



# Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield, Illinois • 62794-9276 • 217-782-3397

JB Pritzker, Governor

James Jennings, Acting Director

## REVISED PROJECT SUMMARY AND PRELIMINARY ENVIRONMENTAL IMPACTS DETERMINATION

Date: JAN 1 2026

Loan Applicant: Macomb

Loan Project Number: L174231

To all interested persons:

Section 662.330 of the Illinois Procedures for Issuing Loans from the Public Water Supply Loan Program requires that the Illinois Environmental Protection Agency (Illinois EPA) conduct an assessment of the environmental impacts of proposed public water supply projects to be funded with loans. This review is carried out in conjunction with the State's review of the applicant's project plan.

Prior to final approval of the project plan, the public's comments are sought regarding environmental impacts of the proposed project. Unless new information obtained through the public comment process causes reconsideration, the Agency will approve the project plan at the close of the public comment period.

The applicant will make the attached Project Summary and Preliminary Environmental Impacts Determination (PEID) available for public inspection. After receiving this letter, the loan applicant must conduct a public hearing regarding both the PEID and project planning. Advertisement of the hearing must be made at least 10 days in advance. The advertisement must include the purpose of the project along with the date, time, and location of the hearing. A comment period of at least 10 days shall be provided after the hearing in which written comments may be submitted to the loan applicant or to the Illinois EPA contact person identified in the attached document.

Your participation in this process is appreciated.

Sincerely,

Nidhan Singh, M.B.A.  
State Revolving Fund Manager  
Infrastructure Financial Assistance Section  
Bureau of Water

NS: lc, revised project peid macomb l174231 dw.docx

Attachment

## PROJECT SUMMARY AND ENVIRONMENTAL ASSESSMENT

The following project summary and environmental assessment has been prepared by the Illinois EPA to assist the loan applicant in complying with the public notice requirements. This report is based on information submitted to the Illinois EPA by the City of Macomb. Sources of information include the following documents: City of Macomb 2020 Water Systems Facilities Plan prepared by Maurer-Stutz Engineers/Surveyors dated December 2020, the 2025 Amendment to the 2020 Water System Facilities Plan received on December 11, 2025, and the revised project plan information received by email on both December 17, 2025, and December 18, 2025, from Maurer-Stutz Engineers/Surveyors.

### PART I – PROJECT INFORMATION

**Project Name:** New Water Treatment Plant

**Loan Applicant:** Macomb

**County:** McDonough

**Project Number:** L174231

**Current Population:** 18,352

**Future Population (20 year):** 18,352

**Project Description:** This project will include the construction of four deep wells with submersible pumps/motors and associated pump houses, an administration/treatment building, aerator, carbon absorber odor control system, two 50,000-gallon storage tanks, two 750,000-gallon clearwells, a pre-engineered pump station, storage building that contains a bulk water sale system, and a standby emergency diesel generator at the water plant site. The treatment building will include cartridge filters, bypass line with cartridge filter, four reverse osmosis units, three intermediate pumps, and chemical feed equipment. The project will also include site piping, earthwork, security fencing, paving/drive lanes, and a SCADA/telemetry system to connect the new water treatment plant with the remote well sites and existing elevated storage tanks. The remote well sites will have paving and security fence in addition to the deep wells and associated pump houses. Pump House #6 will have a standby emergency diesel generator. Approximately 250 lineal feet of 8" raw water mains will be installed between the deep wells and their associated pump houses, while approximately 10,000 lineal feet of 12" raw water mains will be installed between the remote pump houses and Well #5 pump house. Well #5 pump house will contain piping and valving to allow for pre-flushing to occur and will contain electrical equipment and chemical feeds for H<sub>2</sub>S Removal. The project will include approximately 3,450 lineal feet of 12" finished water main to connect the pre-engineered pump station with the existing water distribution system in three locations, demolition and abandonment of the existing water treatment plant including deep well, and demolition and abandonment of the lake water related structures near Spring Lake and the two deep wells, and all related miscellaneous appurtenances related to the project.

**Project Location:** The new water treatment facility including Well #5 will be located at 840 S. Ward Street. The other three wells (Well #6, #7, and #8) are located at other remote well sites. See attached map for project locations.

**Project Justification:** The Illinois Environmental Protection Agency (IEPA) has placed Macomb's water system on the Critical Review List due to the lack of a duplicate ClariCone. A report completed by the IEPA in 2016 also identified other issues with the existing WTP. These issues included low volume storage, the need for a parallel transmission main from Spring Lake to the WTP, siltation concerns in Spring Lake, and the potential need for additional finished water storage. The improvements listed above will help resolve all these issues.

**Estimated Construction Start Date:** July 2026

**Estimated Construction Completion Date:** August 2028

**Project Cost Estimate:** \$40,606,506

## **PART II – PROJECT AFFORDABILITY FOR RESIDENTS AND UTILITY CUSTOMERS**

The applicant is proposing to finance the project costs with a loan from the Public Water Supply Control Loan Program (PWSLP). Annual repayments on a PWSLP loan in the amount of \$40,606,506 at an estimated interest rate of 2.16% for a term of twenty (20) years are \$2,502,152.

The loan program rules include provisions for incentives such as reduced interest rates, partial principal forgiveness (a reduction in the amount of principal borrowed that would otherwise have to be repaid), and extended repayment periods for qualifying applicants. The criteria used to determine incentive qualification are found in Sections 662.210 and 662.250 of the Procedures for Issuing Loans from the PWSLP which is available on the Agency's website. The final decision for incentive qualification will be determined at the time a loan agreement is issued using updated Census Bureau and Department of Labor data. The Agency adjusts qualifying criteria annually on July 1<sup>st</sup>.

Using current data, Macomb is eligible to receive a 27-year loan term, 1.62% small community interest rate and partial loan principal forgiveness. Principal forgiveness is not guaranteed until a loan agreement is issued. The final loan and annual repayment amounts will be based on the as-bid project costs, and the loan terms in effect on the date the loan agreement is issued. A rate increase is necessary to repay the loan.

**Source of Loan Repayment:** User rates

**Current Average Monthly Residential Cost of Service:** \$66.50

**Projected Average Monthly Residential Cost of Service:** \$79.58 (increased to this amount after a three-year period)

**Average Monthly Residential Water Use:** 891.31 ft<sup>3</sup> (6667 gallons)

**Number of Customers or Service Connections:** 5551 customers

**How is the monthly residential rate/cost of service calculated?** Water users are billed monthly. A rate increase is proposed over the next three-year period. Currently, Macomb residents pay a flat fee charge of \$5.75 for the first 120 cubic feet (cf), a current debt service charge of \$12.25, and a user rate charge of \$6.29 per unit (100 ft<sup>3</sup>) after 120 cf. Based on an average use of 891.31 ft<sup>3</sup> (6,667 gallons) current monthly charges are:  $\$5.75 + \$12.25 + (\$6.29 \times 7.71) = \$66.50$ . With the final rate increase implemented the monthly charges will be  $\$5.75 + \$25.33 + (\$6.29 \times 7.71) = \$79.58$ .

**Median Household Income (MHI):** \$39,753

**Financial evaluation of the proposed project:** To evaluate the costs of the proposed project for the community, a percentage comparison of the MHI to the average, annual cost for water service is utilized. The MHI listed above is from the current fiscal year's census information. The proposed annual cost for service of \$944.64 is 2.4% of the MHI for the area. The percentage is for comparison only and has no impact on whether a project qualifies for funding from the Illinois EPA. The percentage comparison and MHI are two of several criteria used to determine whether a loan project qualifies for interest rate reductions or principal forgiveness.

## **PART III – ENVIRONMENTAL ISSUES ASSOCIATED WITH THE PROJECT**

**Project construction impacts:** Temporary adverse environmental impacts such as construction-associated noise, blowing dust, air emissions, traffic disruption, and soil erosion will likely occur during construction.

**Illinois Department of Natural Resources (IDNR) State Historic Preservation Office (SHPO):** Records of consultation were submitted to IDNR for their consult. An IDNR SHPO letter dated March 28, 2025, indicates that there are no anticipated impacts to historic properties.

**IDNR Impact Assessment:** The loan applicant submitted project information to the IDNR EcoCAT website to determine compliance with the Illinois Endangered Species Act, Illinois Natural Areas Preservation Act and the Illinois Wetlands Act. The EcoCAT review results dated August 13, 2024, indicated that there are no protected resources in the project area locations.

**U.S. Army Corps of Engineers (USACE):** A request for consultation was submitted to the USACE for the proposed project. An email dated May 7, 2025, from the Tulsa District U.S. Army Corps of Engineers Office indicated that the proposed project does not appear to require a Department of the Army permit pursuant to Section 404 of the Clean Water Act.

**IDNR Office of Water Resources (OWR):** The project information was reviewed by IDNR/OWR to determine if a joint application was needed for the proposed project. IDNR/OWR determined that the project was covered under Statewide Permits Number 6 and 8 (SWP No. 6 and 8). All terms and conditions of SWP No. 6 and 8 must be included in the construction contract documents and followed throughout construction of the project.

**Illinois Department of Agriculture (IDOA):** In addition, information regarding the proposed project was submitted to the Illinois Department of Agriculture (IDOA) for review. IDOA issued a letter dated April 30, 2025, indicating the project complies with the Illinois Farmland Preservation Act.

**Tribal Nations:** Project information was submitted to all tribal nations with property interests in the project area April 24 and 25, 2025 and September 29, 2025. A letter received back from Osage Nation dated November 13, 2025, stated that this project will most likely not adversely affect any sacred properties and/or properties of cultural significance to the Osage Nation.

Public comments are invited on the proposed project. For further information contact:

Lanina Clark, Project Manager  
Infrastructure Financial Assistance Section  
Illinois Environmental Protection Agency  
Bureau of Water  
2520 W. Iles Ave.  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
(217)782-2027

























