



# Sanitary Sewer Overflow Annual Report

Division of Surface Water

**Date:** 3/16/20

**Facility name:** Department of Water, Water Utility Field Operations, Sewer Maintenance Bureau

**Ohio NPDES permit no.:** 1PF00000\*OD

**Period covered by report:** March 15, 2019 to March 15, 2020

**Contact person**

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**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:** \_\_\_\_\_

SSO Annual Report Table 1: SSO Identification		Ohio NPDES Permit No.: 1PF00000*OD	
Identification No. <sup>A</sup>	Location Description	Receiving Water <sup>B</sup>	Eliminated <sup>C</sup>
301-0102191250	626 Earl Av	Great Miami River-GML-56	
301-0105190940	Delphos Av & Fairbanks Av	Wolf Creek-WCR-16	
301-0107191031	2723 Lakeview Av	Great Miami River-GML-05	
301-0131191236	3580 Rojack Dr	Great Miami River-GML-05	
301-0207191647	Riverside Dr & E Parkwood Dr	Stillwater River-SWR-17	
301-0207192248	Xenia Av & Pritz Av	Great Miami River-GML-27	
301-0208191130	3972 Heatherstone Dr	Great Miami River-TGM-11	
301-0213191027	1001 Highridge Av	Lily Creek-LBR-02	
301-0215191223	1124 Leo St	Great Miami River-GML-56A	
301-0218192310	Germantown St & Dearborn Av	Great Miami River-GMR-05	
301-0220191135	5225 Rockport Av	Wolf Creek-TWCR-15	
301-0326191937	3018 W Riverview Av	Wolf Creek-WCL-20	
301-0328191054	5502 Haverfield Rd	Lily Creek-LBR-13	
301-0330191126	Germantown St & Gard Av	Great Miami River-GML-05	
301-0412191501	1048 Ottawa St	Mad River-MRL-02	
301-0415191236	Leo St & Milburn Av	Great Miami River-GML-56A	
301-0503190954	1878 Russet Av	Lily Creek-LCL-21	
301-0503191449	400 Dakota St	Wolf Creek-WCR-01	
301-0503190936	Xenia Av & Pritz Av	Great Miami River-GML-27	
301-0503191027	Riverside Dr & E Parkwood Dr	Stillwater River-SWR-17	
301-0607190945	2322 E Edwin C Moses Blvd	Great Miami River-GMR-14	
301-0625191738	1348 Harvard Blvd	Wolf Creek-WCL-11	
301-0818191624	Rangeley Av & N Smithville Rd	Lily Creek-LCL-02	
301-0922191904	3543 Otterbein Av	Wolf Creek-WCR-25-015	
301-1126190750	Bedford Av & Fairbanks Av	Wolf Creek-WCR-16	
301-1215191708	N Gettysburg Av & W Hillcrest Av	Wolf Creek-WCR-30	
301-1217191732	E Linden Av & Todd St	Great Miami River-GML-27	

- A. Assign each SSO location a unique identification by numbering them consecutively, beginning with 301.
- B. Enter name of receiving water. If an SSO enters a storm sewer, enter "SS to (name of receiving water)." If an SSO does not reach a receiving water, enter (None).
- C. If an SSO has been eliminated, enter the date of elimination (MM/DD/YY).

Use additional pages as needed.  
EPA 4238 (Rev. 6/14)

SSO Annual Report Table 2: SSO Event Information			Ohio NPDES Permit No.: 1PF00000*OD
Date <sup>A</sup>	Identification No. <sup>B</sup>	Receiving Water <sup>C</sup>	Volume <sup>D</sup>
01/02/19	301-0102191250	(302) Lucille Sewershed	0.0001[MG]
01/05/19	301-0105190940	(305) Wolf Creek Sewershed	0.0001
01/07/19	301-0107191031	(305) Wolf Creek Sewershed	0.00001
01/31/19	301-0131191236	(305) Wolf Creek Sewershed	0.0005
02/07/19	301-0207191647	(307) Upper Riverdale Sewershed	0.800
02/07/19	301-0207192248	(303) Southeast Sewershed	0.050
02/08/19	301-0208191130	(304) Miscellaneous Sewershed	0.0002
02/13/19	301-0213191027	(303) Southeast Sewershed	0.003
02/15/19	301-0215191223	(302) Lucille Sewershed	0.0005
02/18/19	301-0218192310	(305) Wolf Creek Sewershed	0.00001
02/20/19	301-0220191135	(305) Wolf Creek Sewershed	Unknown
03/26/19	301-0326191937	(305) Wolf Creek Sewershed	0.0001
03/28/19	301-0328191054	(303) Southeast Sewershed	0.0005
03/30/19	301-0330191126	(305) Wolf Creek Sewershed	0.0005
04/12/19	301-0412191501	(303) Southeast Sewershed	0.0005
04/15/19	301-0415191236	(302) Lucille Sewershed	0.0005
05/03/19	301-0503190954	(303) Southeast Sewershed	0.200
05/03/19	301-0503191449	(305) Wolf Creek Sewershed	Unknown
05/03/19	301-0503190936	(305) Wolf Creek Sewershed	0.400
05/03/19	301-0503191027	(307) Upper Riverdale Sewershed	1.600
06/07/19	301-0607190945	(304) Miscellaneous Sewershed	Unknown
06/25/19	301-0625191738	(305) Wolf Creek Sewershed	0.100
08/19/19	301-0818191624	(305) Wolf Creek Sewershed	0.0003
09/22/19	301-0922191904	(305) Wolf Creek Sewershed	0.0005
11/26/19	301-1126190750	(305) Wolf Creek Sewershed	0.001
12/15/19	301-1215191708	(305) Wolf Creek Sewershed	0.0001
12/17/19	301-1217191732	(303) Southeast Sewershed	0.0001
	27		3.15852 [MG]

- A. Enter date as “MM/DD/YY”. Enter “Various” to summarize overflows of less than 1000 gallons from an SSO location
- B. Enter the unique identification assigned in Table 1.
- C. Enter name of receiving water. If an SSO enters a storm sewer, enter “SS to (name of receiving water).” If an SSO does not reach a receiving water, enter “None”.
- D. Enter estimate of volume in MG (million gallons). Enter estimate of total volume if summarizing data.

Use additional pages as needed.



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. The Bureau has a 90-minute response time parameter to resolve all reported service requests and emergencies. For this calendar year WIB's decreased by eight (8) occurrences. A query of our data base generated a total of 46 WIBs in 2019 and none were directly related to Sanitary Sewer Overflows (SSOs). WIBs increased in the Southeast Sewershed to 25 WIBs in 2019, there were 22 WIBs in 2018; of the 25 WIBs there were no "other" blockages recorded. There were no WIBs in the Upper Riverdale Sewershed, there were 2 WIBs in 2018, with no other significant changes. In the Wolf Creek Sewershed, there were 16 WIBs in 2018 and 12 in 2019, decreasing by four occurrences, one (1) "other" blockage was recorded. After thorough investigation, the reason for the "other" blockages was debris, however, the type could not be distinguished. In the Miscellaneous Sewershed, there were 9 WIBs in 2018 and 3 in 2019, decreasing by six, no significant changes. In the Lucille Sewershed there were 3 WIBs in 2018 and 6 in 2019, increasing by three, and no "other" blockages were recorded. In the Northeast Sewershed there were 2 WIBs in 2018 and none in 2019, decreasing by two. In the Southeast Sewershed, there were six (6) SSOs due to extreme weather, grease, and debris. After investigation, three (3) of these SSOs were found to be associated with an overtaxed sanitary sewer due to inclement weather, the remaining occurrences were due to grease and debris. There were follow up investigations performed, which initiated needed and necessary maintenance activities in an effort to correct inadequacies with regard to our findings. The Engineering Group is in the process of addressing overtaxing sewers toward eliminating reoccurrences via modeling. There were two (2) SSO occurrences in the Miscellaneous Sewershed due to equipment failure and grease; occurrences decreased by two since 2018. There were fourteen (14) SSO occurrences in the Wolf Creek Sewershed, increasing by nine, due to equipment failure, inclement weather, deterioration, debris and grease; there were no significant changes in this sewershed since 2018. 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 were two (2) SSO occurrence due to extreme weather. The performance in this sewershed has improved, however, infiltration and inflow continue to negatively impact the performance of this area of the sanitary sewer collection system. In the Lucille Sewershed there were three (3) SSOs due to debris and grease; unchanging since 2018, there are no noticeable changes in this sewershed. It is the Bureau's intent to address these measures with enhancement of the following procedures. The Bureau has a standard operating procedure in place to treat all sanitary sewer mains for root growth, which has increased slightly during this period, and has been associated with causing stoppages, which could 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 seven (7) WIBs due to root infestation, and no SSOs due to root intrusion, which reflects the effectiveness of our standard operating procedures, but prompts additional measures to reverse this upward trend. The Bureau is also addressing grease build up within the sanitary sewer mainlines. For this period, grease occurrences are trending downward, which is showing improvement, however, 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 launched its sixth campaign of the "Grease Monster Program", which is 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. 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 is performing adequately in our efforts in addressing root intrusion. The Bureau must enhance its efforts to continue the reduction of grease stoppage and blockage occurrences. For this period the Bureau is experiencing users disposing of non-biodegradable and objectionable solids into the sanitary sewer collection system. Once the origin of entry 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 third MOM Program, which is designed to enhance the performance of our sanitary sewer collections system. It is the Bureaus' 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.