



Pesotum, Illinois

Village of Pesotum - New Sanitary Sewer System & Wastewater Treatment Plant (FCA#22-913)

**IEPA Preliminary Environmental Impacts Determination (PEID) Public Meeting (IEPA#L17-6528)
– August 27, 2023 @ 4:30 pm, Hartman Park, East Lincoln Street, Pesotum, Illinois**

Presenter:

Narendra Patel, PE, PMP® | Senior Project Manager

Fehr Graham – Champaign, Illinois

Illinois PE#062-060002, PMP#3363551

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Key Highlights

- **IEPA Facility Planning – Preliminary Environmental Impact Determination (PEID) approval summary (July 2023)**
 - ✓ **PEID Project Summary Overview**
- **IEPA Facility Planning Report (January 2023)**
 - ✓ **Planning Highlights**
 - ✓ **Environmental Clearances**
- **Questions/Comments**



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

217-782-2027

Project Summary and Preliminary Environmental Impacts Determination

Date: JUL 13 2023

Loan Applicant: Pesotum

IEPA Loan Project Number: L176528

To all interested persons:

Section 365.330 of the Illinois Procedures for Issuing Loans from the Water Pollution Control Loan Program requires that the Illinois Environmental Protection Agency (IEPA) conduct an assessment of the environmental impacts of proposed wastewater 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. Within 60 days of receiving this letter, the 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 IEPA contact person identified in the attached document.

For information purposes only, a copy of this document is being provided to your local newspaper of record.

Your interest and participation in this process are appreciated.

Sincerely,

Heidi Allen
Pre-Construction Unit Manager
Infrastructure Financial Assistance Section
Bureau of Water

HA:RH PEID - Pesotum - L176528.docx

Attachment

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Project Summary and Preliminary Environmental Impacts Determination (PEID)

The following project summary and environmental assessment has been prepared by the Illinois Environmental Protection Agency (IEPA) to assist the loan applicant in complying with the public notice requirements. This report is based on information submitted to the IEPA by the Village of Pesotum. Sources of information include the following documents: New Sanitary Sewer System Facility Plan Project 22-913 prepared by Fehr Graham Engineering and Environmental, dated January 4, 2023. Additional documentation was obtained from loan application documents and compiled by the IEPA.

Part I – Project Information

Project Name: New Sanitary Sewer System and Wastewater Treatment Plant

Project Number: L176528

Loan Applicant: Village of Pesotum

County: Champaign

Current Population: 547

Future Population (20 year): 700

Background Information: The Village of Pesotum is located in Champaign County, Illinois, south of the City of Champaign at the intersection of Interstate 57 and U.S. Route 45. The Village is currently an unsewered community and the residents use individual septic tank systems to treat their wastewater. These systems are not municipally owned or operated. The Village does maintain a network of field tiles.

Project Description: The proposed project will construct a sanitary sewer collection system in the village and a new Wastewater Treatment Plant. The new sanitary sewer system will include construction of approximately 9,710 feet of 10" diameter and 18,470 feet of 8" diameter sanitary sewers, 200 feet of bored and jacked 18" steel casing pipe with 10" sanitary carrier pipe under Route 45 and ICRR/Canadian National (CN) railroad crossings, about 84 manholes, and approximately 218 sanitary sewer service connections. The new wastewater treatment plant will have a fine screen, bypass manual bar screen, and flow measurement and sampling devices installed in a headworks structure. The screened effluent will go through a covered and aerated two-cell lagoon and polishing reactor. Following this, the effluent will be disinfected with chlorine, de-chlorinated, and then discharged into Hackett Branch.

Project Location: The sanitary sewer collection system will be installed throughout the village and connected to the new wastewater treatment plant which will be constructed on the east side of the village near the Hackett Branch waterway. See attached map for further clarification on project locations.

Project Justification: The Village currently relies on individual septic tank treatment and discharge systems rather than centralized wastewater collection and treatment facilities. This method has many negative impacts that affect almost all facets of a municipality, including pollution of natural resources, discouragement of future economic and cultural development, and a significant decrease in financial security for both the Village and its residents. Many of the septic systems in the Village also need replacement and are failing. Failing septic systems discharge improperly treated wastewater into the environment, ending up in ponds, streams, and ditches which is a public health hazard.

Estimated Construction Start Date: September 2024

Estimated Construction Completion Date: December 2026

Project Cost Estimate: \$11,600,000

Part II – Project Affordability for Residents and Utility Customers

The Village of Pesotum is proposing to finance the project costs with a \$11,600,000 loan from the IEPA Water Pollution Control Loan Program (WPCLP). A total loan amount of \$11,600,000 with an estimated interest rate of 1.81% for a twenty (20) year period would have an annual repayment of approximately \$691,733. The interest rate adjusts annually on July 1st. All loans are subject to the interest rate in effect at the time a loan agreement is issued.

The loan program rules include provisions for incentives such as reduced interest rates, partial principal forgiveness, and extended repayment periods for qualifying applicants. The criteria used to determine incentive qualifications are found in Section 365.210 and 365.250 of the Procedures for Issuing Loans from the WPCLP, 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 1st.

Using current data, the Village is eligible to receive partial principal forgiveness of 15% of the loan (\$1,740,000), a loan term of 30 years, a small community interest rate of 1.36% (75% of the base interest rate), and an additional environmental discount rate of 0.2% reduction of the small community rate. The Village also plans to apply for a \$5,000,000 grant through the IEPA Unsewered Communities Construction Grant Program (UCCGP). If the Village receives these incentives and the IEPA UCCGP grant, the annual debt service would be reduced to approximately \$191,897.

A user rate will be established to maintain the new sewer system and wastewater treatment plant as well as to repay this loan. 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. Applicants that qualify for principal forgiveness will not have a repayment obligation for a portion of their loan. Principal forgiveness and/or a reduced interest rate will reduce the loan payment amount and possibly any associated increase to the user charges. Principal forgiveness is not guaranteed until a loan agreement is issued.

Source of Loan Repayment: User fees

Current Average Monthly Residential Cost of Sewer Service: The Village is an unsewered community and currently does not have a sewer billing structure in place.

Projected Average Monthly Residential Cost of Service: The proposed sewer fee amount is dependent upon the IEPA loan incentives available to the Village. If the Village receives the qualifying 15% principal forgiveness loan incentive as well as the IEPA UCCGP grant, the new sewer fee is anticipated to be \$95 per month flat fee. If the Village does not receive these incentives, the project may be deemed unaffordable at this time.

Number of Customers or Service Connections: 218 proposed billable residential customers

Median Household Income (MHI): \$75,625

Financial evaluation of the proposed project: To evaluate the costs of the proposed project for the community, a percentage comparison of MHI to the average, annual cost for sewer service is utilized. The projected average annual sewer cost per customer of \$1,140 is 1.5% of the MHI for the Village of Pesotum. The percentage is for comparison only and has no impact on whether a project qualifies for funding from the IEPA. 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): This project was reviewed by IDNR to determine compliance with the IL Endangered Species Act, IL Natural Areas Preservation Act, and the IL Wetlands Act. IDNR's review indicated no negative impacts are expected due to this project.

State Historic Preservation Office (SHPO): This project has been reviewed by the SHPO for compliance with the National Historic Preservation Act, Section 106. A Phase I Archaeological Survey was completed after which SHPO indicated that impacts to historical or archaeological resources are not expected as a result of this project.

U.S. Army Corps of Engineers (USACE): Given the proposed discharge into Hackett Branch from the new wastewater treatment plant, Pesotum submitted project information to the USACE. The USACE determined the proposed activities fall under Nationwide Permit 58. The project must adhere to all the terms and conditions of the permit.

Illinois Department of Agriculture (IDOA): The project was reviewed by the IDOA due to the presence of agricultural land in the project area. IDOA determined that because most of the planned improvements will be located within Pesotum's corporate boundaries and minimal agricultural land will be converted, the project is consistent with the IEPA's Agricultural Land Preservation Policy and in compliance with Illinois' Farmland Preservation Act.

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

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Infrastructure Financial Assistance Section
Illinois Environmental Protection Agency
Bureau of Water
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276
(217)782-2027



NEW TREATMENT PLANT LOCATION

New Sanitary Sewer System Facility Plan



Project 22-913

January 4, 2023

1610 Broadmoor Drive
Champaign, Illinois 61821

Village of Pesotum
103 East Lincoln Street, Pesotum, Illinois 61863

**WASTEWATER FACILITY PLAN
FOR
NEW SANITARY SEWER SYSTEM**

**PREPARED FOR:
VILLAGE OF PESOTUM**

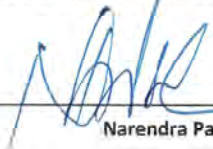
PROJECT NO.: 22-913

DATE: January 4, 2023



License Expires: November 30, 2023

SIGNATURE:


Narendra Patel, PE, PMP

DATE:

1.4.2023

PREPARED BY:

FEHR GRAHAM

STATE OF ILLINOIS LICENSE NO. 184-003525

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PART 1: EXECUTIVE SUMMARY

The purpose of this Facility Plan is to assess the feasibility of the new collection system and the WWTP and also to determine the financial impact of building these improvements for the Village of Pesotum (Village). The Village is currently an unsewered community and the residents use individual septic tank systems to treat their wastewater. The proposed project will provide the Village with its own sanitary sewer collection system and wastewater treatment capabilities to align with the goals set by the IEPA and the CWA.

1.1 Applicant and Project Information

The Village is located in Champaign County, and is interested in constructing a new collection system and a new WWTP to treat its wastewater. The US Census Bureau estimates the 2020 population to be 550 residents. For conservatism, the design year (2053) population is calculated to be about 700. The maps showing general locations of the proposed sanitary sewer system and plant location can be seen in Exhibits A and B, respectively.

1.2 Project Description

The Village currently does not have a sanitary sewer system and a viable method of treating their wastewater, and residents currently use individual septic tanks to treat their wastewater. The proposed project will construct a network of sanitary sewer collection systems in the Village and a new WWTP.

New sanitary sewer system will generally include construction of approximately 9,710 feet of 10" diameter, and 18,470 feet of 8" diameter sanitary sewers; 200 feet of bored and jacked 18" steel casing pipe with 10" sanitary carrier pipe under Route 45 and ICRR/Canadian National (CN) railroad crossings; about 84 each 4' diameter sanitary manholes; approximately 218 sanitary sewer service connections including sewer sewers and fittings, other incidental site improvements items.

The new WWTP will have a fine screen, bypass manual bar screen, and flow measurement and sampling devices installed in a headworks structure. Screened effluent will go through a covered and aerated two-cell lagoon and polishing reactor as described in later sections of this report as the recommended treatment strategy. The polishing reactor effluent will then be disinfected with chlorine, de-chlorinated and then discharged at the proposed outfall location into *Hackett Branch* in compliance with the expected NPDES permit effluent limits.

1.3 Project Justification

The Village currently relies solely on the individual septic tank treatment and discharge systems rather than a centralized wastewater collection and treatment facilities. This method has many negative impacts that affect almost all facets of a municipality, including pollution of natural resources, discouragement of future economic and cultural development, and a significant decrease in financial security for both the Village and its residents. To mitigate these negative socio-economic and environmental impacts, the Village has decided to consider providing a new sanitary sewer system and wastewater treatment plant for a reliable wastewater treatment capabilities to the residents and businesses.

All of wastewater in the Village is currently treated by the aging and failing individual septic tank systems. These systems are not municipally owned or operated facilities. The Village does maintain a network of field tiles. Septic tank discharges contain raw or partially treated wastes that are discharged to these tiles and are in turn discharged into drainage ditches located east and west parts of town.

Septic tank overflows to the tile network become necessary for three reasons: 1) high groundwater levels, 2) unsuitable soils for leaching fields, and 3) the lots are too small to accommodate properly sized leach fields. There is a public health hazard and odor problem associated with discharging contaminated water to streams and open ditches. Health problems are also associated with wastewater that ponds in the backyards of residents where septic tank leach fields are not functioning properly.

The Village is often approached by neighbors of failing septic systems for the Village to intervene. The Illinois Department of Public Health (IDPH) typically gets involved leading to warnings to violating property owners for discharging improperly treated wastewater onto their neighbors. Often times, IEPA is contacted about violations. While many of the existing septic tanks likely have completely failed, and the others are expected to fail as they continue to age, leaving homes uninhabitable and potentially forcing the Village to pay for the demolition of the properties. When a septic tank fails, a replacement system must be permitted by the IDPH that meets today's standards for a leach field. This means that wastewater cannot leave the lot without obtaining an NPDES permit. Most homes in the Village are on lots that are too small to construct a replacement leach field. In this case, the property owners are expected to install an aerated system, which not only requires an IEPA discharge permit, but also costs more than \$20,000 on average, according to IDPH.

On top of the required permitting and fees, there will also be power, maintenance, and testing costs to run the aerated system. The cost of this type of system exceeds that of a centralized system, which benefits the entire community. The Village has held public meetings over the past few years to discuss the benefits of connecting the entire Village to a new sanitary sewer system. The latest efforts to initiate the project was a public meeting held on October 3, 2021. Village officials, engineers, and others were there to present information, answer questions, and discuss concerns with Village residents. The advantages of a new sanitary sewer system with a centralized treatment plant, rough order of magnitude of project costs and financing options, leading to pursuing IEPA low interest loan and IEPA unsewered community grant, and responsibilities of homeowners were all discussed during the meeting.

1.4 Estimated Construction Start/Completion Dates

The estimated start date for construction is September 2024 and the project is expected to finish by December 2026. A detailed breakdown of the expected schedule is in Section 9.1 of this report.

1.5 Project Cost Estimate

The proposed project has two parts. The first part involves construction of the sanitary sewer collection system. The second part involves construction of a WWTP which will treat the influent from the collection system. The construction of the collection system is expected to cost approximately \$7,897,000. The construction of the WWTP will be approximately \$3,703,000. This brings the total project cost to approximately \$11,600,000.

1.6 Project Affordability for Residents and Utility Customers

1.6.1 Source of Loan Repayment

As the Village currently does not have a sanitary sewer system and WWTP, a new sewer use and user charge ordinance will need to be adopted to institute a dedicated source of revenue system. The rates should be setup in a way that the revenue generated will be adequate to properly operate and maintain plant and also to payback an annual debt service for the IEPA loan.

1.6.2 Current Average Monthly Residential Cost of Service

None since the Village is an unsewered community at this time.

1.6.3 Project Average Monthly Residential Cost of Service

The Village currently does not have a sanitary sewer treatment system and thus there are no sewer ordinances. The Village obtains its potable water from Illinois American Water Company (IAWC), with the residents paying the monthly water bills to IAWC.

In support of financing the proposed sanitary sewer system and WWTP and to properly operate and maintain the plant, the following monthly average sewer bill is estimated depending on the various scenarios factoring in unsewered community grant and principal forgiveness:

Table 1-1: Proposed Average Sewer Bill Estimation

IEPA Loan Financing Scenario	Average Monthly Sewer Bill Amount
No principal forgiveness and no unsewered community grant	\$193
15% principal forgiveness and no unsewered community grant	\$167
\$5,000,000 unsewered community grant and 15% principal forgiveness	\$95

1.6.4 Proposed Monthly Rate of Service Calculation

The proposed sanitary sewer user charge ordinance will need to include sewer charges of at least the monthly sewer bill amount estimated for the respective financial scenario. Assuming no unsewered community grant or principal forgiveness is available to the Village, the monthly sewer use charge is recommended to be a flat fee of \$193 per month per user. If the Village is granted only 15% principal forgiveness, but no unsewered community grant, the monthly sewer flat fee would need to be \$167 per month per user. In the best-case scenario, if the Village is granted a full \$5,000,000 unsewered community grant, and additional 15% principal forgiveness, then the resulting monthly sewer flat fee would need to be \$95 per month per user.

1.6.5 Number of Customers or Service Connections

Reportedly, 218 sewer users will be connected to the new sanitary sewer system.

1.6.6 MHI

\$76,339 as per 2020 US Census database.

1.6.7 Percentage of MHI to Pay Cost of Service

The Village has an average median household income of \$76,339. If an unsewered community grant and 15% principal forgiveness are not available, the per user monthly sewer flat fee will be \$193, which equates to 3.0 % of MHI and well exceeding the affordability upper value of 2.0% of MHI making the project unaffordable. If an unsewered community grant is not granted, but the Village only 15% principal forgiveness is granted, the per user monthly sewer flat fee will be \$167, which equates to 2.6% of MHI and still exceed the upper threshold value of affordability of 2.0% MHI making the project unaffordable.

This shows how critical it is for the Village to receive a maximum amount of unsewered community grant and maximum amount of principal forgiveness to lower the proposed sewer user cost to more affordable levels. If the Village is awarded a full \$5,000,000 unsewered community grant and additional 15% principal forgiveness, the resulting per user monthly sewer flat fee will be \$95, which equates to 1.5% MHI meeting the affordability guideline and making the project affordable to the Village residents.

1.7 Environmental Review and Impacts

The proposed project will have a positive impact on the water quality of surrounding streams. As mentioned above, majority of the Village's population uses septic tank systems for the treatment of their wastewater. Septic tanks are limited in their ability to treat wastewater. When septic tanks contents are released into a leach field or into a field tile, the polluted water finds its ways into the nearby streams, in turn, polluting the streams and the water bodies they are a tributary to.

A new WWTP will treat wastewater to meet the standards set by the facility's NPDES permit. The NPDES permit limits align with the goals of the CWA, thus reducing pollution. The IDNR EcoCAT signoff was requested for this proposed project, which immediately came back with the IDNR determination of terminating consultation since the project will not have any adverse impact to rare or endangered species of animals and plants, natural areas, nature preserves on any protected resources.

A request for signoff IDNR's State Historic Preservation Offices (SHPO) was sent on November 1, 2022, for this project. The SHPO response correspondence was issued on November 16, 2022, requiring the Village to have a preliminary archaeological survey performed to ascertain a possibility of project location of not having any historic resources found. Fehr Graham consulted back with IDNR's SHPO staff to further clarify the exact location to perform such survey, which IDNR responded with needing the small areas of the proposed WWTP site, its influent sewer strip, and a plant outlet pipe route to be surveyed. Copies of these correspondences are included in Exhibit N of this report. As of date of this report, Fehr Graham is in the process of obtaining quotes from a few IDNR-certified archeologists to perform such survey for the Village's consideration and authorization. Once complete, the results that survey will be submitted to the IDNR's SHPO office, and a final sign-off correspondence will be sent over to the IEPA for information.

A signoff request letter was also sent out to the IDOA via e-mail on November 1, 2022. The IDOA responded with a signoff letter on the same day, stating that the proposed project follows the IDOA's Water and Sewer Line Construction Standards and Policies and, therefore, complies with the Illinois Farmland Protection Act.

Tribal signoff requests were also sent out to nine separate native tribes that may potentially have tribal lands around the project area. To date, one of the tribes responded with a signoff letter stating that the proposed project will not disturb any tribal lands. Such signoff letters from the other tribes are awaited and will be forwarded to the Agency as soon as they are received.

2.3.4 Historical Population

The population of the Village in 1980 was 651. From 1980 to the present, the population has not seen a small decline with the present 2020 estimate of 550. However, being in the vicinity of Champaign-Urbana area, the Village may see a slight increase in the population once the sanitary sewers and treatment plant infrastructure is in place.

2.3.5 Make Up of Customer Base

Much of the Village's user base consists of residential users with a few commercial users. This customer base is not expected to see a major change other than a marginal increase in the number of residential users as town grows by design year 2053.

2.3.6 Population Projections

Based on U.S. Census data, the Village's population data is summarized below.

Table 2-1: Design Year (2053) Population Projection

Year	Population
1980	651
1990	558
2000	521
2010	551
2020	550
2030	600 (±)
2040	650 (±)
2050	700 (±)

(1) U.S. Census Bureau, 2000 and 2010 Census, 2020 Population

Based on a review of available historic data, the population of the Village steadily decreased between 1980 to 2000. However, from 2000 to 2020, it has increased to about 550. As a benefit of having the sanitary sewer infrastructure in place once constructed, the population of the Village is expected to see a marginal increase by the design year 2053. Therefore, for conservatism, the population of the Village by design year 2053 is assumed to be 700, equating to the proposed plant's DAF of 0.07 MGD.

Population projections, like any other form of forecast, must be viewed with due regard for their speculative nature. Changes in population within an area are a function of a complex set of socio-economic and other factors, many of which cannot be anticipated. Therefore, it must be recognized that a population projection is, in large measure, the result of an analysis of information about past population trends for an area. However, realistically, future events or developments, only a few of them foreseeable, will determine the actual changes.

PART 3: EFFLUENT LIMITATIONS

The proposed design of the WWTP is estimated to have a DAF of 0.07 MGD and a DMF of 0.18 MGD as discussed in the later section.

3.1 Current Permits

None.

3.2 Water Quality and Effluent Standards

As part of the CWA, all states are required to identify waters that are currently not meeting water quality standards, otherwise known as impaired waters. The IEPA has compiled a list of impaired waters within the state of Illinois and has prioritized them for studies necessary to develop TMDLs for each pollutant of concern. The primary designated use of the proposed receiving stream named *Hackett Branch* is listed as Aquatic Life. The stream is impaired for aquatic life with a potential causes given as a dissolved oxygen and total phosphorus. However, *Hackett Branch* is not subject to any TMDL limits at this time.

3.3 Expected Effluent Limits

In order to obtain the expected effluent limits, Fehr Graham requested the IEPA to provide expected effluent limits for design purposes. The IEPA responded in a letter on September 21, 2022, providing expected effluent limits that may be imposed through an NPDES permit. The IEPA correspondence letter can be seen in Exhibit C. Below is a summary of the expected effluent limits for the treatment plant, based on the IEPA discharge limits correspondence.

Table 3-1: Expected Future NPDES Permit Discharge Limits

Parameter	Load Limits, lbs./day DAF (DMF)			Concentration Limits, mg/L		
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum
Flow (MGD)	0.07 MGD (Monthly Average) and 0.18 MGD (Daily Maximum)					
CBOD₅	5.8 (15)	-	11.7 (30)	10	-	20
Suspended Solids	7.1 (18)	-	14 (36)	12	-	24
pH	Shall be in the range of 6.0 to 9.0 standard units					
Fecal Coliform	Daily Maximum shall not exceed 400 per 100 mL (May through October)					
Chlorine Residual	-	-	-	-	-	0.05
Ammonia – Nitrogen as N:Ammonia - Nitrogen as N:						
March-May/Sept.-Oct.	1.1 (2.9)	2.7 (6.9)	5.9 (13.4)	1.9	4.6	8.9
June-August	0.88 (2.3)	2.2 (5.6)	6.1 (15.5)	1.5	3.7	10.3
Nov.-Feb.	2.3 (5.9)	N/A	4.9 (12.6)	3.9	N/A	8.4
Dissolved Oxygen:				Monthly Average not less than	Weekly Average not less than	Daily Minimum
March-July	-	-	-	N/A	6.0	5.0
August-February	-	-	-	5.5	N/A	3.5

3.2 Other Discharge in the Planning Area

None.

PART 5: PROPOSED FLOWS AND LOADS

5.1 Collection System Flows and Loads

The proposed project includes a new sanitary sewer system containing several feet of a combined 10" and 8" sanitary sewers, about 218 each of new 6" sanitary sewer service connections, and sanitary manholes. The CN railroad tracks and Route 45 run through town and divide the Village. It is conservatively assumed that nearly half of the total 218 sewer users are located on the west side of the railroad and the other half are located on the east side. In general, a network of 8" and 10" sanitary sewers are planned on the west side that transport of the sewer flows to a low point at Chestnut Street and Madison Street on the west of railroad. The 10" sanitary sewer from this location will run underneath the railroad and Route 45 to the east part of the town and will run along Madison Street to Park Street from where it will continue to the proposed WWTP location. Several feet of 8" and 10" sewers will be installed on the east side of the town which will drain into the main 10" sanitary sewer on Madison Street. The sewer system average flows are estimated to be 70,000 gpd or 0.07 MGD for the design year 2053, and a maximum flow, at the collection system peaking factor of 4.0, is estimated to be 0.28 MGD. The planned depths of 8" and 10" sewers at the respective minimum slopes would be adequate to transport the anticipated average and maximum flows to the proposed WWTP.

5.2 WWTP Flows and Loads

As mentioned above, since this is a new sanitary sewer system, the flows and loads for a new WWTP are estimated based on the criteria mentioned in, *35 IAC: Part 370: Illinois Recommended Standards For Sewage Works*. Based on a design population of 700 P.E., the plant design loadings are summarized below.

The proposed wastewater treatment plant will be designed to handle the following flows and loadings.

Table 5-1: Twelve-Month Average Flow and Loads

Parameter	Average [mg/L]	Average [lbs./day]	P.E.
DAF	0.07 MGD		700
DMF	0.18 MGD		-
P.F. ⁽¹⁾	2.5		-
BOD ₅	204	119	700
TSS	240	140	700
TKN	30	18	-

⁽¹⁾ Typical WWTP peaking factor of 2.5.

5.3 Summary of Planning Considerations

For our recommendation, a treatment type that is not overly complicated from an operator standpoint, but provides ample treatment capabilities, will be a criterion for consideration. The type of treatment plant that will be recommended will be based on the present and future needs of the Village. The recommendation will also take into consideration that the total cost of the project does not put a financial burden on the Village both in the short term and long term and also is affordable per the USEPA guidelines.

PART 7: PROPOSED PROJECT

7.1 Description of Proposed Project

The proposed project will include the construction of a new sanitary sewer system and a new lagoon type WWTP in the Village. The new proposed treatment plant will have a DAF of 0.07 MGD and a DMF of 0.18 MGD. A summary of the major items to be constructed in this project entails:

A. Collection System

1. 10" sanitary sewers (all depths), approximately 9,710 feet (±)
2. 8" sanitary sewers (all depths), approximately 18,470 feet (±)
3. Bored and jacked 18" steel casing pipe with 10" sanitary carrier pipe under Route 45 and ICRR/CN railroad crossings, approximately 200 feet (±)
4. 4' diameter sanitary manholes, about 84 total (±)
5. 6" sanitary sewer services, including service connection fitting and appurtenances, approximately 218 services (±)
6. Site restoration, utilities protection, and improvements items.

B. New Wastewater Treatment Plant

1. New headworks building with fine screen, manual bypass bar screen, and parshall flume flow measurement device
2. One covered and aerated two-cell lagoon with baffles, covers, aeration diffusion systems
3. One polishing reactor
4. Two 15HP blowers
5. Chlorine contact tank
6. Chlorine feed system
7. Sodium bisulfite de-chlorination feed system
8. Effluent flow measurement system
9. Process building
10. Outfall structure near Hackett Branch.

7.2 Anti-Degradation Analysis

7.2.1 General

This section addresses the anti-degradation aspects and requirements of the project, which are regulated by the 35 Illinois Administrative Code (IAC) Section 302.105 under Title 35 Part 302 – Water Quality Standards. This section of the code was added to Title 35 in December 2002 in order to “protect the existing uses of all waters of the State of Illinois and to maintain the quality of waters with quality that is better than water quality standards, and to prevent unnecessary deterioration of waters of the State.” This Section demonstrates that with the proposed project, the impacts on the water quality in the Hackett Branch will be improved as result of this project when compared to the current condition.

7.2.2 Receiving Stream Description

The proposed new WWTP would be discharged into the Hackett Branch under a new discharge permit that will be obtained. The portion of Hackett Branch that would receive effluent from the WWTP is in the vicinity of the Waterbody Segment IL_BERB-TO-C1- accessed from the IEPA and listed under the 303(d) list impaired waters. The 303(d) list identified the main cause of impairment identified in this creek is from Dissolved Oxygen and Total Phosphorus on the list, with “medium” priority ranking.

PART 8: PROJECT FINANCING

8.1 Current Sewer System Revenue and Expenditures

Since the Village is currently an unsewered community, no sewer system revenue source exist or system expenses incurred at this time.

8.1.1 Operating Revenue

No operating revenue stream exists at this time. In order to generate adequate revenue to pay for the annual debt service, and operation and maintenance costs for the new sanitary sewer system and WWTP, the Village will need to institute the sewer user revenue stream by adopting a new sewer rates ordinance.

8.1.2 Non-Operative Revenue

None present at this time since no sewer system nor sewer revenue stream exists at this time.

8.1.3 Operating Expenses

No operating expenses incurred at this time. When the Village completes construction of the new sewer system and WWTP and new system is in operation, likely in 2027 or so, the annual operating expenses are expected to be about \$145,000 per year, or other negotiated amount associated with operation and maintenance of new sewer system and WWTP. The proposed sewer rate's structure to be adopted will need to cover the adequate revenue to offset the operating expenditure.

8.1.4 Non-Operative Expenses

None present at this time since no sewer system nor sewer revenue stream exists at this time.

8.2 Opinion of Probable Cost

The overall project cost is estimated to be \$11,600,000, in which the project cost for the recommended lagoon-based treatment plant is estimated to be \$3,703,000, and the project cost for the new sanitary sewer system is estimated to be \$7,897,000. The overall project cost includes construction contingencies, planning, design, bidding and construction phase engineering, and legal/administration costs.

Itemized summary of the proposed project costs included in the table below:

Table 8-1: Project Cost Estimate Summary

Item	Proposed Sanitary Sewer System	Proposed WWTP	Total
Construction Cost	\$6,053,000	\$2,840,000	\$8,893,000
Construction Contingencies (10%)	\$606,000	\$284,000	\$890,000
Design Engineering (Incl. Planning)	\$666,000	\$313,000	\$979,000
Construction Engineering (Incl. Bidding)	\$533,000	\$250,000	\$783,000
Legal & Financial Administration	\$39,000	\$16,000	\$55,000
Total Project Cost	\$7,897,000	\$3,703,000	\$11,600,000

The Village intends to obtain funding from IEPA revolving loan under a single loan to fund entire project.

8.4 Sewer Rates

8.4.1 Number of Users

Currently, the Village has about 218 water users, and the same number is used as the proposed billable sewer users.

8.4.2 Current Average Billed Water Flows

The Village does not have its own municipal water supply system at this time, and is served by the Illinois American Water Company for its potable water needs. The proposed average sewer billing will be recommended to be based on a flat fee regardless of water usage to be billed to each sewer customer on a monthly basis by the Village staff.

8.4.3 Current Average Monthly Bill

Since the Village is an unsewered community at this time, there is no sewer billing structure in place.

8.4.4 Future Debt Service Charge

The future annual debt service charge associated with this project financed by the IEPA loan for various financial scenarios is estimated using on 0.73% interest and 30-year loan term. The 0.73% interest rate is based on the Village being eligible for Small Community Interest Rate (75% of Base Rate) with additional 0.2% discount to add sanitary sewers and treatment plant in the currently unsewered community. Future annual debt service charge for various financing scenarios is summarized in a table below.

Table 8-2: Estimated Annual Debt Service

IEPA Loan Financing Scenario	Total Project Cost	Unsewered Community Grant	15% Principal Forgiveness	Total Loan Amount to be paid back	Annual Debt Service (at 0.73%-30 Year Term)
With No Principal Forgiveness and No Unsewered Community Grant	\$11,600,000	-	-	\$11,600,000	\$440,800
With 15% Principal Forgiveness and No Unsewered Community Grant	\$11,600,000	-	(\$1,740,000)	\$9,860,000	\$374,680
With \$5,000,000 Unsewered Community Grant and 15% Principal Forgiveness	\$11,600,000	(\$5,000,000)	(\$990,000)	\$5,610,000	\$213,180

The detailed estimation of annual debt service for the above scenarios is included in Exhibit P.

8.4.5 Future Average Monthly Bill

In order for the Village to generate adequate revenue to help continue to pay for the future annual debt service; and operation, and maintenance expenses for the proposed sanitary sewer system and WWTP,

the Village is recommended to institute a new sewer billing revenue mechanism by formally adopting the new sewer use and sewer user charge ordinances. The proposed sewer user charge is recommended to be based on a flat fee per month per user.

The future average monthly bill estimation for three scenarios are summarized below:

Table 8-3: Proposed Average Sewer Bill Estimation

IEPA Loan Financing Scenario	Average Monthly Sewer Bill Amount
With No Principal Forgiveness and No Unsewered Community Grant	\$193
With 15% Principal Forgiveness and No Unsewered Community Grant	\$167
With \$5,000,000 Unsewered Community Grant and 15% Principal Forgiveness	\$95

8.4.6 Affordability Analysis

The summary of affordability analysis is summarized in the table below.

Table 8-4: Affordability Analysis

IEPA Loan Financing Scenario	Average Monthly Sewer Bill Amount	Annualized Sewer User Cost	MHI	Affordability Screener (% of MHI)	Remark (Per EPA Affordability Guide)
With No Principal Forgiveness and No Unsewered Community Grant	\$193	\$2,316	\$76,339	3.0%	> 2%; Unaffordable
With 15% Principal Forgiveness and No Unsewered Community Grant	\$167	\$2,004	\$76,339	2.6%	> 2%; Unaffordable
With \$5,000,000 Unsewered Community Grant and 15% Principal Forgiveness	\$95	\$1,140	\$76,339	1.5%	≤ 1.5%; Affordable

Based on the above affordability comparison, without an unsewered community grant and 15% principal forgiveness, the corresponding annualized sewer service costs result into the affordability screener values of greater than 2% of the Village MHI, making the proposed project clearly unaffordable and justifying a need for the Village to receive a maximum amount of grant and principal forgiveness as possible. If the Village is granted a full \$5,000,000 unsewered community grant and 15% of principal forgiveness, the resulting annualized sewer service cost represents 1.5% of MHI, which is right at the affordability mark making the proposed project affordable to the Village residents.

PART 9: PROJECT IMPLEMENTATION

9.1 Project Schedule

Summarized below is a project implementation schedule depicting major milestones with anticipated completion timeframes:

Table 9-1: Implementation Schedule

Task	Completion Date
Complete Facility Plan and submit to IEPA	December 2022
IEPA approval of Facility Plan	April 2023
Completion of project design by Engineer	March 2024
Submit plans and specifications for review and necessary permits	March 2024
Passing necessary debt authorizing, sewer use, and sewer rate ordinances	April 2024
Submit loan application package	April 2024
Advertise for bids	May 2024
Bid opening	July 2024
Construction start date	September 2024
Substantial completion date	July 2026
Final completion date	December 2026

9.2 Village's Responsibilities

It is the Village's responsibility to retain the sewer system and WWTP operating staff or the Contract Operator to operate the new facilities and maintain an effluent quality that meets its NDPES permit requirements after it is issued. The Village should take any actions necessary to meet this goal, else the Village be violating environmental laws. Such violations may subject the Village to hefty fines and other legal action by the IEPA and/or USEPA and put a financial burden on the Village. The Village will also need to provide the funds and personnel necessary each year to properly operate and maintain the WWTP. Particular attention should be given to personnel safety at the plant.

The Village should continue future planning so that maintenance and capital improvements can be scheduled and budgeted in an adequate manner. This will reduce the chances of any unexpected financial burden on the users of the Village's sanitary sewer system. In order to prepare for that occurrence, the Village should hold a public hearing to review the contents of this facility planning report along with IEPA's Preliminary Environmental Impact Determination (PEID) summary. The Village should then submit the PEID public hearing notes and any questions-answers to IEPA for review and issuance of the formal planning approval. The Village will also adopt a sewer use and user charge ordinance to generate adequate revenue to help pay for the annual debt service associated with the financing of this major capital project, and its annual Operations, Maintenance, and future Replacement costs, and also adopt debt authorization ordinance to help secure the IEPA revolving loan. It is recommended that the Village authorize the design of this plant improvement project as quickly as possible. The Village should be prepared to complete the following tasks throughout the design of the project:

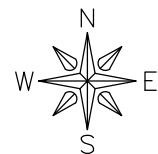
1. Borrow or allocate money from general funds to begin the design phase.
2. Identify existing available cash on hand.



PRELIMINARY COLLECTION SYSTEM LAYOUT

LEGEND

—	8" SANITARY 5' TO 10' DEPTH	~14,928'
—	8" SANITARY 10' TO 15' DEPTH	~3532'
—	10" SANITARY 5' TO 10' DEPTH	~1188'
—	10" SANITARY 10' TO 15' DEPTH	~3113'
—	10" SANITARY 15' TO 20' DEPTH	~4090'



400 0 400 FEET
GRAPHIC SCALE IN FEET

08/29/2021

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OPPC - NEW SANITARY SEWER SYSTEM (COMMON TO ALL TREATMENT ALTERNATIVES)

NEW SANITARY SEWER SYSTEM

Village of Pesotum, Illinois

Friday, December 2, 2022

EQUIPMENT					
ITEM	DESCRIPTION	MATERIAL	INSTALLATION	LUMP SUM	TOTAL
A. NEW SANITARY SEWER SYSTEM					\$ 5,105,000
1	10" PVC SDR35/26 Sanitary Sewer Extension to WWTP Site (15' to 20' Depth, approx. 1,500 LF)			\$ 250,000	\$ 250,000
2	10" PVC SDR35/26 Sanitary Sewers (15' to 20' Depth, approx. 4,100 LF)			\$ 600,000	\$ 600,000
3	10" PVC SDR35/26 Sanitary Sewers (10' to 15' Depth, approx. 2,920 LF)			\$ 350,000	\$ 350,000
4	10" PVC SDR35/26 Sanitary Sewers (5' to 10' Depth, approx. 1,190 LF)			\$ 120,000	\$ 120,000
5	8" PVC SDR35/26 Sanitary Sewers (10' to 15' Depth, approx. 3,540 LF)			\$ 250,000	\$ 250,000
6	8" PVC SDR35/26 Sanitary Sewers (5' to 10' Depth, approx. 14,930 LF)			\$ 900,000	\$ 900,000
7	US Route 45 and ICRR/CNRR Crossing, with 18" Bored and Jacked Steel Casing Pipe, and 10" PVC SDR35/26 Sanitary Carrier Pipe (approx. 200± L.F.)			\$ 160,000	\$ 160,000
8	4' Dia. Precast Concrete Manholes (15' to 20' Depth; approx. 16 ea)			\$ 140,000	\$ 140,000
9	4' Dia. Precast Concrete Manholes (10' to 15' Depth; approx. 13 ea)			\$ 100,000	\$ 100,000
10	4' Dia. Precast Concrete Manholes (5' to 10' Depth; approx. 51 ea)			\$ 275,000	\$ 275,000
11	4' Dia. Precast Concrete Bolt-Down Manholes (15' to 20' Depth; approx. 4 ea)			\$ 40,000	\$ 40,000
12	Building Service Connections (approx. 218 total; Each containing 6" PVC Service Laterals, Connection, etc)			\$ 250,000	\$ 250,000
13	Remove and Replace Existing Surfaces (Pavements, Bitumin Surfaces; Concrete Sidewalks, Curb & Gutters, etc)			\$ 760,000	\$ 760,000
14	Existing Utilities (Watermains, Gasmains, Storm Sewers, Telephone Line, FO, Cable, etc) Conflict Relocation (all sizes)			\$ 760,000	\$ 760,000
15	Traffic Control, Erosion, & Sediment Controls			\$ 50,000	\$ 50,000
16	Site Clean-up, Grading, Surface Restoration, Seeding & Mulching			\$ 100,000	\$ 100,000
SUBTOTAL					\$ 5,105,000
SITE EXCAVATION / BACKFILL				2%	\$ 103,000
SITE ELECTRICAL AND CONTROL				0%	\$ -
SITE PIPING				0%	\$ -
CIVIL				2%	\$ 103,000
MOBILIZATION/DEMOBILIZATION				3%	\$ 154,000
BONDS AND INSURANCE				1.5%	\$ 77,000
CONTRACTOR OVERHEAD AND PROFIT				10.0%	\$ 511,000
TOTAL CONSTRUCTION COST					\$ 6,053,000
CONTINGENCY (10%)					\$ 606,000
DESIGN ENGINEERING (INCL. PLANNING)					\$ 666,000
CONSTRUCTION ENGINEERING					\$ 533,000
LEGAL & FINANCIAL ADMINISTRATION					\$ 39,000
OPINION OF PROBABLE PROJECT COST (PLANNING STAGE)					\$ 7,897,000

PRESENT WORTH ANALYSIS

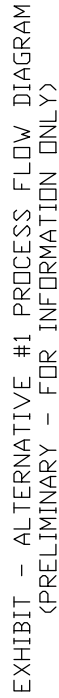
Annual Operations & Maintenance Costs	\$	-
Total Replacement Costs @ Year 10	\$	-
Total Replacement Costs @ Year 15	\$	-
Total Salvage Value	\$	2,967,000
P/A Factor		17.169
P/F - 5 year		0.937
P/F - 10 year		0.870

OPPC - NEW SANITARY SEWER SYSTEM (COMMON TO ALL TREATMENT ALTERNATIVES)				
NEW SANITARY SEWER SYSTEM				
Village of Pesotum, Illinois				
Friday, December 2, 2022				
ITEM	DESCRIPTION	EQUIPMENT		
		MATERIAL	INSTALLATION	LUMP SUM
				P/F - 15 year
				P/F - 20 year
				TOTAL
				0.806
				0.742
				PRESENT WORTH OF O&M COSTS
				\$ -
				PRESENT WORTH OF TOTAL REPLACEMENT COSTS
				\$ -
				PRESENT WORTH OF SALVAGE VALUE
				\$ (2,203,000)
				TOTAL PROBABLE PROJECT PRESENT WORTH
				\$ 5,694,000

Notes:

1. The above estimate is budgetary in nature and is based on "2022 Dollars". This estimate is intended to present "Rough Order of Magnitude (ROM)" for the preliminary scope items mentioned above for qualitative comparison of the alternates considered in the study, and is prepared based on several assumptions, which shall be validated during design of this alternative, if so chosen, and the above preliminary cost estimate needs to be updated.

2. Since the Engineer has no control over the cost of labor, materials or equipment, or over the Contractor's method of determining prices, or over competitive bidding, or market conditions, his opinion of Probable Project Cost or Construction Cost that are provided herein are made on the basis of of his experience and qualifications and represent his best judgment as a design professional familiar with the construction industry, but the Engineer cannot and does not guarantee that the proposals, bid or the Construction Cost will not vary from opinions of probable cost prepared by him. If the client wishes greater assurance as to the Construction Cost, he shall employ an independent cost estimator.





E ADAMS ST

PROPOSED WWTP
ACCESS DRIVE

NEW 10" PLANT
INFLUENT SEWER

PROPOSED WWTP
SITE

NEW STP OUTFALL 001

NEW PLANT
EFFLUENT LINE

HACKETT BRANCH

PROPOSED STRUCTURES

- | | |
|---------|--|
| STR #10 | INFLUENT SCREENING STRUCTURE |
| STR #20 | COVERED & AERATED LAGOON
(COMPLETE MIX & SETTLING CELL) |
| STR #30 | POLISHING REACTOR STRUCTURE |
| STR #40 | CHLORINE CONTACT TANK |
| STR #50 | EFFLUENT METERING STRUCTURE |
| STR #60 | PROCESS BUILDING |

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OPPC - ALTERNATIVE 1 - COVERED-AERATED LAGOON & POLISHING REACTOR PROCESS (LEMNA™ OR EQUAL)
NEW WASTEWATER TREATMENT PLANT
Village of Pesotum, Illinois
Friday, December 2, 2022

		EQUIPMENT			
ITEM	DESCRIPTION	MATERIAL	INSTALLATION	LUMP SUM	TOTAL
10 Influent Fine Screening (Headworks) Structure					\$ 492,000
1	Concrete Structure (Complete)			\$ 300,000	\$ 300,000
2	Pole-Barn Headworks Building (Complete)			\$ 80,000	\$ 80,000
3	Influent Flow Meter	\$ 10,000	20%		\$ 12,000
4	Manual Bar Screen			\$ 5,000	\$ 5,000
5	Fine Screen	\$ 60,000	50%		\$ 90,000
6	Building Electrical & HVAC			\$ 5,000	\$ 5,000
20 Covered-Aerated Lagoons (Lemna™ or Equal)					\$ 300,000
7	0.84 MG Lagoon (with Liner)			\$ 50,000	\$ 50,000
8	LemTec Lagoon Equipment (Baffle, Covers, and Diffusers)	\$ 200,000	20%		\$ 240,000
9	Lagoon Piping & Ancilliaries			\$ 10,000	\$ 10,000
30 Polishing Reactor Structure					\$ 315,000
10	Concrete Structure, 7'x23'x12' (Complete)			\$ 125,000	\$ 125,000
11	Lemna's LPR Media (954 cf) & Equipment	\$ 150,000	20%		\$ 180,000
12	Controls & Instrumentation			\$ 10,000	\$ 10,000
40 Chlorine Contact Tank					\$ 350,000
13	Concrete Structure, 1,900 gal (Complete)			\$ 200,000	\$ 200,000
14	Effluent Pump Station (150 gpm rated) & Discharge Forcemain (@ 100 LF)			\$ 150,000	\$ 150,000
50 Effluent Flow Metering Structure					\$ 22,000
15	Concrete Structure (Complete)			\$ 10,000	\$ 10,000
16	Effluent Flow Meter	\$ 10,000	20%		\$ 12,000
60 Process Building					\$ 646,000
17	Process Building (Complete)			\$ 500,000	\$ 500,000
18	Blowers (2-15HP ea), Controls, & Instrumentation	\$ 30,000	50%		\$ 45,000
19	Sodium Hypochlorite Feed Equipment	\$ 15,000	20%		\$ 18,000
20	Sodium Bi-sulfite Feed Equipment	\$ 15,000	20%		\$ 18,000
21	Laboratory Equipment			\$ 25,000	\$ 25,000
22	Plant Controls & Instrumentation			\$ 25,000	\$ 25,000
23	Building Electrical & HVAC			\$ 15,000	\$ 15,000
				SUBTOTAL	\$ 2,125,000
SITE EXCAVATION / BACKFILL				6%	\$ 128,000
SITE ELECTRICAL AND CONTROL				3%	\$ 64,000
SITE PIPING				5%	\$ 107,000
CIVIL				5%	\$ 107,000
MOBILIZATION/DEMOBILIZATION				3%	\$ 64,000
BONDS AND INSURANCE				1.5%	\$ 32,000
CONTRACTOR OVERHEAD AND PROFIT				10.0%	\$ 213,000
TOTAL CONSTRUCTION COST					\$ 2,840,000
				CONTINGENCY (10%)	\$ 284,000

OPPC - ALTERNATIVE 1 - COVERED-AERATED LAGOON & POLISHING REACTOR PROCESS (LEMNA™ OR EQUAL)
NEW WASTEWATER TREATMENT PLANT
Village of Pesotum, Illinois
Friday, December 2, 2022

ITEM	DESCRIPTION	EQUIPMENT			TOTAL
		MATERIAL	INSTALLATION	LUMP SUM	
	DESIGN ENGINEERING (INCL. PLANNING)				\$ 313,000
	CONSTRUCTION ENGINEERING				\$ 250,000
	LEGAL & FINANCIAL ADMINISTRATION				\$ 16,000
	OPINION OF PROBABLE PROJECT COST (PLANNING STAGE)				\$ 3,703,000

<u>PRESENT WORTH ANALYSIS</u>	
Annual Operations & Maintenance Costs	\$ 145,075
Total Replacement Costs @ Year 10	\$ -
Total Replacement Costs @ Year 15	\$ 65,000
Total Salvage Value	\$ 1,692,800
P/A Factor	17.169
P/F - 5 year	0.937
P/F - 10 year	0.870
P/F - 15 year	0.806
P/F - 20 year	0.742
PRESENT WORTH OF O&M COSTS	\$ 2,491,000
PRESENT WORTH OF TOTAL REPLACEMENT COSTS	\$ 52,000
PRESENT WORTH OF SALVAGE VALUE	\$ (1,257,000)
TOTAL PROBABLE PROJECT PRESENT WORTH	\$ 4,989,000

Notes:

1. The above estimate is budgetary in nature and is based on "2022 Dollars". This estimate is intended to present "Rough Order of Magnitude (ROM)" for the preliminary scope items mentioned above for qualitative comparison of the alternates considered in the study, and is prepared based on several assumptions, which shall be validated during design of this alternative, if so chosen, and the above preliminary cost estimate needs to be updated.

2. Since the Engineer has no control over the cost of labor, materials or equipment, or over the Contractor's method of determining prices, or over competitive bidding, or market conditions, his opinion of Probable Project Cost or Construction Cost that are provided herein are made on the basis of his experience and qualifications and represent his best judgment as a design professional familiar with the construction industry, but the Engineer cannot and does not guarantee that the proposals, bid or the Construction Cost will not vary from opinions of probable cost prepared by him. If the client wishes greater assurance as to the Construction Cost, he shall employ an independent cost estimator.

Applicant: Village of Pesotum
Contact: Michelle Brown
Address: P.O. Box 107
Pesotum, IL 61863

IDNR Project Number: 2305975
Date: 11/01/2022
Alternate Number: 22-913

Project: New Sanitary Sewer System and Wastewater Treatment Plant
Address: throughout the village, Pesotum

Description: For a new treatment, the Village proposes to use a multi-cell, covered, aerated lagoon followed by a polishing reactor type treatment system (as manufactured by Lemna LemTec™ Lagoon and Polishing Reactor system, or equivalent). Please refer to the attached preliminary process layout schematic map for reference. The lagoon treatment system consists of a two-cell lagoon having a smaller complete mix cell followed by a larger settling cell separated by baffles and both cells having aeration diffusers in them. Influent is directed into the first cell, from where it enters the second cell. Both cells are provided with a modular cover to help maintain ambient temperature for biological activities to take place efficiently, thus allowing an efficient BOD removal and some ammonia removal during all weather conditions. The lagoon effluent is then directed to a polishing reactor, where the residual BOD removal and a full ammonia removal will be provided. Two 15 HP each blowers will also be installed with one of these blowers will be in continuous operation and another as standby. Blowers will flow air into the lagoon and polishing reactor, increasing the dissolved oxygen content of the wastewater. The complete mix cell has a detention time of three days and settling cell has about nine days of detention time.

The project also entails the construction about 9,000 feet of 10-inch; and 18,500 feet of 8-inch sanitary sewers; 90 each 4-foot concrete manholes; 10,000 feet total of individual 6-inch sanitary sewer services, and other site improvements.

Collection system project activities will be performed on ground that has already been previously disturbed throughout the Village. Treatment construction will be on land that the Village will acquire well in advance of commencing the construction activities.

Natural Resource Review Results

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

The Illinois Natural Heritage Database contains no record of State-listed threatened or endangered species, Illinois Natural Area Inventory sites, dedicated Illinois Nature Preserves, or registered Land and Water Reserves in the vicinity of the project location. **Therefore, consultation under part 1075 is terminated.**

Wetland Review (Part 1090)

The Illinois Wetlands Inventory does not show wetlands within 250 feet of the project location. **Therefore, the wetland review under Part 1090 is terminated.**

This review is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, Natural Areas, or wetlands are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Termination does not imply IDNR's authorization or endorsement.

Location

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

County: Champaign

Township, Range, Section:

17N, 8E, 22

17N, 8E, 23



IL Department of Natural Resources

Contact

Adam Rawe

217-785-5500

Division of Ecosystems & Environment

Government Jurisdiction

IL Environmental Protection Agency

Permit Section

1021 North Grand Ave. East

P.O. Box 19276

Springfield, Illinois 62794

Disclaimer

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

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1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.

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Bureau of Land and Water Resources

State Fairgrounds • P.O. Box 19281 • Springfield, IL 62794-9281 • 217/782-6297 • TDD 866/287-2999 • Fax 217/557-0993

November 1, 2022

Ms. Michelle Brown
Fehr-Graham & Associates
1619 Broadmoor Dr.
Champaign, Illinois 61820

Re: Village of Pesotum (Champaign)
New Wastewater Collection and Treatment System
IEPA State Revolving Fund Program & Possibly Unsewered Community Grant Funds

Dear Ms. Brown:

Thank you for notifying the Illinois Department of Agriculture (IDOA) of Pesotum's request for IEPA Revolving Loan Program and Unsewered Community Program Funds. The project has been reviewed for its potential impact to agricultural land to determine its consistency with the IEPA's Agricultural Land Preservation Policy and compliance with Illinois' Farmland Preservation Act (505 ILCS 75/1 et seq.).

The Village of Pesotum is an unsewered community that has applied for IEPA funds to construct sewer mains and connections throughout the Village and build a multi-cell, covered, aeration lagoon and polishing reactor system for wastewater treatment. The project entails the construction of 9,000 LF of 10-inch and 18,500 LF of 8-inch sanitary sewers, 90 each 4-ft concrete manholes, 10,000 feet of individual 6-inch sanitary sewer service, and related appurtenances.

The wastewater treatment plant will be constructed on 3.6 acres of agricultural land located 0.3 miles east of Pesotum's corporate limits. The Village is planning to purchase the site for the wastewater treatment plant.

Because most of the planned improvements will be located within Pesotum's corporate boundaries and minimal agricultural land will be converted, the IDOA finds the loan application to be consistent with the IEPA's Agricultural Land Preservation Policy and in compliance with Illinois' Farmland Preservation Act.

Sincerely,

Brian Rennecker, Acting Chief
Bureau of Land and Water Resources

BR:JL

cc: Gary Bingenheimer, IEPA
Erin Gundy, Champaign County SWCD
Agency project file



Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
www.dnr.illinois.gov

JB Pritzker, Governor
Colleen Callahan, Director

Champaign County
Pesotum
Collection system - Various locations throughout village
Section:22-Township:17N-Range:8E, Section:23-Township:17N-Range:8E
Treatment plant - East of Park Street, Section:23-Township:17N-Range:8E
F-G-22-913, IEPA LOAN, UMA-710
New construction, wastewater collection & sanitary sewer treatment system / septic replacement

February 8, 2023

Michelle Brown
Fehr Graham
1610 Broadmoor Dr.
Champaign, IL 61821

Dear Ms. Brown:

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

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

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

Sincerely,

Carey L. Mayer, AIA
Deputy State Historic
Preservation Officer



Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
www.dnr.illinois.gov

JB Pritzker, Governor
Colleen Callahan, Director

Champaign County
Pesotum

PLEASE REFER TO: SHPO LOG #005110122

Collection system - Various locations throughout village, Section:22-Township:17N-Range:8E, Section:23-Township:17N-Range:8E
Treatment plant - East of Park Street, Section:23-Township:17N-Range:8E
F-G-22-913, IEPA LOAN
New construction, wastewater collection & sanitary sewer treatment system / septic replacement

November 16, 2022

Michelle Brown
Fehr Graham
1610 Broadmoor Dr.
Champaign, IL 61821

Dear Ms. Brown:

Thank you for requesting comments from our office concerning the possible effects of the project referenced above on cultural resources. Our comments are required by Section 106 of the National Historic Preservation Act of 1966 (16 USC 470), as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties".

The project area has not been surveyed and may contain prehistoric/historic archaeological resources. Accordingly, a Phase I archaeological reconnaissance survey to locate, identify, and record all archaeological resources within the project area will be required. This decision is based upon our understanding that there has not been any large scale disturbance of the ground surface (excluding agricultural activities) such as major construction activity within the project area which would have destroyed existing cultural resources prior to your project. If the area has been heavily disturbed prior to your project, please contact our office with the appropriate written and/or photographic evidence.

The area(s) that need(s) to be surveyed include(s) all area(s) that will be developed as a result of the issuance of the federal agency permit(s) or the granting of the federal grants, funds, or loan guarantees that have prompted this review. In addition to the archaeological survey please provide clear photographs of all structures in, or adjacent to, the current project area as part of the archaeological survey report.

Enclosed you will find an attachment briefly describing Phase I surveys and a list of archaeological contracting services. THE SHPO LOG NUMBER OR A COPY OF THIS LETTER SHOULD BE PROVIDED TO THE SELECTED PROFESSIONAL ARCHAEOLOGICAL CONTRACTOR TO ENSURE THAT THE SURVEY RESULTS ARE CONNECTED TO YOUR PROJECT PAPERWORK.

If you have further questions, please contact Jeff Kruchten, Chief Archaeologist at 217/785-1279 or Jeffery.kruchten@illinois.gov.

Sincerely,

Carey L. Mayer, AIA
Deputy State Historic
Preservation Officer
Enclosure

Narendra Patel

From: Heaton, Rachael <Rachael.Heaton@Illinois.gov>
Sent: Tuesday, January 17, 2023 12:08 PM
To: Michelle Brown
Cc: Narendra Patel; Tom Overmyer
Subject: RE: LRL-2023-00064-sjk, Pesotum, IL - Request for concurrence/signoff for Utility Construction under Nationwide Permit 58

Hi Michelle,

I double checked with my supervisors this morning and they feel the comments received from USACE work as a completed consultation for our purposes with the current project scope. Nationwide Permit 58 will be documented as a special condition for this project.

Thanks!

Rachael Heaton

Project Manager
Infrastructure Financial Assistance Section
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, IL 62702
Phone: (217) 782-2027
Email: Rachael.Heaton@Illinois.gov

From: Heaton, Rachael
Sent: Friday, January 13, 2023 2:20 PM
To: Michelle Brown <mbrown@fehrgraham.com>
Cc: Narendra Patel <npatel@fehrgraham.com>; Tom Overmyer <tovermyer@fehrgraham.com>
Subject: RE: LRL-2023-00064-sjk, Pesotum, IL - Request for concurrence/signoff for Utility Construction under Nationwide Permit 58

Thanks so much Michelle! This will work for the current stage of moving Pesotum towards planning approval. I'll double check with my supervisors next week but I believe once this project gets further along then we'll need that preconstruction notification sent and final clearance received from the Army Corp like Sarah mentioned. I'll let you know once I verify that.

Have a great weekend!

Rachael Heaton

Project Manager
Infrastructure Financial Assistance Section
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, IL 62702
Phone: (217) 782-2027
Email: Rachael.Heaton@Illinois.gov

From: Michelle Brown <mbrown@fehrgraham.com>
Sent: Friday, January 13, 2023 2:01 PM
To: Heaton, Rachael <Rachael.Heaton@Illinois.gov>
Cc: Narendra Patel <npatel@fehrgraham.com>; Tom Overmyer <tovermyer@fehrgraham.com>
Subject: [External] FW: LRL-2023-00064-sjk, Pesotum, IL - Request for concurrence/signoff for Utility Construction under Nationwide Permit 58

Hi Rachel,

Please see the note below from the Army Corp of Engineers. It looks as though the scope of work for the Pesotum project does work under the NWP 58.

Thanks!
Michelle

MICHELLE BROWN | Project Administrator
Fehr Graham | Engineering & Environmental

From: Keller, Sarah J CIV USARMY CELRL (USA) <Sarah.J.Keller@usace.army.mil>
Sent: Friday, January 13, 2023 10:52 AM
To: Michelle Brown <mbrown@fehrgraham.com>
Cc: Narendra Patel <npatel@fehrgraham.com>; Tom Overmyer <tovermyer@fehrgraham.com>
Subject: RE: LRL-2023-00064-sjk, Pesotum, IL - Request for concurrence/signoff for Utility Construction under Nationwide Permit 58

You don't often get email from sarah.j.keller@usace.army.mil. [Learn why this is important](#)

Thank you for the clarification. The scope of the proposed work does categorically fit under the scope of work covered under the NWP 58. If the village wants verification that the specific project meets the terms and conditions of the NWP 58, they will need to submit a preconstruction notification with the plan drawings and impact data mentioned in my previous email.

Regards,

Sarah

From: Michelle Brown <mbrown@fehrgraham.com>
Sent: Friday, January 13, 2023 11:47 AM
To: Keller, Sarah J CIV USARMY CELRL (USA) <Sarah.J.Keller@usace.army.mil>
Cc: Narendra Patel <npatel@fehrgraham.com>; Tom Overmyer <tovermyer@fehrgraham.com>
Subject: [URL Verdict: Neutral][Non-DoD Source] RE: LRL-2023-00064-sjk, Pesotum, IL - Request for concurrence/signoff for Utility Construction under Nationwide Permit 58

Hi Sarah,

Thank you for the quick response! Please note that the proposed project is just in the planning stage at this time, and that there are no design drawings available. This sign-off request seeking coverage of the proposed plant effluent pipe and headwall under NW permit 58 (Utility Line Activities) is prompted as a part of the IEPA planning review. The actual construction plans will be prepared in the future when the project moves into the Design Phase, which will include all confirmed field survey information to go with the final design plans. At this time, the Village is only looking for a sign-off

correspondence from your office indicating that the planned plant effluent pipe and outfall headwall are eligible items for approval under COE's NW58 permit provisions. For your information, we have attached the preliminary (hand-drawn) concept plan & section sketches along with the IDOT standard headwall detail that will be used during the future design phase to prepare the final construction drawings. Also note that Hackett Branch where the proposed discharge headwall will be located is a dry stream with 0 cfs 7Q10 flow. For conservatism, we have assumed nominal wet day WL of about 2' from the bottom. The construction of the proposed outfall headwall will not disturb any surfaces below the normal water level, and that the proposed riprap layer will be terminated above the normal water level line of the stream. Overall, the Contractor will be required to comply with the provisions of COE's NW58 permit. Again, much of the design specific information will be confirmed during the future design phase and also field-verified during the construction.

As mentioned above, at this time, the Village is only looking for the sign-off correspondence from your office indicating that the proposed effluent pipe and headwall are eligible to be approved under NW58 Utility line activities.

Village contact:

Village of Pesotum

103 East Lincoln Street

Pesotum, IL 61863

Michelle Brown (Village representative)

mbrown@fehrgraham.com

217352.7688

If you have any questions, please me know. Thanks,

Michelle Brown

MICHELLE BROWN | Project Administrator
Fehr Graham | Engineering & Environmental

From: Keller, Sarah J CIV USARMY CELRL (USA) <Sarah.J.Keller@usace.army.mil>

Sent: Thursday, January 12, 2023 6:58 AM

To: Michelle Brown <mbrown@fehrgraham.com>

Subject: LRL-2023-00064-sjk, Pesotum, IL - Request for concurrence/signoff for Utility Construction under Nationwide Permit 58

You don't often get email from sarah.j.keller@usace.army.mil. [Learn why this is important](#)

Under Section 404 CWA, USACE has jurisdictional authority for any discharge of fill below the ordinary high water mark of Hackett Branch (often, this elevation can be pretty close to what surveyor's identify as the "normal water elevation") and within any adjacent wetlands. This site does not appear to contain wetlands, but I do not have enough information regarding the proposed outfall within Hackett Branch. You will need to provide me outfall details showing the proposed apron and/or riprap scour protection (if applicable) compared to the ordinary high water mark.

Additionally, you need to provide me the contact information (name, address, phone number, email address) for the application/permittee (presumably the Village of Pesotum).

Please provide this information within 30 days of the date of this email or the request may be withdrawn. Do not hesitate to contact me with any questions.

Thanks,

Sarah Keller
Team Leader
Indianapolis Regulatory Office
Louisville District, USACE
Phone: (317) 543-9424 Ext. 3
Sarah.J.Keller@usace.army.mil

From: Duncan, Catherine F CIV USARMY CELRL (USA) <Catherine.F.Duncan@usace.army.mil>
Sent: Tuesday, January 10, 2023 3:55 PM
To: Lindley, Laban C CIV USARMY CELRL (USA) <Laban.C.Lindley@usace.army.mil>
Subject: Pesotum, IL - Request for concurrence/signoff for Utility Construction under Nationwide Permit 58

Good afternoon Laban,

We received the below email with attachment today. I believe this would fall under the North Regulatory Section. If not, let me know.

Thanks,
Cathy Duncan
Public Affairs Assistant
USACE LRL
502-315-6766

Good morning,

The Village of Pesotum is requesting concurrence and signoff for Utility Construction under Nationwide Permit 58 – Fact Sheet No. 9A(IL). Please see the attached items making this request.

Thank you!
Michelle Brown



MICHELLE BROWN | Project Administrator
Fehr Graham | Engineering & Environmental

1610 Broadmoor Drive
Champaign, Illinois 61821
P: 217.352.7688
fehrgraham.com

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Michelle Brown

From: Benjamin Rhodd <Benjamin.Rhodd@fcp-nsn.gov>
Sent: Monday, November 7, 2022 11:54 AM
To: Michelle Brown
Subject: RE: Forest County Potawatomi Community of Wisconsin Tribal Consultation - New Wastewater Collection & Treatment Project

Ms. Brown,

Pursuant to consultation under Section 106 of the National Historic Preservation Act (1966 as amended) the Forest County Potawatomi Community (FCPC), a Federally Recognized Native American Tribe, reserves the right to comment on Federal undertakings, as defined under the act.

The Tribal Historic Preservation Office (THPO) staff has reviewed the information you provided for this project. Upon review of site data and supplemental cultural history within our Office, the FCPC THPO is pleased to offer a finding of No Historic Properties affected of significance to the FCPC, however, we request to remain as a consulting party for this project.

As a standard caveat sent with each proposed project reviewed by the FCPC THPO, the following applies. In the event an Inadvertent Discovery (ID) occurs at any phase of a project or undertaking as defined, and human remains or archaeologically significant materials are exposed as a result of project activities, work should cease immediately. The Tribe(s) must be included with the SHPO in any consultation regarding treatment and disposition of an ID find.

Thank you for protecting cultural and historic properties and if you have any questions or concerns, please contact me at the email or number listed below.

Respectfully,

Ben Rhodd, MS, RPA Tribal Historic Preservation Officer
Forest County Potawatomi
Historic Preservation Office
8130 Mish ko Swen Drive, P.O. Box 340, Crandon, Wisconsin 54520
P: 715-478-7354 C: 715-889-0202 Main: 715-478-7474
Email: Benjamin.Rhodd@fcp-nsn.gov
www.fcpotawatomi.com

From: Michelle Brown <mbrown@fehrgraham.com>
Sent: Thursday, November 3, 2022 2:35 PM
To: Ned Daniels Jr. <Ned.DanielsJr@fcp-nsn.gov>; Benjamin Rhodd <Benjamin.Rhodd@fcp-nsn.gov>
Cc: presidentvillage097@gmail.com
Subject: Forest County Potawatomi Community of Wisconsin Tribal Consultation - New Wastewater Collection & Treatment Project

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mr. Daniels,

I have attached a consultation letter from the Village President of the Village of Pesotum, Champaign County, Illinois. The Village is conducting a review of this project to comply with Section 106 of the National Historic Preservation Act. Please review the letter and maps and provide any feed back to the Village President at presidentvillage097@gmail.com and myself within 30 days.

Thank you,
Michelle Brown

MICHELLE BROWN | Project Administrator
Fehr Graham | Engineering & Environmental

1610 Broadmoor Drive
Champaign, Illinois 61821
P: 217.352.7688
fehrgraham.com

Village of Pesotum

103 E. Lincoln Street
P.O. Box 200
Pesotum, IL 61863-0200

Phone (217) 493-0208
Fax (217) 867-2275
Website: www.pesotum.org

November 2, 2022

Joseph Rupnick, Chairperson
Prairie Band Potawatomi Nation
16281 Q Road
Mayetta, KS 66509

Re: Section 106 Review – Village of Pesotum/Champaign County

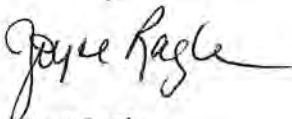
Dear Mr. Rupnick:

The Village of Pesotum will apply for funding from the Illinois Environmental Protection Agency (IEPA) for a new wastewater collection and treatment system. IEPA provides low interest loans through the State Revolving Fund (SRF), which receives annual federal capitalization funding from USEPA. Prior to receiving planning approval, IEPA requires review of all projects to assure compliance with federal cross-cutting authorities, including Section 106 of the National Historic Preservation Act (NHPA).

In cooperation with IEPA, our municipality will conduct a review of this proposed project's location to comply with Section 106 of the National Historic Preservation Act according to procedures outlined in 36 CFR Part 800. Due to tribal interests in Champaign County, IL, we invite you to be a consulting party in this review to help identify properties in the project area that may have historical, religious, or cultural significance to your tribe. If such properties are identified and the project has the potential to impact historical or cultural resources, we request guidance regarding how to avoid, minimize, or mitigate any adverse effects.

Information regarding the project is attached. If you would like to be a consulting party on this project, please respond to this letter within 30 days. Your response should include any concerns about the impact of this project. We value your opinion and if you have further questions regarding this project, please contact Michelle Brown at mbrown@fehrgraham.com or 217.352.7688.

Sincerely,



Joyce Ragle
Village President
Village of Pesotum, Illinois

Attachments: Project Location Maps

cc: Raphael Wahwassuck, Chairperson, Prairie Band Potawatomi Nation, 16281 Q Road, Mayetta, KS 66509

Village of Pesotum

103 E. Lincoln Street
P.O. Box 200
Pesotum, IL 61863-0200

Phone (217) 493-0208
Fax (217) 867-2275
Website: www.pesotum.org

November 2, 2022

Andrea A. Hunter, Director and THPO
Osage Nation
627 Grandview Avenue
Pawhuska, OK 74056

Re: Section 106 Review – Village of Pesotum/Champaign County

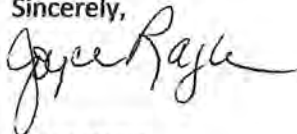
Dear Ms. Hunter:

The Village of Pesotum will apply for funding from the Illinois Environmental Protection Agency (IEPA) for a new wastewater collection and treatment system. IEPA provides low interest loans through the State Revolving Fund (SRF), which receives annual federal capitalization funding from USEPA. Prior to receiving planning approval, IEPA requires review of all projects to assure compliance with federal cross-cutting authorities, including Section 106 of the National Historic Preservation Act (NHPA).

In cooperation with IEPA, our municipality will conduct a review of this proposed project's location to comply with Section 106 of the National Historic Preservation Act according to procedures outlined in 36 CFR Part 800. Due to tribal interests in Champaign County, IL, we invite you to be a consulting party in this review to help identify properties in the project area that may have historical, religious, or cultural significance to your tribe. If such properties are identified and the project has the potential to impact historical or cultural resources, we request guidance regarding how to avoid, minimize, or mitigate any adverse effects.

Information regarding the project is attached. If you would like to be a consulting party on this project, please respond to this letter within 30 days. Your response should include any concerns about the impact of this project. We value your opinion and if you have further questions regarding this project, please contact Michelle Brown at mbrown@fehrgraham.com or 217.352.7688.

Sincerely,



Joyce Ragle
Village President
Village of Pesotum, Illinois

Attachments: Project Location Maps

cc: Geoffrey Standing Bear, Principal Chief, Osage Nation, PO Box 779, Pawhuska, OK 74056

Village of Pesotum

103 E. Lincoln Street
P.O. Box 200
Pesotum, IL 61863-0200

Phone (217) 493-0208
Fax (217) 867-2275
Website: www.pesotum.org

November 2, 2022

Douglas Lankford, Chief
Miami Tribe of Oklahoma
PO Box 1326
Miami, OK 74355

Re: Section 106 Review – Village of Pesotum/Champaign County

Dear Mr. Lankford:

The Village of Pesotum will apply for funding from the Illinois Environmental Protection Agency (IEPA) for a new wastewater collection and treatment system. IEPA provides low interest loans through the State Revolving Fund (SRF), which receives annual federal capitalization funding from USEPA. Prior to receiving planning approval, IEPA requires review of all projects to assure compliance with federal cross-cutting authorities, including Section 106 of the National Historic Preservation Act (NHPA).

In cooperation with IEPA, our municipality will conduct a review of this proposed project's location to comply with Section 106 of the National Historic Preservation Act according to procedures outlined in 36 CFR Part 800. Due to tribal interests in Champaign County, IL, we invite you to be a consulting party in this review to help identify properties in the project area that may have historical, religious, or cultural significance to your tribe. If such properties are identified and the project has the potential to impact historical or cultural resources, we request guidance regarding how to avoid, minimize, or mitigate any adverse effects.

Information regarding the project is attached. If you would like to be a consulting party on this project, please respond to this letter within 30 days. Your response should include any concerns about the impact of this project. We value your opinion and if you have further questions regarding this project, please contact Michelle Brown at mbrown@fehrgraham.com or 217.352.7688.

Sincerely,



Joyce Ragle
Village President
Village of Pesotum, Illinois

Attachments: Project Location Maps

cc: Diane Hunter, THPO, Miami Tribe of Oklahoma, PO Box 1326, Miami, OK 74355

Village of Pesotum

103 E. Lincoln Street
P.O. Box 200
Pesotum, IL 61863-0200

Phone (217) 493-0208
Fax (217) 867-2275
Website: www.pesotum.org

November 2, 2022

Ron Corn Sr., Chairman
Menominee Indian Tribe of Wisconsin
PO Box 910
Keshena, WI 54135-0910

Re: Section 106 Review – Village of Pesotum/Champaign County

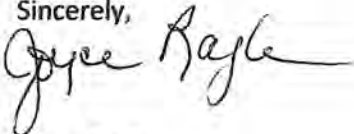
Dear Mr. Corn:

The Village of Pesotum will apply for funding from the Illinois Environmental Protection Agency (IEPA) for a new wastewater collection and treatment system. IEPA provides low interest loans through the State Revolving Fund (SRF), which receives annual federal capitalization funding from USEPA. Prior to receiving planning approval, IEPA requires review of all projects to assure compliance with federal cross-cutting authorities, including Section 106 of the National Historic Preservation Act (NHPA).

In cooperation with IEPA, our municipality will conduct a review of this proposed project's location to comply with Section 106 of the National Historic Preservation Act according to procedures outlined in 36 CFR Part 800. Due to tribal interests in Champaign County, IL, we invite you to be a consulting party in this review to help identify properties in the project area that may have historical, religious, or cultural significance to your tribe. If such properties are identified and the project has the potential to impact historical or cultural resources, we request guidance regarding how to avoid, minimize, or mitigate any adverse effects.

Information regarding the project is attached. If you would like to be a consulting party on this project, please respond to this letter within 30 days. Your response should include any concerns about the impact of this project. We value your opinion and if you have further questions regarding this project, please contact Michelle Brown at mbrown@fehrgraham.com or 217.352.7688.

Sincerely,



Joyce Ragle
Village President
Village of Pesotum, Illinois

Attachments: Project Location Maps

cc: David Grignon, THPO, Menominee Indian Tribe of Wisconsin, PO Box 910, Keshena, WI 54135-0910

Village of Pesotum

103 E. Lincoln Street
P.O. Box 200
Pesotum, IL 61863-0200

Phone (217) 493-0208
Fax (217) 867-2275
Website: www.pesotum.org

November 2, 2022

Darwin Kaskaske, Chairman
Kickapoo Tribe of Oklahoma
PO Box 70
McCloud, OK 74851

Re: Section 106 Review – Village of Pesotum/Champaign County

Dear Mr. Kaskaske:

The Village of Pesotum will apply for funding from the Illinois Environmental Protection Agency (IEPA) for a new wastewater collection and treatment system. IEPA provides low interest loans through the State Revolving Fund (SRF), which receives annual federal capitalization funding from USEPA. Prior to receiving planning approval, IEPA requires review of all projects to assure compliance with federal cross-cutting authorities, including Section 106 of the National Historic Preservation Act (NHPA).

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Sincerely,



Joyce Ragle
Village President
Village of Pesotum, Illinois

Attachments: Project Location Maps

cc: Kent Collier, NAGPRA, Kickapoo Tribe of Oklahoma, PO Box 70, McCloud, OK 74851

Village of Pesotum

103 E. Lincoln Street
P.O. Box 200
Pesotum, IL 61863-0200

Phone (217) 493-0208
Fax (217) 867-2275
Website: www.pesotum.org

November 2, 2022

Lester Randall, Chairman
Kickapoo Tribe of Indians of the Kickapoo Reservation in Kansas
824 111th Drive
Horton, KS 66439

Re: Section 106 Review – Village of Pesotum/Champaign County

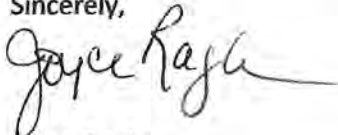
Dear Mr. Randall:

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Sincerely,



Joyce Ragle
Village President
Village of Pesotum, Illinois

Attachments: Project Location Maps

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P.O. Box 200
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November 2, 2022

Kenneth Meshigaud, Chairperson
Hannahville Indian Community, Michigan
N14911 Hannahville B1 Road
Wilson, MI 49896

Re: Section 106 Review – Village of Pesotum/Champaign County

Dear Mr. Meshigaud:

The Village of Pesotum will apply for funding from the Illinois Environmental Protection Agency (IEPA) for a new wastewater collection and treatment system. IEPA provides low interest loans through the State Revolving Fund (SRF), which receives annual federal capitalization funding from USEPA. Prior to receiving planning approval, IEPA requires review of all projects to assure compliance with federal cross-cutting authorities, including Section 106 of the National Historic Preservation Act (NHPA).

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Sincerely,



Joyce Ragle
Village President
Village of Pesotum, Illinois

Attachments: Project Location Maps

Village of Pesotum

103 E. Lincoln Street
P.O. Box 200
Pesotum, IL 61863-0200

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Fax (217) 867-2275
Website: www.pesotum.org

November 2, 2022

Ned Daniels Jr., Chairman
Forest County Potawatomi Community of Wisconsin
P.O. Box 340
Crandon, WI 54520

Re: Section 106 Review – Village of Pesotum/Champaign County

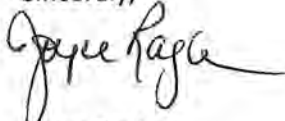
Dear Mr. Daniels:

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Sincerely,



Joyce Ragle
Village President
Village of Pesotum, Illinois

Attachments: Project Location Maps

cc: Ben Rhodd
THPO, Forest County Potawatomi Community of Wisconsin
P.O. Box 340
Crandon, WI 54520

November 2, 2022

John "Rocky" Barrett, Chairman
Citizen Potawatomi Nation, Oklahoma
1601 South Gordon Cooper Drive
Shawnee, OK 74801

Re: Section 106 Review – Village of Pesotum/Champaign County

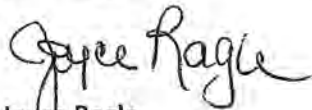
Dear Mr. Barrett:

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Sincerely,



Joyce Ragle
Village President
Village of Pesotum, Illinois

Attachments: Project Location Maps

cc: Kelli Mosteller, THPO, Citizen Potawatomi Nation, Oklahoma, 1601 South Gordon Cooper Drive,
Shawnee, OK 74801



Questions / Comments



Written comments may be submitted to:

Loan Applicant Contact

Christine Conner, Village Clerk
Village of Pesotum
103 East Lincoln Street
Pesotum, IL 61863

IEPA Project Contact

Rachael Heaton, IFAS Project Manager
Illinois EPA, BOW
1021 N. Grand Avenue East
Springfield, IL 62794

INSIGHT • EXPERIENCE • RESULTS