



# Sanitary Sewer Overflow Annual Report

Division of Surface Water

**Date:** March 15, 2022  
**Facility name:** Department of Water, Water Utility Field Operations, Sewer Maintenance Bureau  
**Ohio NPDES permit no.:** 1PF00000\*PD  
**Period covered by report:** March 15, 2021 to March 15, 2022

**Contact person**

**Name:** Anthony Wade  
**Title:** Operations Administrator  
**Mailing address:** 900 Ottawa Street, Dayton, Ohio 45402  
**Telephone:** (937)333 - 4918  
**Email:** Anthony.Wade@daytonohio.gov

**Certification:**

*I certify under penalty of law that I have personally examined and am familiar with the information in this report and all attachments. Based on my inquiry of those persons immediately for obtaining the information contained in the report, I believe that the information is true, accurate, and complete.*

**Name** Anthony Wade **Title:** Operations Administrator  
**(typed):**

**Signature:**

**Date:**

3/15/22







Enter narrative analysis of WIB patterns by location, frequency and cause.

The City of Dayton, Department of Water, Division of Water Utility Field Operations Sewer Maintenance Bureau maintains a twenty-four hour seven days weekly emergency service implemented to investigate all customer complaints. For this calendar year WIB's increased by 21 occurrences. A query of our data base generated a total of 70 WIBs in 2021 and none were directly related to Sanitary Sewer Overflows (SSOs). WIBs remained unchanged in the Southeast Sewershed with 20, of the 20 WIBs there were four "other" blockages recorded. There were 6 WIBs in the Upper Riverdale Sewershed, there were 4 WIBs in 2020, with no other significant changes. In the Wolf Creek Sewershed, there were 27 WIBs in 2021 and 18 in 2020, increasing by 9 occurrences, no "other" blockages were recorded. In the Miscellaneous Sewershed, there were 3 WIBs in 2020 and 7 in 2021, there was one "other" blockage and no significant changes in the Sewershed. In the Lucille Sewershed there were 4 WIBs in 2020 and 9 in 2021, increasing by five, and no "other" blockages were recorded. In the Northeast Sewershed there were no WIBs in 2020 and 1 in 2021, there were no significant changes in the Sewershed. In the Southeast Sewershed, there was 1 SSOs due to grease. In the Northeast Sewershed there were no SSO occurrences. There were 2 SSO occurrences in the Miscellaneous Sewershed due to grease; occurrences decreased by 6 since 2020. There were 7 SSO occurrences in the Wolf Creek Sewershed; occurrences remaining the same as 2020, due to inclement weather, grease, root intrusion, debris, and vandalism; there were no significant changes in this sewershed since 2020. This sewershed continues to be a high grease incidence area; grease treatment blocks and solvent have been used to deter stoppages and blockages, which lead to SSO occurrences. Crews have increased the frequency of maintenance in this sewershed in an effort to reduce grease stoppage and blockage occurrences. In the Upper Riverdale Sewershed, there was 1 SSO occurrence due to debris, occurrences remained the same since 2020. The performance in this sewershed has improved, however, infiltration and inflow have typically negatively impacted the performance of this area, but there were no inclement weather occurrences during this period, which had to potential to negatively impact the sewershed. In the Lucille Sewershed, there was 1 SSO due to debris and grease; remaining the same since 2020, there are no noticeable changes in this sewershed. Overall, SSO occurrences reduced by 14 since 2020, which is a significant decrease. The Bureau has performed well in this measure, but intends to further enhance the following procedures in an effort to become more proficient. The Bureau has a standard operating procedure in place to increase the treatment of sanitary sewer mainlines for root growth; incidents have increased during this period, which has increased stoppages and blockages with regard to root growth, which potentially create Sanitary Sewer Overflows (SSOs). This plan is continuously being enhanced by increasing the number of sanitary sewers treated for roots upon discovery and following up with CCTV investigations to ensure reduction of root intrusion. The Bureau is increasing the frequency of the use of a Rodder, purchased several years ago, in the pursuit of reducing root infestation in our sanitary sewer collection system. For this period there were 8 WIBs due to root infestation, and 1 SSOs due to root intrusion, which reflects the effectiveness of our standard operating procedures with regard to SSO occurrences, but WIBs are trending upward with regard to root intrusion. The Bureau is also addressing grease build up within the sanitary sewer mainlines. For this period, grease occurrences are relatively unchanged, showing that grease incidence remains problematic. The Bureau is continuing the use of grease blocks and solvent, for implementation in high frequency grease areas of the sanitary sewer collection system, in an effort to reduce occurrences of grease stoppages and blockages. For this period, the Bureau completed the delivery of "Grease Monster Kits", which were designed to inform the residents and/or customers of the challenges the Bureau faces when grease is intentionally disposed in our sanitary sewer collection system. High grease incidence areas were targeted in an effort to encourage our customers to dispose grease in the provided cannisters, not into drains leading to our sanitary sewer collection system. The effectiveness of this program is inconclusive. These measures are designed to aid in reducing stoppages, which lead to WIBs, which leads to Sanitary Sewer Overflow (SSO) occurrences due to grease build up. The Bureau must enhance its efforts to continue in the pursuit of reducing grease stoppage and blockage occurrences. For this period the Bureau is continuing to experience industrial users disposing of non-biodegradable and objectionable solids into the sanitary sewer collection system. Once the origin of these discharges is confirmed, supervision has served "cease and desist" warnings to these violators, which are designed to deter improper disposals of this nature. The Bureau is continuing to invest in the latest equipment, most advanced training and associated technologies in the pursuit of reducing grease incidents. The Bureau performs routine cleaning and CCTV investigations throughout the year in an effort to reduce blockages, stoppages and SSO occurrences, as well as, confirm the integrity of our sanitary sewers and assess the conditions of our sanitary sewer collection system; keeping spans opened to safely convey raw sewage to our reclamation facility for treatment. As per rules and regulations of the Ohio EPA with regard to our NPDES Permit, the Bureau has submitted its fifth MOM Program, which is designed to enhance the performance of our sanitary sewer collections system. It is the Bureau's goal to reduce sanitary sewer stoppages, lower WIB occurrences and ultimately reduce SSO frequency to ZERO in the years to come. For this period, the Bureau continues to perform proficiently.