be attached or incorporated by reference. Add a check mark to confirm completion of this step.
- If a project involves multiple sub-projects or contracts with different characteristics and different answers for certain boxes, add clarifying comments, notes, or additional pages.
- In addition to the required Act 399 (water) or Part 41 (wastewater) construction permits, any other permits likely to be required prior to construction must be identified in Section "B".
- Submit the completed, signed self-certification forms "A" and "B" with the streamlined PAN document. .

A. Purpose and Alternatives Analysis including Cost and Effectiveness PROJECT NO. 7486-01

Project Need and Eligibility (identify problems, NOT the project to be constructed) REQUIRED FOR ALL	Protection of Public Health and the Environment REQUIRED FOR ALL	Removal of Lead Service Pipes in Water Systems (DWRF only) Yes No NA	Public Information and Education REQUIRED FOR ALL
Existing Facilities (only as relevant to proposed project) REQUIRED FOR ALL	Compliance Violation, Enforcement Action, or Related Concerns Yes No NA	Alternatives: Option to optimize performance and improve operation and maintenance REQUIRED FOR ALL	Alternatives: Facility Regionalization / Coordination with Regional Planning Agencies REQUIRED FOR ALL

Comparative "Cost and effectiveness" of Feasible Alternatives, processes, materials, techniques, and technologies • REQUIRED FOR ALL This checkbox satisfies the USEPA requirement	Comparative non- monetary analysis of Feasible Alternatives (environmental, operational, other) REQUIRED FOR ALL	Financial, legal, institutional, managerial, social, or other community considerations impacting planning analysis REQUIRED FOR ALL	Enviro-Topographical- Geographical Constraints / Constructability concerns (e.g, poor soils, steep slopes) Yes No NA
Alternative Facility Locations or Pipe Routings Yes No NA	CSO separation or system upgrades (SRF only) Yes No NA	Structural Integrity PACP/MACP (SRF only) Yes No NA	Reduction of excessive infiltration and inflow (SRF only) Yes No NA
Water / Wastewater Pretreatment requirements Yes No NA	Pretreatment equirements Construction Geotechnical-Hydrogeological-Biological-Tree Survey, etc (please identify)		
Green Infrastruct / Energy-water-wastewat recovery (USEPA Gr / Alternative or int Yes	r conservation or resource and Practices, including coordinated construction (water, sanitary, storm, transportation)		
		Planning consideration of operational impacts to downstream processes, e.g., WTP or WWTP discharges, mgmt and disposal of spent filters, mgmt and disposal of sludges & other treatment residuals, etc. Yes No NA	
Description of Selected Alternative (the project to be constructed) REQUIRED FOR ALL	User Impacts, Affordability, Disadvantaged Community, Environmental Justice REQUIRED FOR ALL	Eligibility, construction schedule, and project delivery considerations (e.g., ineligible components, contracting method, project phasing or segmenting, other funding sources) REQUIRED FOR ALL	
DOCUMENTS INCORPORATED BY REFERENCE AND/OR SUBMITTED IN LIEU (CIRCLE AS APPROPRIATE)			
USDA-RD Preliminary Engineering Report & Enviro Review SSES (SRF only) I/I Study (SRF only) PACP/MACP/NASSCO Report AMP CIP Basis of Design Geotechnical-Hydrogeological-Biological-Tree Survey Environmental Assessment Report Watershed Management Plan Master Plan Compliance Documents (letters, ACO, LTCAP, permit schedule, DCA, other - please specify) Water Reliability Study (DWRF only) Sanitary Survey (DWRF only) SWPP (DWRF only), Symposia/Workshop Findings Engineering Proposal Rate Study Existing Permit Other			
Applicant Comments (attach additional page if necessary)			
MDEQ Reviewer Comments (attach additional page if necessary)			

B. Environmental Preview / Review (NEPA-Like) and Useful Life Analysis PROJECT NO. _

SHPO: Archeo-Histor- Cultural LETTERS SENT, REQUIRED FOR ALL	THPO: Tribal C LETTERS SENT, REQUIRED FOR ALL	Protected Plants and Animals (Endangered- Threatened) USFWS/MNFI Yes No NA	Protected or Important Habitats (including Trees) Yes No NA
Floodplain Impacts and/or Permit Yes No NA	Wetlands Impacts and/or Permit Yes No NA	Inland Lakes & Streams Impacts and/or Permit Yes No NA	Airspace and Airports Yes No NA
Soil Erosion and Sedimentation and/or Permit Yes No NA	Construction Storm Water Permit, Storm Water Discharge Permit Yes No NA	Great Lakes Coastal Zone and related (Shorelands, Sand Dunes, Submerged Lands, etc) and/or Permit Yes NO NA	Wild, Scenic and Natural Rivers / National Natural Landmarks / Farmland Preservation Yes No NA
Air Quality (beyond temporary construction) Yes No NA	Water or Wastewater Facility NPDES Discharge Permit (New or Modified) Yes No NA	Other permits anticipated for water-wells, roads, buildings, local health dept, lagoon berm, etc (please identify) Yes NO NA	
Public Lands, Recreational Areas, Scenic Areas, Beauty Roads, Open Space, etc Yes No NA	Noise-Sensitive or Security-Sensitive Zones (e.g., hospitals, schools, apartments) Yes No NA	USEFUL LIFE ANALYSIS (SRF ONLY) This checkbox satisfies the USEPA requirement The Useful Design Life of the project or activity is years. For projects with multiple subcomponents, see XYZ for determining the Useful Life.	
Applicant Comments (atta	I ch additional page if nece	I essary)	
MDEQ Reviewer Comment	ts (attach additional page	if necessary)	

APPLICANT CERTIFICATION (Please print or type)

I certify that all the above-referenced planning requirements Pages 1-3 have been considered, including the environmental preview, and including additional planning elements where relevant and applicable to the proposed project.

Name of Professional Engineer Jason W. Marquardt, PE	
Signature of Professional Engineer 9- v 1	Date06/22/20
Name of Authorized RepresentativeTim_Zebell, P.E.	
Title of Authorized Representative City Engineer	
Signature of Authorized Representative	Date 06/23/2020

MDEQ Review (attach existing May 1/July 1 Screening checklist until Rules / Law are amended)

I certify that I have completed a thorough review of the above-referenced proposed SRF/DWRF loan project, using steps consistent with the long-established State Environmental Review Process and associated historical and recent guidance documents.

Date of PAN Screening Review	
Name of Reviewer	
More Info Needed? Y / N	
Preliminary Tier 1 - 2 - 3	
Approve for Initial PPL? Y / N	

APPENDIX H

PUBLIC HEARING DOCUMENTS

(NOTICE OF PUBLIC HEARING)
(TRANSCRIPT OF PUBLIC HEARING)
(ATTENDEES)



AFFP
NOTICE OF PUBLIC HEARING The

JUN 1 5 2020 ABONWARCHE

Affidavit of Publication

STATE OF MICHIGAN }
COUNTY OF BERRIEN }

SS

Courtney Kruger, being duly sworn, says:

That she is Legal Clerk of the Herald Palladium, a Dally newspaper of general circulation, printed and published in St Joseph, Berrien County, Michigan; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

May 07, 2020

Publisher's Fee:

\$ 348,50

That said newspaper was regularly Issued and circulated on those dates.

SIGNED:

Subscribed to and sworn to me this 7th day of May 2020.

NOTICE OF PUBLIC HEARING

The City of St. Joseph will hold a public hearing on the proposed Drinking Water State Revolving Fund (DWSRF) Project Plan for the purpose of receiving comments from interested persons.

The hearing will be held at 6:00 p.m. on Monday, June 8th, 2020 at the regular City Commission Meeting at St. Joseph City Hall – Commission Chambers, 700 Broad Street, St. Joseph, Michigan. The purpose of the proposed project is to replace Lead Water Services, make improvements to the water distribution system, and construct additional improvements to the water treatment plant.

Lead service line replacements are intended to be completed throughout the city. Distribution system improvements include replacement of water main and water service lines on Langley Avenue, Upton Drive, Donna Drive, Willa Drive, Lester Avenue, and Botham Avenue. Water Plant improvements include Clarifler improvements, HVAC upgrades, Lab and Architectural improvements, and South Low Lift Pump Station upgrades.

Assistance in funding for the project will be solicited from the Michigan Department of Environment, Great Lakes, and Energy Drinking Water State Revolving Loan Fund. Over the 5 years included in the plan, the amount eligible for the loan is \$21.1 million and the total estimated cost to users for the proposed project is expected to be up to \$30.2 million.

Impacts of the proposed project include construction related road closures, detours, sidewalk closures, tree removal, and construction dust. Temporary shutoffs to the water system and some individual water services are also expected during this work. Electronic copies of the plan detailing the proposed project are available for review at the following websites:

www.sjcity.com

www.abonmarche.com

Written comments received before the hearing record is closed on June 15, 2020 will receive responses in the final project plan. Written comments should be sent to Jason W. Marquardt, P.E., Abonmarche Consultants, Inc., 95 W. Main Street, Benton Harbor, MI 49022. By email to jmarquardt@abonmarche.com.

The hearing site is accessible including hearding parking. People with disabilities.

The hearing site is accessible, including handicap parking. People with disabilities requiring additional accommodations in order to participate in the hearing should contact City Hall at (269) 983-5541 at least 7 days prior to the hearing date. Information at this meeting will be presented by speakers.

Carlena Songer, Notary Public 4/10/2024

CARLENA SONGER

Notary Public
La Porte County, State of Indiana
Commission Espires April 10, 2024

60000150 61125687 269-985-0347

City Clerk CITY OF ST JOSEPH 700 BROAD STREET ST. JOSEPH, MI 49085

1	
2	ST. JOSEPH CITY COMMISSION HEARING
3	
4	
5	
6	
7	Virtual Public Hearing before the Public for
8	the St. Joseph City Commission, on June 8, 2020, at 6:00
9	p.m., before Ms. Dawn M. Houghton, (attending
10	telephonically), Michigan License CSR-3071, RPR, Illinois
11	License 084.004881.
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1	MAYOR MICHAEL GAREY: Thank you. Questions or
2	comments? Denise, call the role.
3	DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
4	Goos?
5	MAYOR PRO TEM LAURA GOOS: Yes.
6	DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
7	Richards?
8	COMMISSIONER JEFFREY RICHARDS: Yes.
9	DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
10	Todman?
11	COMMISSIONER DR. LYNN TODMAN: Yes.
12	DEPUTY CITY CLERK DENISE WESTFALL: Mayor Garey?
13	MAYOR MICHAEL GAREY: Yes.
14	DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
15	Getty?
16	COMMISSIONER PEGGY GETTY: Yes.
17	MAYOR MICHAEL GAREY: All right. Under New
18	Business, we have the Public Hearing Resolution, the 2020
19	DWSRF Project Plan. I know we have Jason Marquardt here from
20	Abonmarche, I believe, but I don't know if, Tom MacDonald, if
21	you weigh in on this also, or is that going to be Tim?
22	MR. TIM ZEBELL: We need to do this. We basically
23	have to hold the public hearing in order to comply with the
24	requirements of the Drinking Water State Revolving Fund
25	submittal, so this requirement is there. We actually did a

DWSR -- or they called it a DWFR, sorry, a DWRF back then.

They've added an additional initial now.

2.0

But in 2016, we basically had a plan, and because we've added lead service line replacement, we need to do essentially a new plan. So a lot of this has come before the commissioner -- the commission in the past. It's the lead service line replacements. It's kind of a new thing that is in this project plan that we need to go through the full public hearing process for.

MAYOR MICHAEL GAREY: Okay. Thank you. So at this time, open to public hearing on the matter, and if anyone has any comments or thoughts on the matter, please state your name and address for the record. So we're going to open the public hearing. John, do we have anyone with questions?

MR. TIM ZEBELL: Generally what we'll do is we have to cover a minimum amount of information, and Jason has a PowerPoint, so he's going to cover 7 to 10 slides, I believe he has.

Some of this stuff might be a little dry, but we have to cover that to meet the requirements of the program.

And we want to do this because it's a low-interest loan.

It's the best rates we'll get. And like this year on -- for lead service line replacements, they're offering principal forgiveness, so we're actually getting 10 percent back, if you will, on all the costs associated with the lead service

line replacements that we don't have to pay. 1 2 MAYOR MICHAEL GAREY: Thank you. Good evening, 3 Jason. 4 MR. JASON MARQUARDT: Can everybody see my screen? 5 MAYOR MICHAEL GAREY: Yes. 6 MR. JASON MARQUARDT: Thanks, Tim, for the Okay. 7 lead-in. My name is Jason Marquardt. I'm with Abonmarche, been working with Tim and Tom putting this DWSRF project plan 8 9 together, just like Tim kind of led into, so this is our 10 presentation. 11 A little bit of introduction. The city has applied for these loans in the past, so this is the process to, you 12 know, to apply for -- for new loans. This would be an 13 14 application for low-interest loans through EGLE programs, the 15 Department of Environment, Great Lakes and Energy. 16 This loan will help fund the Phase 2 water 17 treatment plant projects which had been updated since the previous plans, distribution system projects that have been 18 19 slightly updated, and then, like Tim said, the new lead 2.0 service replacements. 21 Once the project plan is finalized and sent to the 22 State, projects usually are selected by date, based on the 23 priority, and to maximize available financing. 24 Background, like Tim mentioned as well, the city

has done three previous studies since 2016, so this new plan

25

is kind of a combination of all three plans. EGLE has allowed a streamlined process now to apply -- when applying for funding if -- if projects haven't changed much since the previous plan.

2.0

The plans that were referenced, that will be referenced in this project plan update are the asset management plan, the water system reliability study, and the strategic capital improvement plan. Once finalized assets—The assets in the plan were scored based on probability of failure, the age and condition. That would be your water mains and your equipment at the water treatment plant and if they have any consequential failure. In these plans, the needs have been identified, and now the city can seek funding to assist with the implementation of these projects.

The need for the project, so the distribution systems do have, you know, aging and undersized water mains throughout the city that's been identified in some of the previous project plans. That leads to sometimes inadequate water pressure and poor water quality. Older mains do have histories of breaks that require maintenance, also water leaks from the system that -- that costs the system dollars.

For the water treatment plant itself, there's limited plant capacity with the clarifiers currently, so the new plant would provide some redundancy. Some dehumidification is needed to eliminate moisture issues at

the plant. The plant has some inadequate meeting spaces and structural issues on the -- in the walls and roof, and then also the South Low Lift Pump Station will have electrical improvements as part of this plan.

2.0

The biggest thing is the Lead and Copper Rule, that's been updated. Many of you have probably listened to quite a bit of updates on that Lead and Copper Rule, but now with the -- with the revisions, the new lead action levels have been identified during testing and sampling. It also requires the city or municipality to prepare a distribution system materials inventory, which the city had completed at the end of last year.

When -- when it comes to its actual replacement of the lead service lines now, they've changed the requirements. Partial lead service line replacement is no longer allowed except in the case of emergency repair, and even when you do make the repair, you have 72 hours to -- to replace it, the entire line.

Water supplies with lead service lines, regardless
-- regardless of your lead action levels when you do testing,
must replace all lead service lines at an average rate of
five -- five percent per year, not to exceed 20 years, so
that means that municipalities with lead service lines will
be required to change those out over the next 20 years.

The full lead service line must be replaced at the

water city -- or the water supplier's expense regardless of ownership. All the projects that we've done in the past replaced the water service from the main to the -- to the shutoff within the right-of-way. This will require full lead service replacement through the house or property to the meter.

2.0

The distribution projects as listed on the plan are shown on this five-year. We have -- we had identified projects from 2021 through 2024. The 2021 project includes the Langley Avenue project, and we noted Upton Drive here; 2022 would be the water treatment plant improvements and Donna Drive; 2023 would be the Botham section and Lester Avenue and Willa Drive; and then 2024 would be the remaining Willa Drive on Phase 2, if you will.

For the lead service line replacement, though, you have lines throughout the entire system. Right now, there's estimated 3,850 residential water services. Of that, there's been an estimate of 70 percent contain lead in some form that will need replacement over the next 20 years.

Our current plan of the city's strategy was to replace 150 lead services each year for the next 20 years, and they've prioritized locations of these lead service replacements. Instead of just going through the whole system entirely as a whole and replacing stuff, there's been this strategy and these priorities, and Priority 1 would be the

lead service line replacements as part of the upcoming reconstruction projects for 2021 and 2022, so that -- that would include a project like Langley. So we would get -- you would get in earlier than the actual construction of the project and replace the -- the lead service lines to allow a more seamless transition when the actual contractor gets on the site to do that -- do that work, which would limit them to potentially just working with inside -- inside the right-of-way.

2.0

Priority 2 would be any water alert services that leak or need to be replaced as part of water main breaks as they arise. So that would be annually. So if -- if there's a leak in the system and it's uncovered and they notice that the lead service is in close proximity, that would be replaced at the time of the excavation.

Priority 3 would be lead services that test high for lead as they come up through the city's testing program, and that would be done annually. Priority 4 would be any future projects listed in those previous plans, so kind of getting ahead of -- of this lead service replacements so that the construction of the project can -- can happen without as much impact to the water service replacements.

And Priority 5 would be any galvanized services previously connected to lead. So over the last 20 years, there's been a lot of water main projects in the city, and

the -- the service line would be replaced from the new main to new -- from the new water main to the shutoff and connect to the existing property owner's service. Priority 5 would replace those.

2.0

So a project like Botham Avenue that was done in 2015 would be like a Priority 5 project. And additionally, those may have to be replaced, but it's set at Priority 5 because we have some other needs first.

So the lead service replacements, as you can see, this graphic is very similar to the distribution improvement map. Really what it shows is, you know, Priority 1, like I just mentioned, would occur on Upton Drive and Langley Avenue, getting ahead of any projects that -- that would occur on those streets.

Priority 4 would be any -- any -- any replacements listed there in blue that -- that would get ahead of those capital improvement projects. And then we listed them by year, I guess, so the green would be -- oh, I'm sorry, Priority 5 would be Botham Avenue, like I mentioned. That project was done in -- in 2015. So that would be the galvanized services if -- if the Priority 5 services was replaced.

We did mention, you know, Priority 2 and Priority 3 in the bottom left. You know, those are system-wide. That can happen -- those can happen anywhere throughout the system

depending on if a water service or a water main has -- has a leak in the system that requires maintenance, or if a -- if some sampling comes back that's -- that's tested high for lead, those would be Priority 2 and Priority 3 replacements.

2.0

Kind of give you a snapshot of -- of what would be going -- would be occurring, you know, for each -- each one of these years, we've placed that in the table here. So like for 2021, you know, 108 would be water service for reconstruction projects similar to, you know, projects such as Langley. And then you would have 25 each for any leaking or broken water main services or any that test high for lead, just to kind of give you a snapshot of what we're telling the State of how this money or how this money would potentially be spent on water service replacements.

As you can see there, that's the, you know, 150 a year for the next five years, you know, total is about -- totals to about 900,000 in construction costs and just over a million in -- in full construction and engineering costs.

As part of the plan, they asked us to look at some alternatives to -- to basically determine what the -- what type of alternative is the most economically and engineering sound choice. And this one, it's kind of interesting because it's lead service replacements.

So we looked at no action -- We looked at three alternatives: No action, partial replacement, and obviously

full lead line replacement. Well, no action was really not considered a feasible option because it would not address the public health risks by water services lines made of lead or galvanized steel, and really it comes down to meeting the requirements of the Lead and Copper Rule.

2.0

Partial replacements of lead service lines, only up to the private property boundaries, so similarly to what we may have done in the past on construction projects are not feasible because the partial replacements is not -- not allowed under the new Michigan Lead and Copper Rule.

So really, the only alternative that -- that's viable here is -- is the full replacement of a lead service line or a lead -- a water service line from the public main to the customers' water meter.

Assessments of pipe materials or different things and different strategies for that have not been used in this analysis but would be addressed during design. Also, I wanted to note the city of St. Joseph policy only allows copper to be used in service lines within the public right-of-way. Therefore, using different type of materials was just not applicable.

Some of the social and environmental impacts and some mitigation measures that we -- we have to list and we have to note is that, well, the benefits for the distribution projects and the -- and the water treatment plant is

increased capacity, improved level of service to users.

2.0

As part of this plan, you could potentially ask for funding for 750 lead service lines to be replaced to remain in compliance with the new lead and copper requirements.

That would -- that would allow you to, you know, replace five percent each year. And also, the distribution projects would improve flows and pressures, with benefits to fire suppression.

The impact/mitigation to users would be some short-term construction impacts, noise, mitigated through some noise barriers, mufflers, limitation of work hours is something that we've done during the construction projects. Dust, we've mitigated that through soil erosion control during construction. Emissions, mitigated that through requirements for air pollution control during construction. And then the obvious big one that a lot of us are associated with during construction is road closures. You know, we manage that through traffic control and detours.

Adverse impacts upon sensitive environmental areas like cutting down trees or -- or things like that, nature, will really be kind of nonexistent, because as -- as most work will take place in the existing road right-of-way and civic facilities, so we don't see many impacts of environmentally sensitive areas.

This is a -- this is a snapshot of what the 2021

immediate project funding would be. With those distribution projects and those lead service line replacements, the total cost in 2021 is 9.9 million. We have estimated that DWSRF eligible costs is just over 4.6 million there. That includes a breakdown on this table of a million, just over a million dollars of lead service replacements for the total cost and the eligible DWSRF costs.

2.0

Langley Avenue has a total project estimate of just over 5.3 million, with a potential of 2.1 million in DWSRF funds. Upton Drive has a total project cost of -- construction cost and project cost of 3.3 million with a potential 1.3 million in DWSRF funds.

And then there's some costs of issuances of the actual DWSRF bonds. The expected debt repayment for 2021 would be 200,000 per year over 30 years for these DWSRF funds.

MAYOR MICHAEL GAREY: Okay.

MR. JASON MARQUARDT: Looking at the entire project in the whole, we listed what we did put in this plan for each of the years after 2021. So summarizing from 2021, you have lead service line replacements and distribution system improvement projects, and it kind of goes each year as -- as each one of these kind of project scope items there, but the total project -- project plan cost, just over 30 million, with a DWSRF eliqible cost of 21 -- just over 21 million.

1	I would note that the water treatment plant	
2	improvements would be, in this plan, stay in 2022, as you can	
3	see kind of in the middle of the screen there. And then just	
4	for for note, for the actual scope items for the water	
5	treatment plant, these these items were were taken from	
6	the previous plans, but this would would total what the	
7	the water treatment plant improvements are. We had some	
8	clarifier improvements identified, some HVAC upgrades, some	
9	architectural improvements, some lab improvements, and then	
10	the South Low Lift Station, electrical improvements that we	
11	mentioned at the very beginning of the of the	
12	presentation. That totals close total 10 million dollars	
13	for those Phase 2 water treatment plant projects.	
14	And do you have any questions?	
15	MAYOR MICHAEL GAREY: Do the commissioners have	
16	questions for Jason on this issue? (No response.)	
17	All right. John, anyone in the audience have any	
18	questions for Jason?	
19	CITY MANAGER JOHN HODGSON: Give it a second.	
20	Nothing at this time.	
21	MAYOR MICHAEL GAREY: Okay. Then accept a motion	
22	to close the public hearing?	
23	COMMISSIONER JEFFREY RICHARDS: So moved.	
24	UNIDENTIFIED COMMISSIONER: Second.	
25	MAYOR MICHAEL GAREY: Question or comments?	

```
Denise, call the role.
 1
 2
               DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
 3
    Richards?
 4
               COMMISSIONER JEFFREY RICHARDS:
                                               Yes.
 5
               DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
 6
     Todman?
 7
               COMMISSIONER DR. LYNN TODMAN:
                                              Yes.
               DEPUTY CITY CLERK DENISE WESTFALL: Mayor Garey?
 8
9
               MAYOR MICHAEL GAREY:
               DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
10
11
     Getty?
12
               COMMISSIONER PEGGY GETTY:
13
               DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
14
     Goos?
15
               MAYOR PRO TEM LAURA GOOS: Yes.
16
               MAYOR MICHAEL GAREY:
                                     Thank you very much. And now
17
    we have, going back now, we had to pass a resolution, John.
18
     I don't have all these up on my screen.
               MAYOR PRO TEM LAURA GOOS: So -- so we need to
19
2.0
     consider a motion to approve the resolution accepting the
2.1
     2020 DWSRF Project Plan. Right?
22
               So I would move that we approve the resolution
23
     adopting the 2020 Drinking Water Revolving Fund Final Project
24
     Plan for water system improvements, and designating the city
25
     finance director and city engineer as authorized project
```

```
representatives for the project.
 1
 2
               COMMISSIONER DR. LYNN TODMAN:
                                              I support.
 3
               MAYOR MICHAEL GAREY: Questions or comments?
 4
    Denise, call the role.
 5
               DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
 6
     Todman?
 7
               COMMISSIONER DR. LYNN TODMAN: Yes.
               DEPUTY CITY CLERK DENISE WESTFALL: Mayor Garey?
 8
9
               MAYOR MICHAEL GAREY: Yes.
               DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
10
11
     Getty?
12
               COMMISSIONER PEGGY GETTY:
               DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
13
14
    Goos?
15
               MAYOR PRO TEM LAURA GOOS: Yes.
16
               DEPUTY CITY CLERK DENISE WESTFALL: Commissioner
17
    Richards?
               COMMISSIONER JEFFREY RICHARDS: Yes.
18
19
               MAYOR MICHAEL GAREY: Thank you. Just before --
2.0
     John, before I go to your comments, is there anyone on-line
2.1
     that has been waiting for -- to make some other point?
22
               CITY MANAGER JOHN HODGSON: I'll give it a moment.
23
    Nothing coming up.
24
               MAYOR MICHAEL GAREY: Okay. I'll turn it over to
25
     John Hodgson, city manager.
```

Public Hearing Attendees

Name
Burwell Carmichael
Dawn Houghton
Erika Trumble
Greg Alimenti
Jack Sanderson
Jeanne Strine
Jon Greco
Julie Swidwa
Mary Sanderson
Michael Gross
Bobert Kruk
Andrew Green
Anne Vandermolen
Deb Deja
Marjorie A. Covey
Tim Zebell
Jason Marquardt
John Hodgson
Denise Westfall
Jeffrey Richards
Chris Cook
Deb Koroch
Greg Grothous
Jeremy Connell
Joan Ross
Kristen Gundersen
Laura Goos
Lauri Schmidt
Lynn Todman
Peggy Getty
Steve Neubecker
Tom MacDonald

APPENDIX I

RESOLUTION OF ADOPTION



PUBLIC HEARING AND RESOLUTION - 2020 DWSRF PROJECT PLAN

A RESOLUTION ADOPTING A FINAL PROJECT PLAN FOR WATER SYSTEM IMPROVEMENTS AND DESIGNATING AN AUTHORIZED PROJECT REPRESENTATIVE

WHEREAS, the City of St. Joseph recognizes the need to make improvements to its existing water treatment and distribution systems; and

WHEREAS, the City of St. Joseph authorized Abonmarche to prepare a Project Plan, which recommends the Water System improvements indicated in Tables 4, 5 and 6 of the DWSRF Project Plan; and

WHEREAS, said Project Plan was presented at a Public Hearing held during a regular meeting of the St. Joseph City Commission on June 8, 2020 and all public comments have been considered and addressed;

NOW THEREFORE BE IT RESOLVED, that the City of St. Joseph formally adopts said Project Plan and agrees to implement the selected alternatives.

BE IT FURTHER RESOLVED, that the Finance Director and City Engineer, positions currently held by Deb Koroch and Tim Zebell, respectively, are designated as authorized representatives for all activities associated with the project referenced above, including the submittal of said Project Plan as the first step in applying to the State of Michigan for a Drinking Water State Revolving Fund Loan to assist in the implementation of the selected alternative.

RESULT: APPROVED [UNANIMOUS]
MOVER: Laura Goos, Mayor Pro Tem
SECONDER: Lynn Todman, Commissioner

AYES: Garey, Richards, Goos, Getty, Todman

STATE OF MICHIGAN)) ss.
COUNTY OF BERRIEN)

I, Denise Westfall, the duly qualified and appointed Clerk of the City of St. Joseph, Berrien County, Michigan do hereby certify that the foregoing is a true and complete copy of action adopted by the City Commission at a meeting held on June 8, 2020 the original of which is on file in my office. Public notice of said meeting was given pursuant to and in compliance with Act No. 267 of the Public Acts of Michigan of 1976, as amended.

IN WITNESS WHEREOF, I have hereunto affixed my signature this June 8, 2020.

Aeniae Westfall, City Clerk,