

# VILLAGE OF LIMA

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## December 28, 2022 Request for Qualifications Village of Lima Sanitary Sewer Inflow and Infiltration Study

Proposal must be received prior to 3pm on Wednesday, February 8, 2023  
Email Proposals in .pdf format to: [Clerk@VillageOfLima.us](mailto:Clerk@VillageOfLima.us)

Questions Regarding this proposal should be emailed to:  
John Wadach, Deputy Mayor, [JWadach@VillageOfLima.us](mailto:JWadach@VillageOfLima.us)

### Introduction:

The Village of Lima is seeking a comprehensive study of their sanitary sewer system to identify sources of inflow and infiltration into the system, and to create a plan for reducing these flows. The Village of Lima owns and operates their own sanitary sewer system that includes a wastewater treatment plant that is permitted to treat a maximum of 300,000 gallons per day. During rain events the flow into the plant has reached as high as 931,000 gallons per day. The added flow due to sources of inflow and infiltration puts the Village at risk of exceeding their discharge permit as well as adding undue stress on the plant. The necessity of reserving flow capacity for rain events also limits the Village's ability to add new sewer customers.

### Study Requirements:

#### Part I: Identification of Inflow and Infiltration Sources

This section must identify all significant sources of inflow and infiltration along with quantitative estimates of each source's contribution. The consultant is expected to utilize a variety of methods that may include but is not limited to analysis of historical and actual flow data during the study, visual inspection of manholes and other accessible components, internal video analysis of sewer mains and laterals, flow metering at various locations in the sanitary sewer system, smoke testing, and mathematical modeling.

#### Part II: Remediation Plan

The consultant is expected to present a plan for reducing inflow and infiltration. This plan must include a cost estimate for each action and along with an estimated time to implement the action. Actions should be listed in ascending cost/benefit order with action having the lowest cost/benefit ratio presented first. In cases where the reduction of flow into the sanitary system will create a new problem such as flooding, methods and costs for addressing these problems should be included in the remediation plan.

### Part III: Recommendations for Grant Funding

In order to implement the remediation plan the Village of Lima will require grant funding to minimize the financial impact on rate payers. The approximately 700 sewer customers are a small base upon which to spread new capital costs. It is therefore critical for the consultant to include potential sources of grant funding along with methodologies that the Village of Lima should follow in order to maximize their chance of being awarded grant funds.

#### **Request for Qualifications Requirements:**

Consultants should include the following components in their proposals.

1. A **Cover Page** that lists the name of this study, the name of the firm and the name of the principle contact along with their physical address, email address, telephone number.
2. An **Introduction Page** that includes information about the consultant firm that lists the experience and resources they possess for creating a superior Inflow and Infiltration Study for the Village of Lima.
3. A **List of Study Participants** that lists the name of each team member that will participate in the study, the tasks that they will responsible for, and the expertise and experience they possess to successfully complete their assigned tasks.
4. A description of the **Inflow & Infiltration Source Identification Methods** that will be used to identify all significant sources of inflow and infiltration along with quantitative estimates of each source's contribution. Consultants should include the experience they possess utilizing these methods and the resources that have available to employ them.
5. An explanation of how the **Remediation Plan** will be created. Consultants should include the experience they possess creating similar types of remediation plans.
6. A list of **Grant Funding Experiences** in which the consultant has utilized an engineering study to win grant funding for a small municipality.

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#### **Selection Criteria:**

The Village of Lima will evaluate proposals and negotiate a contract with the consultant that scores highest on the five criteria listed on the next page. Each criterion will be scored using the following scale: 3 points = Exceptionally Qualified, 2 points = Well Qualified, 1 point = Qualified, 0 point = Not Qualified.

1. The consultant firm's experience and resources for creating a superior Inflow and Infiltration Study for the Village of Lima.
2. The expertise and experience that study participants possess for successfully completing their assigned tasks.
3. The consultant's methods for identifying significant inflow and infiltration sources and the experience they possess utilizing these methods along with the resources that have available to employ them.
4. The remediation plan methodology and the consultant's experience creating similar types of remediation plans.
5. The consultant's experience using an engineering study to win grant funding for a small municipality.