



Cuyahoga County  
*Together We Thrive*

# 2020 Annual Report

Prepared for the: **Olmsted Township**



By the: **Department of Public Works**





March 19, 2021

The Trustees of Olmsted Township  
Olmsted Township  
26900 Cook Road  
Olmsted Township, Ohio, 44138

Dear Trustees,

As the Director of Public Works, I am pleased to submit the 2020 Annual Report for the Olmsted Township. 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 improve our 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.

The Covid-19 Pandemic affected our Public Works Department as it affected all communities in Cuyahoga County. Through the work of our dedicated staff members, we were able to continue to provide reliable maintenance services throughout our service area during this difficult time 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 municipality in the past year. The overview of the work performed includes the following: collection system jet cleaning and TV inspection history, plan approval status, service program summary details and community operating and capital expenses.

The report for this and previous years is also available on our website at <http://publicworks.cuyahogacounty.us/en-US/Sewer-Maintenance-Services.aspx>

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

<http://publicworks.cuyahogacounty.us/en-US/SanitaryDrawings-Standards.aspx>

<http://publicworks.cuyahogacounty.us/en-US/Sanitary-Design-Construction-Drawings.aspx>

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)

Eric Williams, Service Director  
Joseph Schaller, P.E., Engineer





# The Power of Consolidation

## 2501 Harvard Avenue – Newburgh Heights

Sanitary Engineering, Road & Bridge & Fleet Management have consolidated to one location



**The centralized Harvard Avenue Maintenance Yard is the successful consolidation of all staff previously located at the Canal, Brookpark and York Road facilities. This renovated facility is home to approximately 180 staff members.**

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





# 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	12
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	9
Class 550 with crane for pump station service	3
20-25 ton trailers	11
Small Trailers	13



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## 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 Armond Budish.

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 38 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, operates 65 sewage-pumping stations, and maintains two wastewater treatment plants. 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;
- Operation of wastewater treatment plants in compliance with the National Pollution Discharge Elimination System (NPDES) permit parameters;
- 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 335 miles of sewers in 2020;
- Point repairs of sewers, force mains, and structures; 2,855 construction visits; 1,817 catch basins cleaned;
- Cleaning of service laterals, including emergency maintenance and 24-hour on-call team for resident issues;
- TV inspection of approximately 304 miles of sewers to provide condition ratings, failures and/or deficiencies;
- I/I investigation and remediation, 359 visits;
- Implementation of preventative maintenance and upgrades to treatment plants and 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 D's "Best Management Practices" guidelines.

#### ▪ HOUSE LATERAL SERVICES

The Maintenance Services House Lateral Service Department cleaned 10,240 house connections in 2020. 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 D to protect local waterways.

#### ▪ PUMPING STATIONS

The County operates 65 pumping stations throughout the 38 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 call-outs and overflows.





- **WASTEWATER TREATMENT PLANTS**

The County operates two package wastewater treatment plants. The standards for each facility are set by the Ohio EPA through a National Pollution Discharge Elimination System (NPDES) permit. The support staff consists of wastewater operators, licensed by the Ohio EPA, who monitor the conditions of the plants and make necessary process adjustments to meet the requirements of each NPDES permit.



- **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, pump stations, and wastewater treatment facilities.

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 forces, supplemented by two third-party contractors.

In 2020, on behalf of member communities, design plans were reviewed for nearly 30 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 are 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 38 communities. 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 \$20 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.

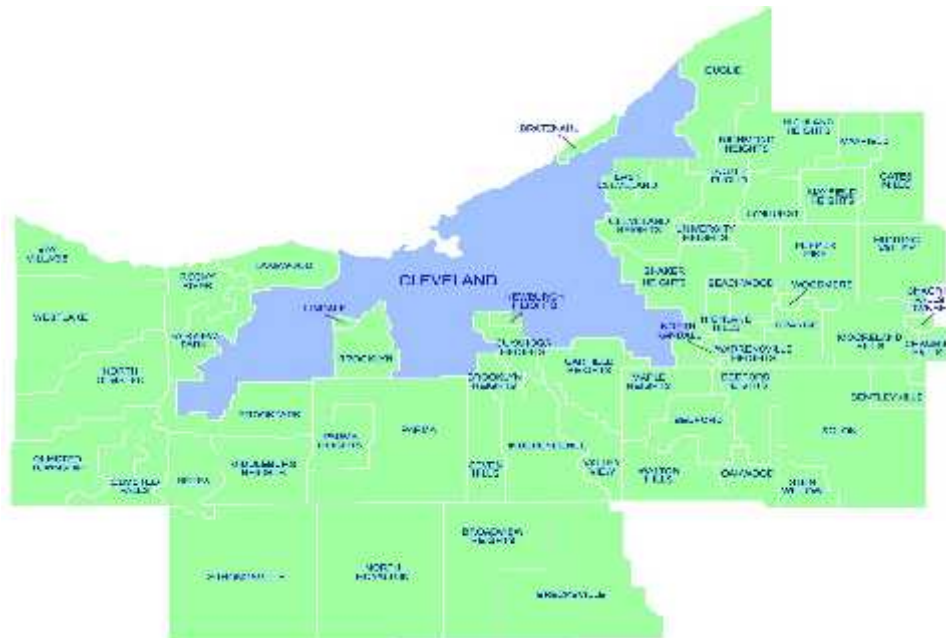


## Appendix Description\*

The following appendices contain a variety of reports representing the services provided to member communities in 2020. 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 review of large multi-phase projects spanning several years of development are not shown on 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, and locations where construction crew activities (e.g., house visits, and where house lateral connections needed to be cleaned or inspected) were provided, is available on our website at <http://publicworks.cuyahogacounty.us/en-US/Sewer-Maintenance-Services.aspx>. 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 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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## Collection System Jet Cleaning OLMSTED TOWNSHIP

### **SANITARY**

Street Count: 29

<b>STREET</b>	<b>Jet footage</b>	<b># of segments</b>
ADELE LANE	2,522	9
BARTON ROAD	922	3
BRONSON ROAD	4,065	13
COOK EASEMENT	440	2
COOK ROAD	6,711	22
DEER PATH EASEMENT	532	2
EASTWOOD LANE	2,312	9
ELIZABETH LANE	5,907	21
FITCH ROAD	975	7
GLEN HOLLOW LANE	1,503	8
GLENBROOK DRIVE	1,682	7
GRACE DRIVE	552	3
GREENBROOKE DRIVE	659	2
HEATHERWOOD CIRCLE	2,644	12
HUNTERS RIDGE LANE	2,358	11
MACKENZIE ROAD	2,527	10
MORNING DOVE LANE	420	4
OAKWOOD CIRCLE	1,648	7
OAKWOOD DRIVE	2,217	8
OXFORD PARK TRAIL	2,321	10
RIVERSTONE EASEMENT	376	1
SOUTHWOOD LANE	2,495	9
STEARNS ROAD	5,156	19
SUMMERSET DRIVE	210	2
TALL OAKS TRAIL	1,804	7
TIMBER LANE	2,085	10
WEDGEWOOD COURT	350	1
WESTWOOD LANE	1,820	7
WINDWOOD WAY	638	4
<b>JET SANITARY TOTAL:</b>	<b>57,851</b>	<b>230</b>

**STORM**  
**STREET**

Street Count: 7

	<b>Jet Footage</b>	<b># of segments</b>
BAGLEY ROAD	207	1
ELIZABETH LANE	4,237	15
EVERGREEN TRAIL	3,704	22
FITCH ROAD	827	3
OAKRIDGE DRIVE	238	2
SHADY ELM EASEMENT	170	2
SHADY ELM LANE	888	6

**JET STORM TOTAL: 10,271 51**

**JET SANITARY & STORM GRAND TOTAL: 68,122 281**



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# Community Streets Inspected\*



Section A-2

\*No service provided if section is blank

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## Collection System TV Inspection

### OLMSTED TOWNSHIP

#### **SANITARY**

Street Count: 26

<b>STREET</b>	<b>CCTV Footage</b>	<b># of segments</b>
ADELE LANE	2,302	9
BARTON ROAD	931	3
BRONSON ROAD	3,285	10
COOK EASEMENT	234	1
COOK ROAD	5,998	22
DEER PATH EASEMENT	531	2
EASTWOOD LANE	2,310	9
ELIZABETH LANE	2,456	11
FITCH ROAD	1,923	13
GLEN HOLLOW LANE	1,382	7
GRACE DRIVE	770	3
GREENBROOKE DRIVE	2,514	9
HEATHERWOOD CIRCLE	1,330	6
HUNTERS RIDGE LANE	1,848	9
OAKRIDGE DRIVE	212	1
OAKWOOD CIRCLE	1,798	7
OAKWOOD DRIVE	2,236	8
OXFORD PARK LANE	2,323	10
SHADY ELM LANE	933	5
SOUTHWOOD LANE	2,514	9
SWEET GUM TRAIL	747	1
TALL OAKS TRAIL	1,800	7
TIMBER LANE	1,463	6
WEDGEWOOD COURT	360	2
WESTWOOD LANE	2,136	8
WINDWOOD WAY	1,083	5
<b>CCTV SANITARY TOTAL:</b>	<b>45,419</b>	<b>183</b>

**STORM**

Street Count: 10

<b>STREET</b>	<b>CCTV Footage</b>	<b># of segments</b>
BARTON ROAD	785	2
BRONSON ROAD	824	3
FITCH ROAD	1,082	6
GREENBROOKE DRIVE	1,571	5
OAKRIDGE DRIVE	212	1
SHADY ELM EASEMENT	146	1
SHADY ELM LANE	764	5
SWEET GUM TRAIL	574	1
USHER ROAD	0.2	1
WEDGEWOOD COURT	360	2

**CCTV STORM TOTAL: 6,318 27**

**CCTV SANITARY & STORM GRAND TOTAL: 51,737 210**





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# Plan Approvals\*



## Section A-3

\*No service provided if section is blank

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## Olmsted Township Plan Approvals

Project ID	Project Name	Approval Date
19-023(1)	Jayna Reserve Subdivision (Columbia Township Subdivision tributary to Grand Oaks Pump Station)	3/20/2020

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# Service Program Summary\*



## Section A-4

\*No service provided if section is blank

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## Olmsted Township

<u>Type</u>	<u>Community Total</u>
Sanitary Sewers Manholes	193,632 Feet 853 (Approximately)

## 2020 Service Program

<u>Program</u>	<u>2020 Activity</u>
1) High Pressure Jet Cleaning <u>Sanitary</u> - 57,851 Feet <u>Storm</u> - 10,271 Feet	68,122 Feet
2) House Service	116 Calls
3) Television Inspection <u>Sanitary</u> - 45,419 Feet <u>Storm</u> - 6,318 Feet	51,737 Feet
4) Construction Activities	9 Job(s)
5) Dye Testing	24 Test(s)
6) Construction Permits Issued (Commercial) (Residential)	1 61
7) Plan Approvals	1 Plan(s)
8) Construction Inspection a) Main Lines Inspected b) Public R.O.W. Service Laterals c) Commercial/Residential Service Laterals	9 Feet - Feet 5,533 Feet
9) Catch Basins Cleaned	156

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# Community Operating Expenses\*



## Section A-5

\*No service provided if section is blank

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**Olmsted Township**  
**2020 Operating Expenses**

<b><u>Activity</u></b>	<b><u>Cost</u></b>
1. Maintenance of Sanitary Sewerage Systems	\$468,581
2. Pump Station Operation and Maintenance	\$79,932
3. Wastewater Treatment Plant Maintenance	\$ 0
4. Engineering and/or Inspection	\$500,557
5. Capital Expenses (See Section A-6 if any)	\$602,166
 <b>Total Operating Expenses:</b>	 <b>\$1,651,236</b>

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# Community Capital Expenses\*



## Section A-6

\*No service provided if section is blank

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**Olmsted Township**

**2020 Capital Expenses**

Barton/Bronson/Cook Loan	\$ 75,172
Bagley Road Loan	\$ 140,208
Breezewood Lining	\$ 191,679
Cook/Stearns Loan	\$ 32,839
Cook/MacKenzie Loan	\$ 41,027
Fitch Road Loan	\$ 103,070
Stearns Road Repair	\$ 18,171
<b>Total Capital Expenses:</b>	<b>\$ 602,166</b>





## CONTACT INFORMATION

**Cuyahoga County Department of Public Works**  
**2501 Harvard Avenue**  
**Newburgh Heights, OH 44105**

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>Thomas P. Sotak, P.E.</b> .....	Deputy Chief – Engineering
<b>Mellany Seay</b> .....	Finance & Operations Administrator
<b>Nichole L. English, P.E.</b> .....	Planning & Programming Administrator
<b>Bryan J. Hitch</b> .....	Deputy Chief - Maintenance
<b>Hugh Blocksidge, P.E.</b> .....	Chief Section Engineer Sanitary
<b>Edward V. Premen, M.B.A.</b> .....	Business Services Manager

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

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>Robert Dietrich, Supervisor</b> .....(216) 698-3566
Construction (EAST).....	<b>Dave Novak, Supervisor</b> .....(216) 348-4238
Construction (WEST).....	<b>Pat Mauk, Supervisor</b> .....(216) 348-3849
Sewer Jetting.....	<b>Tom Noy, Supervisor</b> .....(216) 348-3901
Televised Inspection.....	<b>Todd Swindell, Supervisor</b> .....(216) 443-8224
Pump Station Operations.....	<b>Don Cox, Supervisor</b> .....(216) 698-8482
Sewer Maintenance.....	<b>Brandon Skufca, Supervisor</b> .....(216) 443-8226
Sewer Maintenance.....	<b>Mitch Holt, Supervisor</b> .....(216) 443-8229

# Cuyahoga County

## Department of Public Works

2079 East Ninth Street | Cleveland, OH 44115 | 216.348.3800



Cuyahoga County  
Together We Thrive