

**2017 ANNUAL  
SANITARY SEWER OVERFLOW (SSO) REPORT**

**Prepared by the  
Tuscarawas County Metropolitan Sewer District**

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**There were no documented SSOs in the following TCMSD systems in 2017**

- *Kerr WWTP and Sanitary Sewer Collection System*
- *Parral Sanitary Sewer Collection System*
- *Lowden Sanitary Sewer Collection System*
- *Port Washington Sanitary Sewer Collection System*
- *Sandyville / East Sparta Sanitary Sewer Collection System*
- *Stone Creek WWTP and Sanitary Sewer Collection System*

## **Section 1 – Press Release**

**Tuscarawas County Metropolitan Sewer District**

9944 Wilkshire Boulevard NE  
Bolivar, OH 44612

P: 330-874-3262

F:330-874-4203

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## **Press Release**

The Tuscarawas County Metropolitan Sewer District is pleased to announce that our 2017 Annual Sanitary Sewer Overflow (SSO) Report is available for public viewing at:

<http://www.co.tuscarawas.oh.us/Water&Sewer/2017SSO.pdf>

The purpose of this report is to provide a summary of all SSOs and their relative locations that occurred during 2017. In accordance with the permit requirements for our various sewer collection systems and wastewater treatment plants (WWTPs), as well as the provisions of the Clean Water Act, we are required to maintain our systems in good working order and operate as efficiently as possible to achieve compliance. In order to achieve compliance, we are tasked with the responsibility to prevent discharges to the waters of the state, surface of the ground, basements, homes, and buildings.

Our annual report provides information on how well we are progressing towards meeting the ultimate goal of eliminating SSOs. It also provides important education and outreach relating to SSOs and steps that the customer can take to help eliminate these occurrences.

**Section 2 - A Customer's Guide to Sanitary Sewer Overflows**

## **A Customer's Guide to Sanitary Sewer Overflows**

### **What is a Sanitary Sewer and what is its purpose?**

A sanitary sewer collects and carries household and industrial sewage from individual buildings such as homes and commercial businesses through a series of progressively larger sewer pipes called the "collection system". Separate sanitary sewer systems are not designed to carry rain water.

The primary purpose of a separate sanitary sewer is to protect public health and the environment. Raw sewage contains disease-causing organisms, which can make people sick if they become directly exposed. Raw sewage also can contain toxic chemicals and offensive odors. The sanitary sewer system carries the raw sewage away from homes to a treatment plant where most of the harmful organisms are destroyed, odors are controlled, and the level of toxic chemicals is reduced.

### **Why are Sanitary Sewer Overflows a Public Health, Environmental and Economic Problem?**

Sanitary Sewer Overflows (SSOs) occur when raw or partially diluted sewage is discharged from a sewer collection system before it reaches the sewage treatment plant. SSOs threaten public health because they can cause people to be directly exposed to disease-causing germs called "pathogens", such as E. coli, which are present in sewage. SSO's can also have negative impacts on the natural environment, causing poor water quality in lakes, rivers and streams, and polluting groundwater, which may be used for drinking water purposes. SSOs that result in basement flooding not only are unhealthy, but also are extremely unpleasant and costly to clean up. Where these chronically occur, property values may be reduced.

### **How Might You Be Contributing to the Problem of SSOs?**

Many property owners are not aware that the maintenance of the sewer line connection between a home and the main sewer line in the street is their responsibility. When poorly constructed or improperly maintained, these connections frequently cause raw sewage to back up in basements.

The connection of roof-gutter downspouts or sump-pump drains directly to the service lateral adds excess water to the main sewer lines, and can contribute to raw sewage being discharged into the streets and other public areas. Homes and small businesses, such as restaurants, can contribute to SSO's by disposing grease into the sewer line. When grease cools, it can form blockages, which then cause the sewer to overflow.

### **What Should You Do When You Identify an SSO?**

Make sure that people are kept away from the area of the overflow, typically a manhole cover. This is especially important for children and pets that may play near the overflow area (street, public park, or local stream). Report the overflow immediately to the Tuscarawas County Metropolitan Sewer District (330-874-3262). Precautions can then be taken to reduce the risk of public exposure to raw sewage by monitoring the impact of the overflow and ensuring proper cleanup.

### **What Can You Do to Prevent and Reduce SSOs?**

You can prevent and reduce SSOs if you...

- Make sure the basement sump pump does not connect to your sewage drain pipes or to a sink or floor drain in your basement. Such connections are illegal. The water from these pumps can overload the sewer causing it to overflow raw sewage into a stream, street, or someone else's basement.
- Inspect the gutters on your house or business to see if the down spout connects to a sewer line. Such connections are illegal. If the gutters are connected to the sewer line, have them disconnected. The runoff water from the roof can contribute to an SSO.

## **A Customer's Guide to Sanitary Sewer Overflows (cont'd)**

- Look for and check your sewer clean out. The clean out usually is a small pipe, about 4" in diameter, outside your house that is used to access the service lateral for cleaning the sewer line. You can find it near the house, where the service lateral comes out, and/or near the street, where the service lateral connects to the main sewer line. Make sure the cap to the clean out pipe is on and has not been damaged. Replace missing caps; otherwise, rain can get into the sewer line, causing it to overflow.
- Avoid pouring grease down your sink. When the grease cools in the sewer line, it can form clogs and blockages, which then can cause the sewer to overflow or back up into buildings. Grease can also contribute to restricted flow in your home plumbing and service laterals, resulting in costly repairs.
- Avoid planting trees and shrubs above or near the service lateral that runs from your home to the street. Roots can enter and clog sewers, causing them to back up and overflow.

### **Seven Terms for Better Understanding SSOs:**

**Infiltration** is water that enters the sanitary sewer system through pipe joints, line breaks or cracks.

**Inflow** is rainwater from roofs, pavements, yards, manholes and manhole covers that flows directly into a sanitary sewer.

**Service lateral** is the sewer pipe that connects a house to the main sewer line in the street.

**Sewer clean out** is the small pipe with cap located near the place in a house where the service lateral enters. The clean out is used to free blockages that may form in the service lateral.

**Pathogens** are organisms in raw sewage that cause diseases, including cholera, dysentery, hepatitis, and gastroenteritis.

**Manhole and manhole cover** are structures usually found in a street, parking area, or sidewalk that are used to provide access to the main underground sewer lines.

**Collection system** is the series of progressively larger pipes through which sewage is carried from homes and businesses to a treatment plant. The collection system includes service laterals and the main sewer lines.

**Section 3.1 – SSO Report for Wilkshire Hills Sanitary Sewer  
Collection System**



# Sanitary Sewer Overflow Annual Report

Division of Surface Water

**Date:** 3/28/2018  
**Facility name:** Wilkshire Hills WWTP  
**Ohio NPDES permit no.:** OPJ00008  
**Period covered by report:** 01/01/2017 - 12/31/2017

**Contact person**

**Name:** Justin R Angel  
**Title:** Superintendent  
**Mailing address:** 9944 Wilkshire Blvd. N.E.  
Bolivar, Ohio 44612  
**Telephone:** (330)874 - 3262  
**Email:** jangel.tcmsd@gmail.com

**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** Justin R Angel **Title:** Superintendent

**(typed):** \_\_\_\_\_

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

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







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

In 2017, the Wilkshire Hills Sanitary Sewer System had four reported Water In Basement occurrences. The Kerns Drive / S.R. 212 area each had one occurrence that was the result of an extreme wet weather event. One occurrence on S.R. 212 was the result of a grease blockage. This line was cleaned. One occurrence on Olde Orchard was the result of roots/deteriorating pipe. This line was cleaned and repairs were made.

**Section 3.2 – SSO Report for Midvale / Barnhill Sanitary  
Sewer Collection System**



# Sanitary Sewer Overflow Annual Report

Division of Surface Water

**Date:** 3/28/2018  
**Facility name:** Midvale / Barnhill Satellite Collections System  
**Ohio NPDES permit no.:** NA  
**Period covered by report:** 01/01/2017 - 12/31/2017

**Contact person**

**Name:** Justin R Angel  
**Title:** Superintendent  
**Mailing address:** 9944 Wilkshire Blvd. N.E.  
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**Telephone:** (330)874 - 3262  
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**Name** Justin R Angel **Title:** Superintendent

**(typed):** \_\_\_\_\_

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

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







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

**Section 3.3 – SSO Report for Renner/  
Willow Glens/Ridgewood  
Sanitary Sewer Collection System**



# Sanitary Sewer Overflow Annual Report

Division of Surface Water

**Date:** 3/28/2018  
**Facility name:** Willow Glens / Ridgewood Satellite Collection System  
**Ohio NPDES permit no.:** NA  
**Period covered by report:** 01/01/2017 - 12/31/2017

**Contact person**

**Name:** Justin R Angel  
**Title:** Superintendent  
**Mailing address:** 9944 Wilkshire Blvd  
Bolivar, Ohio 44612  
**Telephone:** (330)874 - 3262  
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**Name** Justin R Angel **Title:** Superintendent

**(typed):** \_\_\_\_\_

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

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







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

**Section 3.4 – SSO Report for Mineral City Sanitary Sewer Collection System**



# Sanitary Sewer Overflow Annual Report

Division of Surface Water

**Date:** 3/28/2018  
**Facility name:** Mineral City WWTP  
**Ohio NPDES permit no.:** OPB00053  
**Period covered by report:** 01/01/2017 - 12/31/2017

**Contact person**

**Name:** Justin R Angel  
**Title:** Superintendent  
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**Name** Justin R Angel **Title:** Superintendent

**(typed):** \_\_\_\_\_

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

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







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

In 2017 one Water In Basement occurrence was reported in the High Street area of Mineral City. This was due to an extreme wet weather event.

**Section 3.5 – SSO Report for Wainwright Sanitary Sewer  
Collection System**



# Sanitary Sewer Overflow Annual Report

Division of Surface Water

**Date:** 3/28/2018  
**Facility name:** Wainwright Satellite Collections System  
**Ohio NPDES permit no.:** NA  
**Period covered by report:** 01/01/2017 - 12/31/2017

**Contact person**

**Name:** Justin R Angel  
**Title:** Superintendent  
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**Email:** jangel.tcmsd@gmail.com

**Certification:**

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<b>Name</b>	Justin R Angel	<b>Title:</b>	Superintendent
<b>(typed):</b>	_____		_____
<b>Signature:</b>	_____	<b>Date:</b>	_____







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

