

Village of Medina Long Term Control Plan

Public Participation

This document (LTCP), along with the Best Management Practices, and a map of the location of the CSOs will be posted at the Village of Medina Clerk's Office, Lee-Whedon Memorial Library and posted on the Village of Medina's website, www.villagemedina.org after acceptance of this document.

Combined Sewer System Characterization

- The Combined Sewer Overflows (CSOs) in the Village of Medina discharge into the Erie Barge Canal or into Oak Orchard Creek, both of which are Class "C" waters. There are no beach areas or swimming areas adjacent to, or down stream from any of our CSOs. There has never been any reported or known fish kills in the receiving waters of the Village of Medina CSOs.
- CSO #3 of the currently permitted CSOs was eliminated; details of this removal will be in the Annual Report.

Characterization and Monitoring

CSO Control Alternatives Presumptive Approach

- There has never been a report or complaint of washed up floatables. The sporadic observation of flows coming from the outfalls during rain events show clear water with little if any floatables or solids. In the past year there was only one (1) overflow event. This was due to a severe rain event on July 12, 2006. Rainfall was 2.46 inches over ten hours. This included a peak rainfall of 0.56 inches in twenty-three (23) minutes. There were no dry weather overflows. All CSOs are inspected on a weekly basis. In the past we have experienced less than four (4) CSOs per year. These were due to extreme rain events

CSO Water Quality Monitoring

- The visual monitoring of the CSOs during an overflow occurrence from heavy rain is performed on a sporadic basis due to manpower limitations. Priority CSOs for observation in order are 5A, 5B, 2B, 1, 6, 2A, 8B, 8A and 9. The Village of Medina has a limited amount of manpower to devote to the observations of these overflows. The use of this manpower is more effective in checking the sewer system for bottlenecks, blockages and infiltration of surface water entering the sewer system. The major goal is to improve the flow in the system, reduce the amount of basement backups and minimize the flow from the CSOs. If sufficient manpower is available during the overflow event, observation for the duration of the event and an approximation of the discharge (full pipe, half pipe, etc.) will be recorded.

CSO Control Alternatives

- Continue the practices of maximizing flow to the WWTP, collection system flow and capacity, control solids and floatables entering the system, and the other items as stated in our BMP.
- Continue the inspection for illegal connections to the sanitary sewer system (sump pumps, roof drains, surface drains, etc.) by the Village Code Enforcement Officer.
- Install SCADA controls at the sewer lift stations to control the pumps during wet weather periods. The system would monitor the level and alter the normal pumping of the station. We could pump the station down to its lowest level prior to the rain event maximizing the storage capacity in the lift station and discharge only enough to prevent sewer backups to the connections served by the station. This would be integrated into the existing SCADA system used for the Village's water system.
- Install remote sensors at the CSOs in locations that have the area available for the control panel and radio tower. They would be used to monitor the discharge times, flows and alarm reporting, these would also be integrated into the Village's existing SCADA system. The alarm capability would alert the department as soon as an overflow occurred and speed up the corrective action response.
- Observe the overflows before a rain event to make sure the indicators (tethered blocks) are in place and correlate the collected rain fall data with the overflow occurrences. This would take place before the SCADA integration.
- Investigate the installation of weir, gates or plates on the existing CSOs
- Under take new sanitary sewer and/or storm sewer projects when funding and grants are available.
- The goal of the Village is to eliminate as many of the CSOs as possible without causing basement backups, manhole overflows, damage to treatment facilities and financial hardship on the residents.

(There are currently projects that have been completed this year and the Village is in the planning stage for a project for next year. Details of these will be included in the Annual Report.)

Paul G. Nowak
Superintendent of Public Works.