



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

June 18, 2018
Limited Environmental Review and Finding of No Significant Impact
Manchester – Sewer Collection System Rehabilitation Phase II
Adams County
WPCLF No. CS390563-0006

The attached Limited Environmental Review (LER) is for a wastewater project in your area which the Ohio Environmental Protection Agency intends to finance through its Water Pollution Control Loan Fund (WPCLF) below-market interest rate revolving loan program. The LER describes the project, its costs, and expected environmental benefits. Making available this LER fulfills Ohio EPA's environmental review and public notice requirements for this loan program.

Ohio EPA analyzes environmental effects of proposed projects as part of its WPCLF program review and approval process. We have concluded that the proposed project should not result in significant adverse environmental impacts. This project's relatively narrow scope and lack of environmental impacts qualifies it for the LER rather than a more comprehensive Environmental Assessment. More information can be obtained by calling or writing the person named at the end of the document.

Loan award will proceed without further environmental review or public comment unless new information shows that environmental conditions of the proposed project have changed significantly.

Sincerely,

A handwritten signature in blue ink that reads "Jerry Rouch".

Jerry Rouch, Assistant Chief
Division of Environmental and Financial Assistance
Office of Financial Assistance

JR/JS

attachment

LIMITED ENVIRONMENTAL REVIEW

A. PROJECT IDENTIFICATION

Project Name: Village of Manchester – Sewer Collection System Rehabilitation Phase II

WPCLF No.: CS390563-0006

Project Contact: Robert Hildebrant, Mayor
Village of Manchester
4th & Pike Street
Manchester, OH 45114

B. HISTORY and EXISTING CONDITIONS

The Village of Manchester owns and operates the village's sanitary sewer system and wastewater treatment plant (WWTP). The sewer system, constructed in 1969, consists of approximately 19 miles of sewer sized up to 15-inches in diameter. The sewer system contains three lift stations. These are the North lift station (constructed in 1060), the South lift station (rebuilt in 2018), and the East (a.k.a., High School) lift station (constructed in 2007). The WWTP was originally constructed in 1969, with upgrades in 1994 and early 2018.

Sanitary sewers and WWTPs function optimally within a range of flows of sanitary sewage only. Additional clear water flows, whether from downspouts, leaky manholes, or other connections to sewers (inflows) or from ground water entering cracks in the sewer (infiltration), can exceed the capacity of the sewers and WWTPs, and cause operational problems, basement backups and/or direct discharge of untreated wastewater to surface water.

With peak flows during rain events, backups of sanitary sewage are a potential human health threat due to human pathogens, and a potential environmental threat if sanitary sewage reaches surface water due to overflows from manholes or is directly pumped to the storm sewer to avoid basement backups.

A 2012 evaluation of the sanitary sewer system was the basis for Phase I of the rehabilitation of the sewer collection system and is the basis for Phase II (the current project). Phase I was completed in early 2018 and consisted of repairs and rehabilitation to parts of the collection system, replacement of the South Lift Station, and upgrades to the wastewater treatment plant (WWTP). In total, approximately 4,100 linear feet (lf) of 8-, 12- and 15-inch diameter sewer lining was installed, more than 850 lateral services were reestablished and 129 of the village's 274 manholes were repaired. Additionally, the WWTP blowers and influent flow meter were replaced.

The Village of Manchester has requested approximately \$2 million from the Ohio Water Pollution Control Loan Fund (WPCLF) to finance the Sewer Collection System Rehabilitation Phase II project.

C. PROJECT DESCRIPTION

This project location is the WWTP and scattered areas within residential areas primarily in the west portion of the village (see Figures 1 and 2). The project will use cured-in-place-pipe (CIPP) technology to line approximately 975 lf of 8-inch diameter sanitary sewer pipe and 1,320 lf of 15-inch diameter sanitary sewer pipe. CIPP technology is commonly used for pipe rehabilitation since it is trenchless, requiring no excavation. Point repairs will be performed on approximately 190 lf of 8-inch diameter sanitary sewer pipe. Manholes in need of repair (approximately 53) not included in Phase I will be rehabilitated. Once sanitary sewer work is completed, each section repaired will be inspected with a camera to ensure the work was completed to specifications.

Multiple upgrades will be performed at the WWTP, including installation of a Supervisory Control and Data Acquisition (SCADA) system, which will keep accurate logs of plant operations, minimize risk when no operator is available and notify the operator of any issues at the plant. Electrical upgrades to the North and East Lift Stations will be performed to ensure communication with the new SCADA system.

Overall, the project will minimize sanitary sewer overflows by eliminating both inflow/infiltration and high flows to the WWTP, improve the WWTP processes that cause poor treatment, extending the system's useful life and improving environmental conditions by reducing sanitary sewer overflows to the Ohio River.

D. ESTIMATED PROJECT COSTS

The WPCLF uses funds to offer incentives to disadvantaged communities for the protection of public health and attainment of state water quality standards. In 2018, the WPCLF offers "principal forgiveness," a reduction to the amount of principal that an eligible applicant would otherwise need to repay for its project. Principal forgiveness functions much like a grant: the eligible capital costs of the project are reduced by the principal forgiveness amount, thereby eliminating a portion of the principal (and interest) that the borrower must repay.

The Village of Manchester will borrow approximately \$2 million from the WPCLF, the entire amount of which is eligible for principal forgiveness (funds that require no repayment). Any additional funds would be at the Hardship interest rate of 0%. During the 20-year loan period, with principal forgiveness, the total project cost to the Manchester will be \$0. Without principal forgiveness and the Hardship rate of 0%, the total cost would be approximately \$3.4 million.

E. PROJECT SCHEDULE

If the expected loan award is approved in September 2018, the Village of Manchester expects construction to occur from October 2018 through June 2019. It is expected that the initial loan repayment to the WPCLF program will be in January 2020.

F. PUBLIC NOTIFICATION

The Village of Manchester posts information regarding council meetings, ordinances, etc., on its Facebook page. Council meetings are open to the public. Based on the limited environmental and economic impacts and the community's awareness of the Phase I project that was completed in early 2018, this is considered an appropriate level of public participation.

Ohio EPA will make a copy of this Limited Environmental Review (LER) decision and Finding of No Significant Impact available to the public on the Division of Environmental and Financial Assistance webpage at: <http://epa.ohio.gov/defa/ofa.aspx> (“WPCLF Documents for Review and Comment”) and will provide it on request to interested parties.

G. PLANNING INFORMATION

Due to the nature of the proposed project and its location within previously disturbed areas within the WWTP and along streets and mowed lawns, coordination with the Ohio Department of Natural Resources, Ohio Historic Preservation Office, and United States Fish and Wildlife Service was not required. However, reviews of the respective environmental resources were completed by Ohio EPA, Division of Environmental and Financial Assistance, to determine that there will be no effect on properties listed or eligible for listing on the Nation Registry of Historic Places, or on threatened and endangered species.

H. CONCLUSION

The proposed upgrades are minor upgrades/rehabilitation of existing facilities that generally qualify for an LER and meet the following additional LER criteria:

They have no significant environmental effect, no effect on high value environmental resources, and do not require extensive specific impact mitigation. All work will be within the Village of Manchester and on the existing WWTP site, developed areas lacking important environmental features, and involves limited soil disturbance totaling less than one acre. Standard construction best management practices will minimize noise, dust and storm water runoff.

They are cost effective and not controversial. With most existing structures in good condition, the proposed rehabilitation and upgrades of Manchester's existing WWTP and lining/rehabilitating the existing sanitary sewer system, is more cost effective than constructing new facilities and piping. A typical Manchester household's average annual sewer bill is approximately \$414, which is 1.4% of local median household income (MHI = \$28,779). These numbers compare favorably to the Ohio average sewer bill of \$661 and 1.2% of Ohio MHI. Sewer bills below 1.8% of MHI are generally considered affordable. Ohio EPA is unaware of controversy about or opposition to this project.

This project does not create a new, or relocate an existing, discharge to surface or ground waters; will not result in substantial increases in the volume of discharge or the loading of pollutants from an existing source or from new facilities to receiving waters; and, will not provide capacity to serve a population substantially greater than the existing population. This project will line, rehabilitate and replace portions of the existing storm sewer, rehabilitate manholes and lift stations, and make needed improvements to the WWTP. This project will reduce shallow ground water infiltration but will not alter the final discharge location of the existing system.

The planning activities for the project have identified no potentially significant adverse impacts. The project is expected to have no significant short-term or long-term adverse impacts on the quality of the human environment or on sensitive resources (surface waters, coastal zones, floodplains, wetlands, state-designated scenic or recreational rivers, prime or unique agricultural lands, aquifer recharge zones, archaeologically or historically significant sites, threatened or endangered species, or state and federal wildlife areas). The Floodplain Administrator for the village will provide an acknowledgement that portions of the project are within the existing floodplain but will not affect flooding or flood elevations. The project will reduce shallow ground water infiltration, reduce sanitary sewer overflows to the Ohio River and ensure that the system operates efficiently, minimizing potential human health concerns.

I. CONTACT PERSON

Julie Spangler
Ohio EPA - DEFA
P.O. Box 1049
Columbus, OH 43216-1049
(614) 644-3661
julie.spangler@epa.ohio.gov

