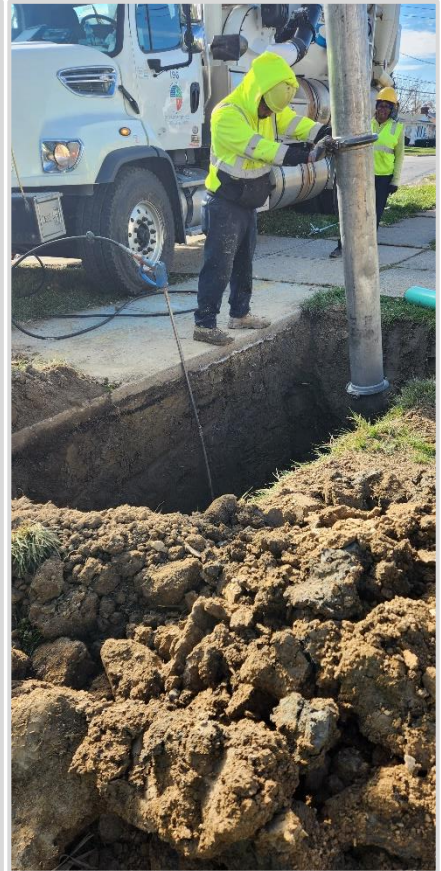




# 2023 Annual Report

Prepared for the: **City of Brooklyn**



By the: **Department of Public Works**





March 14, 2024

The Honorable Ron Van Kirk  
City of Brooklyn  
7619 Memphis Avenue  
Brooklyn, Ohio, 44144

Dear Mayor Van Kirk,

As the Director of Public Works, I am pleased to submit the 2023 Annual Report for the City of Brooklyn. Our work within the communities, including yours, focuses on addressing infrastructure needs and meeting Ohio EPA goals for collection system operation and maintenance. We continue to provide efficiency for sanitary and storm sewer maintenance throughout the County by maintaining a second shift to enable us to reduce overtime and to work in areas where normal working hour traffic is problematic. Our goal is always to provide a high level of service in a cost-effective manner.

Through the work of our dedicated staff members, we have been able to continue to provide reliable maintenance services throughout our service area and we will continue to provide quality service for our member communities throughout the year.

This annual report contains a detailed overview of the work completed within your community in the past year. The overview of the work performed includes the following: collection system jet cleaning and CCTV inspection history, plan approval status, service program summary details and community operating and capital expenses.

The annual report for this and previous years is also available on our website at:

<https://cuyahogacounty.gov/publicworks/services/sewer-maintenance-services>

The Rules and Regulations and Uniform Standards and Details issued by the County continue to be available on our web site:

<https://www.cuyahogacounty.gov/publicworks/services/design-and-construction/sanitary-design/sanitary-design-construction-drawings-and-standards>

My staff is available to meet with you at your convenience should you wish to discuss this report or any of the services that our department provides. I am pleased and grateful for the opportunity of serving you through the Cuyahoga County Department of Public Works.

Respectfully submitted,

Michael W. Dever, MPA, Director  
Department of Public Works

cc: (with attachments)

John Verba, Jr., Service Director  
Mike Henry, P.E., City Engineer



# The Power of Consolidation



2501 Harvard Avenue – Newburgh Heights

Sanitary Engineering, Road & Bridge & Fleet Management are consolidated at one location



The **Harvard Avenue Maintenance Yard facility** is home to approximately 180 staff members and is **geographically centralized in Cuyahoga County** to **better serve the surrounding communities.**

- Vehicle fueling areas for **Diesel, Electric and Gasoline**
- Fleet Maintenance Area features: **9 static lifts and 3 mobile lifts**
- Interior Vehicle Wash Bay
- LED Lighting for Interior Office, Garage, Exterior Parking Lot and Site Lighting
- Materials Storage Yard
- **Dispatch Area**
- **Permits Area**
- **ADA-compliant** design for all Office, Conference, and Training Room areas
- Conference and Training Rooms for up to **200 visitors**





# SANITARY FLEET FACTS

## THE POWER OF REGIONALISM



Current vehicles & equipment	Quantity
House Trucks	13
Specialized Plate Truck & specialized vehicles for catch basin repair	7
Combination Jet-Vac & Straight Jet Trucks	10
TV Camera Trucks	7
Backhoes, Mini Excavators & Rubber Wheel Loader	7
Class 5 Dump Trucks	6
Construction trucks	8
1-ton trucks for pump station service	5
43,000 to 53,000 GVWR single-axle dump trucks	6
58,000 to 60,000 GVRW tandem axle dump trucks	12
Class 550 with crane for pump station service	3
20-25 ton trailers	11
Small Trailers	13





# Table of Contents



Overview.....1

Appendix Description.....8

Community Streets Cleaned.....A-1

Community Streets Televised.....A-2

Plan Approval Status.....A-3

Service Report Summary.....A-4

Community Operating Expenses.....A-5

Community Capital Expenses.....A-6

Contact Information.....Rear Folio







## OVERVIEW

Established in 1919, the office of the Cuyahoga County Sanitary Engineer was created to provide administrative authority in matters of wastewater, storm water, and water supply management. In 2012, the Sanitary Engineering Division (formerly CCSE) became a part of the Cuyahoga County Department of Public Works (CCDPW), and now operates under County Executive Chris Ronayne.

The Sanitary Division's focus is on the maintenance and repair of aging sewer lines, sewer system needs assessment, engineering feasibility studies, and other infrastructure-related issues. These areas all have a direct impact on commercial and residential development, job creation, and expanding the tax base in the communities served by the Department of Public Works. Furthermore, the Sanitary Division is a major source of technical information for communities (mayors, municipal engineers, and service directors), which provides them with guidance for making infrastructure decisions within their community. The Sanitary Division has considerable experience in the maintenance, repair, and rehabilitation of sanitary and storm sewer systems, as well as significant expertise with respect to the operation and maintenance of pump stations and wastewater treatment plants.



The Sanitary Engineering Division of Public Works currently operates in 39 communities by agreement. Pursuant to such agreements, the Sanitary Division maintains more than 1,500 miles of sanitary sewers and 1,100 miles of storm sewers and operates 65 sewage-pumping stations. Working in cooperation with the Ohio Environmental Protection Agency (Ohio EPA), the Northeast Ohio Regional Sewer District (NEORS), the Cuyahoga County Board of Health (CCBH), and the various communities, the Sanitary Division works to maintain water quality. This is done through the construction of new sanitary sewers, maintenance of existing sewer systems, and the investigation and remediation of illicit discharges (sanitary sewage which is improperly discharged into storm sewers).

All funds used for operation, maintenance, rehabilitation, and repair of the sewerage system are generated through fees and assessments. (Funding is not via the County's General Fund to perform these activities.)

The Department of Public Works has been in the forefront of regionalism efforts within the County. With services provided to more than half of the County's 59 communities, the Sanitary Division continues to maintain reasonable rates and improve infrastructure throughout the area.



## GOALS

The Sanitary Engineering Division of Public Works has three (3) major goals:

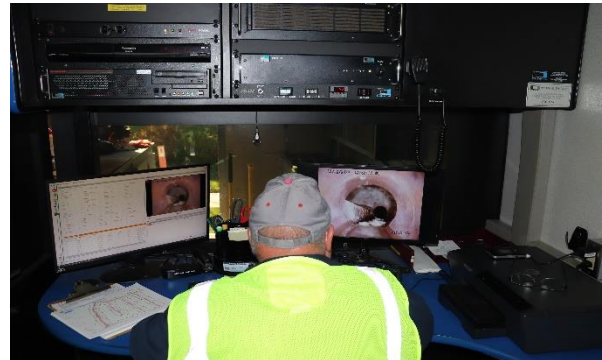


1. Operate and maintain the sanitary sewerage systems to assist the communities in meeting the goals and objectives of the EPA Capacity Management Operation and Maintenance (CMOM) guidelines.
2. Provide guidelines for design and construction through the County's "Uniform Standards for Sewerage Improvements" and "Rules and Regulations."
3. Issue sewer connection permits and provide construction inspection for new sanitary sewers and new connections to existing sanitary sewers.

The goals of the Sanitary Engineering Division with respect to the maintenance and repair of sewers are accomplished through the activities of our three main Sanitary Division groups working together: Maintenance Services; Engineering & Construction Services; and Administrative Services.

### **MAINTENANCE SERVICES**

- Reduction of the number of flooded basements by maintaining existing capacity in the collection systems, minimize the inflow/infiltration of storm water to the sanitary system, and evaluate the structural integrity of the sewerage system;
- Optimization of maintenance efficiency to reduce operating costs and provide more available funds for capital improvement projects and repairs;
- Maintenance and inspection of the existing collection system to achieve EPA CMOM maintenance goals;
- Operation and maintenance of pumping stations;
- Performance of Illicit Discharge Detection and Elimination Services





## ENGINEERING AND CONSTRUCTION SERVICES

- Preparation of Task Orders for repairs and rehabilitation;
- Plan review and approval of all new sewer improvements within the County service area;
- Performance of engineering analyses (required for operation of facilities and the collection system);
- Capital improvement planning;
- Construction management and inspection;
- Provision of guidelines for new construction through use of the *CCDPW Uniform Standards for Sewerage Improvements*;
- Provision of infrastructure needs assessment for communities;
- Project design;
- Construction inspection of new wastewater collection systems within the county service area; and,
- Record keeping of as-built plans and test tee locations.



## ADMINISTRATIVE SERVICES

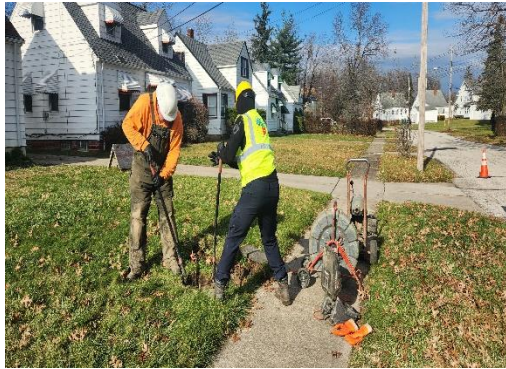
- Issuance of connection permits;
- Maintenance of Record Drawings;
- Provision of Geographical Information Systems (GIS) for development and implementation;
- Fiscal oversight of annual operating budget and capital improvement budget;
- Administration of Grants and loans; and,
- Licensing and permitting of more than 200 contractors.

## SUMMARY OF COUNTY-WIDE MAINTENANCE SERVICES

### SEWERS

- High-pressure jetting of sewers in the right-of-way, approximately **297 miles of sewers in 2023**
- Point repairs of sewers, force mains, and structures; **2,608 construction visits; and 1,715 catch basins cleaned;**
- **Cleaning of 8,647 service laterals**, including emergency maintenance and 24-hour on-call team for resident issues;
- **CCTV inspection** of approximately **226 miles** of sewers to provide condition ratings, failures and/or deficiencies;
- **I/I investigation and remediation, 232 visits;**
- Implementation of preventative maintenance and upgrades to pumping stations, as well as the provision of licensed operators to monitor the condition of those facilities.





The Maintenance Services Department provides a full-service program to clean sewers, provide National Association of Sewer Service Companies (NASSCO) Pipeline Assessment Certification Program (PACP) condition ratings of sewers, maintain the structural integrity of the sewer systems, and perform repairs on sanitary and storm sewers. The objective of the program is the cleaning of all sanitary sewers every three years and performing video inspection every six years. This timeline is well within the NEORS's "Best Management Practices" guidelines.

■ **HOUSE LATERAL SERVICES**

The Maintenance Services House Lateral Service Department cleaned 8,647 house lateral connections in 2023. The goal is to alleviate sewer back-ups by clearing blocked mains and cleaning service connections to restore sewer capacity.

The House Lateral Service Department also performs flow monitoring for Inflow and Infiltration (I&I) analysis, dye testing, smoke testing, and lateral sewer inspection to identify I&I sources and locations of illicit discharges. The Department works with the communities, the Ohio EPA and the NEORS to protect local waterways.





### ■ PUMPING STATIONS

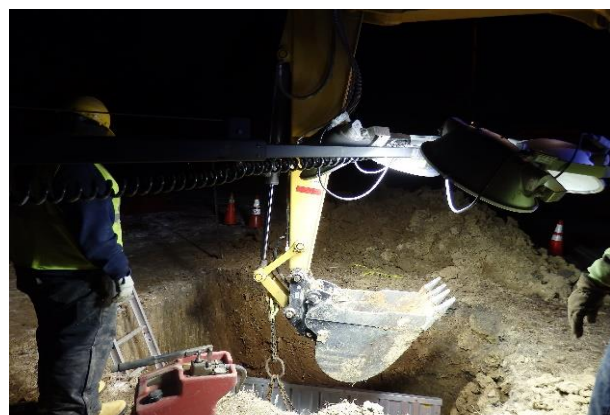
The County operates 65 pumping stations throughout the 39 communities pursuant to the maintenance agreements. A Supervisory Control and Data Acquisition (SCADA) system monitors the stations. The system provides alarms and operational status through a central computer, providing 24-hour monitoring. New pump stations are added to the SCADA system as they come on-line. Our maintenance staff consists of experienced operators and technicians enabling us to repair most problems in-house, therefore keeping costs down. Their preventive maintenance program and dedication to the job has reduced emergency callouts and overflows.



### ■ CAPACITY, MANAGEMENT, OPERATION, AND MAINTENANCE PROGRAM (CMOM)

The CMOM Program is a set of “best management practices” that have been developed by the industry and are applied over the life cycle of the sewer collection system. It is these general practices that are taken into consideration when a system is being reviewed by a federal or state agency. Improvement and recommendations are provided by the agencies based on deficiencies identified in the sanitary sewer system.

We continue to work with the NEORS (through their community discharge program) and with the Ohio EPA to ensure that our Sanitary Division’s best practices meet the CMOM goals.





## **SUMMARY OF ENGINEERING & CONSTRUCTION SERVICES**

The Engineering and Construction Services Departments provide technical services to the communities including, but not limited to, capital project planning, grant and loan administration, design engineering, construction management, as well as inspection of sanitary and storm sewers, and pump stations.

The sewer repair and rehabilitation program is managed by in-house personnel. A Sanitary Division engineer is assigned to each community to provide an individual contact for sewer related issues. Under the existing sewer maintenance agreements (based on video inspection information and requests from the communities), the County issues Task Orders for repair and rehabilitation by our personnel, supplemented by several third-party contractors.

In 2023, on behalf of member communities, design plans were reviewed for 50 construction projects. The Sanitary Engineering Division also coordinates and analyzes the results of field testing and flow monitoring to detect and eliminate storm water inflow/infiltration (I/I) from the sanitary sewer system and illicit discharges to the storm sewer system. Record drawings are prepared, scanned, and filed for record keeping. Information on new sewers and service connections is provided to our IT personnel for incorporation into the County's Geographical Information System (GIS).

The Sanitary Engineering Division and the Construction Department also oversee capital construction projects, including the development of financial packages in the form of grants and loans obtained from the State of Ohio. These funds are utilized for lining, repairing, replacing, and rehabilitating existing sanitary and storm sewerage systems.

The Construction staff provides inspection of all new sanitary sewers and for the connection of service laterals to existing sewers. The Inspectors ensure that projects are constructed in conformance to design plans, specifications, and the County's "Uniform Standards."





## SUMMARY OF ADMINISTRATIVE SERVICES

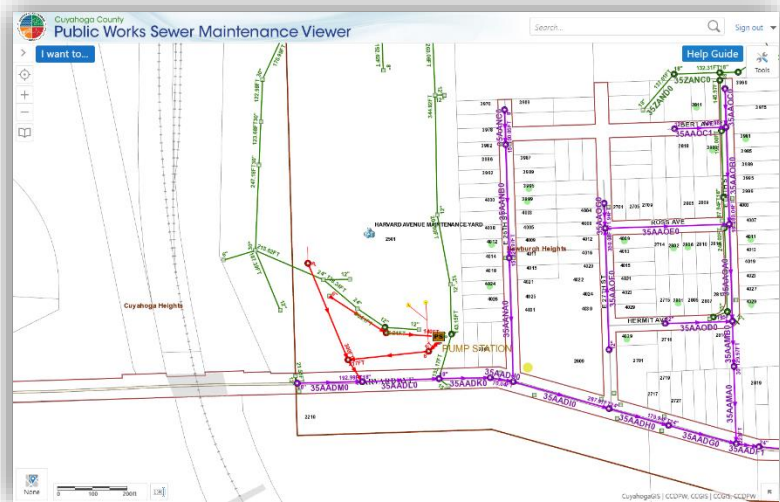
### ■ PERMITS

The County issues residential and commercial sewer service connection permits for 26 of the 39 communities with maintenance agreements. Only contractors registered with the Department of Public Works can obtain a permit. The permit process includes inspection by the County to ensure that the work is performed in conformance to the “Uniform Standards and Details”. Permanent records of all sewer connections are maintained by the County.

### ■ INFORMATION TECHNOLOGY

Information Technology (IT) provides computer and analytical support to internal end-users and to the communities serviced by the CCDPW. IT is responsible for the design, implementation, and maintenance of our Geographical Information System (GIS), other relational database systems, and guiding data acquisition tasks throughout the CCDPW. The GIS mapping program catalogues the location of sewer systems and performs analysis on spatial data. This information supports the planning, design, and maintenance of sewer systems, and ensures user fees are appropriately assessed and collected. Furthermore, the mapping program features access to information regarding permits that are on record.

Our Geographical Information System is continually being updated and expanded to include information on repair and rehabilitation activities as well as system maintenance and inspection activities. Information is shared between the County, member communities, and the NEORSRD to improve services and foster collaboration.



### ■ FINANCE

The Finance Department provides support services to various units within the CCDPW. Automated cost accounting programs and systems ensure accurate tracking and monitoring of expenditures, revenues, rate structures, and other data that provide financing for capital projects and operational budgets. All systems and programs are operated under generally accepted accounting principles. The CCDPW oversees an annual storm and sanitary sewer operating budget of more than \$33 million. Finance is responsible for accounts receivable, accounts payable, cost accounting, audit, inventory control, capital project financing, purchasing, and sewer assessment revenue management for member communities.



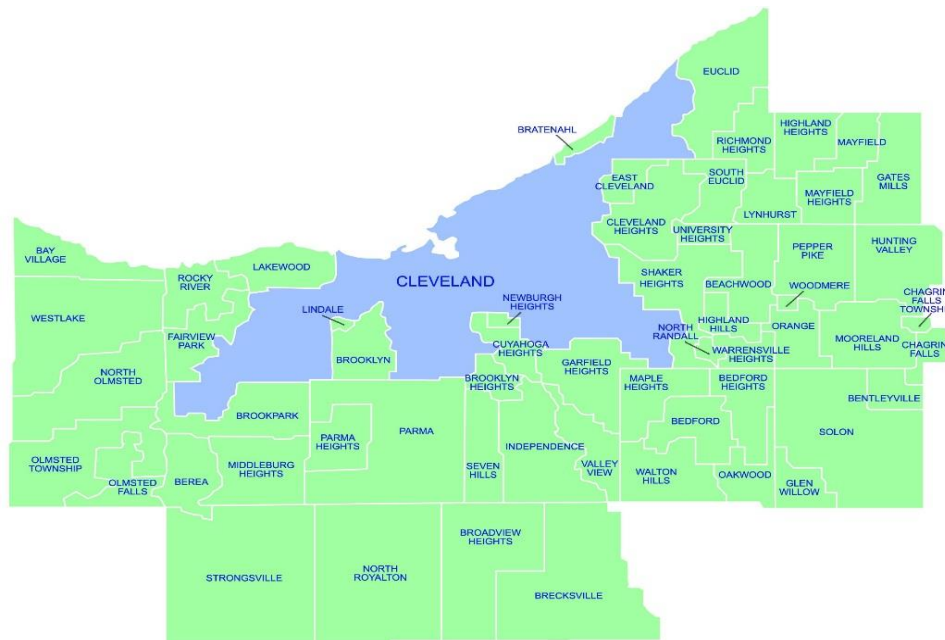


## Appendix Description\*

The following appendices contain a variety of reports representing the services provided to member communities in 2023. The CCDPW follows a manhole-to-manhole, sewer segment-based accounting method for jet cleaning and TV (video) inspection maintenance services. The first two appendices contain listings of the collection system cleaned and inspected for the year by street. The next appendix lists the plan approvals for the more significant projects submitted to, reviewed, and approved by the Engineering Department during the year for your community. Smaller review services such as house connections or ongoing, intermittent reviews of large multi-phase projects spanning several years of development are not shown in this report. The final appendices provide a breakdown of services including house visits, inflow/infiltration studies, construction activity, operating expenses, and capital project costs contracted for the community.

This annual report, along with a map showing areas where collection system mainlines were jet cleaned and TV inspected, locations where construction crew activities were provided, house visits where house lateral connections needed to be cleaned or inspected, is available on our website at <https://cuyahogacounty.gov/publicworks/services/sewer-maintenance-services/city-service-maps-annual-reports>. Adobe Corporation's free reader software is required and can be downloaded from [www.adobe.com](http://www.adobe.com).

**\* Please note:** These appendix reports are provided only to communities for which specific services are provided by the CCDPW. For example, if a regularly scheduled mainline cleaning service is not provided for your community, a map was not produced. Similarly, if project review or capital project management services are not provided for your community, then there is also no corresponding report. Furthermore, certain specific member communities are provided limited maintenance only on County improvement mainlines and/or facilities.





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# Community Streets Cleaned\*



## Section A-1

\*No service provided if section is blank

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## 2023 Collection System Jet Cleaning BROOKLYN

### SANITARY

Street Count: 42

STREET	Jet footage	# of segments
AMERICAN ROAD	989	4
ANSONIA AVENUE	2,764	9
APPLE CREEK DRIVE	550	2
BEECH AVENUE	295	2
BEHRWALD AVENUE	761	6
BENTWOOD DRIVE	2,585	9
BIDDULPH ROAD	250	1
BOXWOOD CIRCLE	429	2
BROOK HILL CIRCLE	299	1
BROOKPORT DRIVE	162	1
BROOKWAY LANE	949	3
CENTURY CIRCLE	719	3
CLINTON ROAD	629	3
DAWNCLIFF DRIVE	1,793	8
DAWNING DRIVE	267	1
EASTLANE DRIVE	444	3
ELIZABETH LANE	1,977	7
FOREST EDGE DRIVE	841	3
HAMMOND AVENUE	702	2
IVYWOOD DRIVE	1,301	5
MANOA AVENUE	1,477	4
MEMPHIS AVENUE	166	2
MEMPHIS VILLAS BOULEVARD	2,169	10
MEMPHIS VILLAS SOUTH	2,456	10
MORTON AVENUE	2,045	7
NORTHLANE DRIVE	527	2
ORCHARD AVENUE	2,791	9
OUTLOOK DRIVE	2,275	10
PEPPER RIDGE DRIVE	793	4
RABBIT RUN DRIVE	1,447	7
ROADOAN EASEMENT	565	2
ROADOAN ROAD	1,280	5
SAYBROOK DRIVE	1,016	7
SOUTHLANE DRIVE	1,097	4

**SANITARY- continued**

<b>STREET</b>	<b>Jet footage</b>	<b># of segments</b>
SOUTHWOOD DRIVE	1,387	5
SPRING CREST DRIVE	2,396	11
SUNSET OVAL	816	4
TORRANCE AVENUE	164	1
TRAIL RUN DRIVE	439	3
TRAYMORE AVENUE	257	1
WILLIAMSTON AVENUE	849	3
WINTER LANE	4,052	19
<b>JET SANITARY TOTAL:</b>	<b>49,170</b>	<b>205</b>

**STORM**

Street Count: 19

<b>STREET</b>	<b>Jet Footage</b>	<b># of segments</b>
APPLE CREEK DRIVE	504	2
BROOK HILL CIRCLE	301	1
BROOKWAY LANE	1,102	5
CENTURY CIRCLE	793	4
DAWN CLIFF DRIVE	1,025	4
MANOA AVENUE	798	3
MEMPHIS VILLAS BOULEVARD	1,158	5
MEMPHIS VILLAS	4172	29
OUTLOOK DRIVE	2,291	10
PEPPER RIDGE DRIVE	645	3
PEPPER RIDGE EASE	125	1
RABBIT RUN DRIVE	590	3
ROADOAN ROAD	1,430	5
SOUTHWOOD DRIVE	802	4
SPRING CREST DRIVE	1,660	7
SUNSET OVAL	1220	9
TORRANCE AVENUE	150	1
WESTBROOK DRIVE	1,051	4
WINTER LANE	3070	14
<b>JET STORM TOTAL:</b>	<b>22,887</b>	<b>114</b>

**2023 JET SANITARY & STORM GRAND TOTAL: 72,057 319**

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# Community Streets Inspected\*



Section A-2

\*No service provided if section is blank

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## 2023 Collection System TV Inspection

### BROOKLYN

#### SANITARY

Street Count: 35

STREET	CCTV Footage	# of segments
ANSONIA AVENUE	1,706	7
APPLE CREEK DRIVE	537	2
BEECH AVENUE	1,469	7
BEHRWALD AVENUE	1,017	5
BENTWOOD DRIVE	2,475	9
BOXWOOD DRIVE	443	2
BROOK HILL DRIVE	291	1
BROOKPORT DRIVE	405	3
BROOKWAY LANE	663	2
DAWN CLIFF DRIVE	1,817	8
EASTLANE DRIVE	264	2
ELIZABETH LANE	1,990	7
IVY WOOD DRIVE	556	3
MEMPHIS AVENUE	272	2
MEMPHIS VILLAS BOULEVARD	1,381	6
MEMPHIS VILLAS SOUTH	708	4
MORTON AVENUE	570	2
MORTON EASEMENT	286	1
NORTHLANE DRIVE	517	2
ORCHARD AVENUE	1,620	5
OUTLOOK DRIVE	1,884	8
PEPPER RIDGE DRIVE	905	6
RABBIT RUN DRIVE	798	4
ROADOAN ROAD	2,469	9
SAYBROOK DRIVE	1,030	7
SOUTHLANE DRIVE	551	2
SOUTHWOOD DRIVE	1,108	4
SPRING CREST DRIVE	1,438	7
SUNSET OVAL	186	1
TIEDEMAN ROAD	605	2
TRAIL RUN DRIVE	540	3
WESTBROOK DRIVE	747	3
WESTBROOK EASEMENT	765	2
WILLIAMSTON AVENUE	556	2
WINTER LANE	664	4

**CCTV SANITARY TOTAL:**

**33,233**

**144**

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**STORM**

Street Count: 8

<b>STREET</b>	<b>CCTV Footage</b>	<b># of segments</b>
BEECH AVENUE	1,363	5
CENTURY CIRCLE	793	4
MEMPHIS AVENUE	564	6
MEMPHIS VILLAS	4,172	29
MORTON AVENUE	1,536	6
ORCHARD AVENUE	1,602	5
SUNSET OVAL	1,220	9
WINTER LANE	3,070	14
<b>CCTV STORM TOTAL:</b>	<b>14,320</b>	<b>78</b>

**2023 CCTV SANITARY & STORM GRAND TOTAL: 47,553 222**



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# Plan Approvals\*



## Section A-3

\*No service provided if section is blank

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## 2023 Brooklyn Plan Approvals

Project ID	Project Name	Approval Date
23-029(1)	CUYAHOGA COUNTY PUBLIC LIBRARY - BROOKLYN BRANCH (STORM)	18-Oct-2023
23-029(1)	CUYAHOGA COUNTY PUBLIC LIBRARY - BROOKLYN BRANCH (SANITARY)	13-Dec-2023

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# Service Program Summary\*



## Section A-4

\*No service provided if section is blank

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## City of Brooklyn

<u>Type</u>	<u>Community Total</u>
Sanitary Sewers Manholes	189,486 Feet 792 (Approximately)

### 2023 Service Program

<u>Program</u>	<u>2023 Activity</u>
1) High Pressure Jet Cleaning Sanitary – 49,170 Feet Storm – 22,887 Feet	72,057 Feet
2) House Service	348 Calls
3) Television Inspection Sanitary – 33,233 Feet Storm – 14,320 Feet	47,553 Feet
4) Construction Activities	81 Job(s)
5) Dye Testing	0 Test(s)
6) Construction Permits Issued (Commercial) (Residential)	4 3
7) Plan Approvals	2 Plan(s)
8) Construction Inspection PUBLIC: Mainline & Lateral PRIVATE: Commercial & Residential	0 Feet 686 Feet
9) Catch Basins Cleaned	61

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# Community Operating Expenses\*



## Section A-5

\*No service provided if section is blank

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**City of Brooklyn**  
**2023 Operating Expenses**

<b><u>Activity</u></b>	<b><u>Cost</u></b>
1. Maintenance of Sanitary Sewerage Systems	\$598,115
2. Pump Station Operation and Maintenance	\$ 0
3. Engineering and/or Inspection	\$32,420
4. Capital Expenses (See Section A-6 if any)	\$4,211
 <b>Total Operating Expenses:</b>	 <b>\$634,746</b>

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# Community Capital Expenses\*



## Section A-6

\*No service provided if section is blank

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**City of Brooklyn**

**2023 Capital Expenses**

Sewer Repair Loan- OWDA \$4,211

**Total Capital Expenses: \$4,211**





## CONTACT INFORMATION

**Department of Public Works Administrative Headquarters**  
**2079 East Ninth Street - 5<sup>th</sup> Floor**  
**Cleveland, OH 44115**

Email: [Publicworks@cuyahogacounty.us](mailto:Publicworks@cuyahogacounty.us)

Website: [Publicworks.cuyahogacounty.us](http://Publicworks.cuyahogacounty.us)

<b>Michael W. Dever, M.P.A.</b>	Director of Public Works
<b>David Ray, P.E, P.S.</b>	Cuyahoga County Engineer
<b>Bryan J. Hitch</b>	Deputy Chief - Maintenance
<b>Thomas P. Sotak, P.E.</b>	Deputy Chief - Engineering
<b>Mellany M. Seay</b>	Finance & Operations Administrator
<b>Nichole L. English, P.E.</b>	Planning & Programming Administrator
<b>Laura A. Weber, P.E.</b>	Chief Section Engineer Sanitary
<b>Edward V. Premen, M.B.A.</b>	Business Services Manager Sanitary

**Department of Public Works**  
**Sanitary Maintenance Division**  
**2501 Harvard Avenue**  
**Newburgh Heights, Ohio 44105**

Dispatch Office	(216) 443-8201
Dispatch Email	<a href="mailto:PWDispatch@cuyahogacounty.us">PWDispatch@cuyahogacounty.us</a>
Administration	(216) 348-3867
Inspection & Permits	(216) 443-8209
Sewer Maintenance	<b>Gary Green, Senior Supervisor</b> (216) 443-8225
Sewer Maintenance	<b>John Gribble, Senior Supervisor</b> (216) 443-8227
Lateral Services	<b>Brandon Skufca, Supervisor</b> (216) 443-8226
Construction (EAST)	<b>Dave Novak, Supervisor</b> (216) 348-4238
Construction (WEST)	<b>Mitchell Holt, Supervisor</b> (216) 443-8229
Sewer Jetting	<b>Tom Noy, Supervisor</b> (216) 348-3901
Televised Inspection	<b>Todd Swindell, Supervisor</b> (216) 443-8224
Environmental Services	<b>Richard Krumreig, Manager</b> (216) 443-7798
Pump Station Operations	<b>Robert Dietrich, Supervisor</b> (216) 698-3566
Sewer Maintenance (2 <sup>nd</sup> )	<b>Steve Cooper, Supervisor</b> (216) 698-3535
Sewer Maintenance (2 <sup>nd</sup> )	<b>Pat Mauk, Supervisor</b> (216) 348-3849



## **Cuyahoga County** **Department of Public Works**

Administrative Headquarters  
2079 East Ninth Street  
Cleveland, OH 44115  
216.348.3800