Idlewild, Briggs, Blueprint Clintonville

THE CITY OF
COLUMBUS
ANDREW J. GINTHER, MAYOR

DEPARTMENT OF
PUBLIC UTILITIES

City of Columbus

Stormwater NPDES Permit

January 1, 2021 – December 31, 2021
(Ohio EPA Permit Number: 4PI00000*CD)

ANNUAL REPORT

CITY OF COLUMBUS
ANNUAL REPORT

AUTHORIZATION TO DISCHARGE UNDER THE NPDES (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM)

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. seq.) and the Ohio Water Pollution Control Act (Ohio Revised Code Section 6111), the City of Columbus is authorized by the Ohio Environmental Protection Agency, to discharge from all portions of the City of Columbus municipal separate storm sewer system, to waters of the State in accordance with the approved Storm Water Management Program, monitoring requirements, and other conditions specified in the permit.

January 1, 2021, through December 31, 2021: Ohio EPA Permit No. 4PI00000*CD

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John Newsome, P.E.
Administrator
Division of Sewerage and Drainage

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APPENDICES

SECTION 1 – NARRATIVE SUMMARY

1.1 Annual Report Format and Content

On March 17, 2012, the Ohio EPA issued permit No. 4PI00000*CD to the City in which conditions for the City's Stormwater Management Program were defined. Permit No. 4PI00000*CD became effective on May 1, 2012 and expired on April 30, 2017. Program activities from January 1, 2021, through December 31, 2021, were conducted under permit No. 4PI00000*CD, with approved modifications, and are summarized in the following report.

1.2 Overview

The City of Columbus (City) owns and operates the municipal separate storm sewer system (MS4) defined as a system of conveyances and controls designed or used for collecting, conveying, and controlling stormwater runoff. The MS4 has been constructed since the founding of the City with the primary purpose of conveying and controlling drainage from developed areas such that standing water or flooding does not result from frequent storm events. As the City has developed and regulatory requirements have changed, the MS4 has grown to consist of drainage related appurtenances including storm sewers, catch basins, curb inlets, junction chambers, manholes, culverts, headwalls and endwalls, stormwater pump stations, ditches, manmade channels, detention facilities and post-construction water quality capture facilities. The MS4 discharges to Big Walnut Creek, Alum Creek, the Olentangy River, the Scioto River, Hellbranch Run, Rocky Fork Creek, lesser named creeks, and unnamed tributaries to each.

A Table of Organization that summarizes the program elements and the responsible party for each element under the City's SWMP (Stormwater Management Program) is provided in Appendix A.

1.3 Description of Evaluation Process

The effectiveness of the City's stormwater management program is assessed primarily through tracking BMP implementation. The department verifies or tracks BMP implementation and determines how a management program is being implemented. It is the primary tool for developing most of the City's measurable goals.

In preparation of the Annual Report, the City compiles tracking information to provide quantitative evidence of the extent of implementation of the various program elements. Data analysis for this type of monitoring consists of an annual summary of the program data and evaluation of trends as appropriate.

1.4 Major Findings, Areas of Accomplishment, Areas Needing Improvement, and Future Direction

Table 1 summarizes the major findings, areas of accomplishment, areas of the stormwater program needing improvement and actions the City intends to take as part of its SWMP. More specific information about activities conducted during the 2021 reporting period is provided in Section 2.

Table 1
Summary of Major Findings, Areas of Accomplishment,
Areas Needing Improvement, and Future Direction

Program Element	Major Findings	Areas of Accomplishment	Areas Needing Improvement	Future Direction
Administrative	1. The City of Columbus annexed approximately 284 acres into the City's corporation limits in 2021.	1. Approximately 46 acres of land were annexed into the City of Columbus in 2020. Evaluation of these areas identified 14 home septic treatment systems, 1 stormwater outfalls, no industrial facilities, and 5 sites with post-construction water quality BMPs that were incorporated into the City's MS4 program.		With a new permit expected to be issued in 2022, the Stormwater Management Plan and several aspects of the program are expected to be revised.
Public Education and Public Involvement	1. The City's partnerships with local agencies, watershed groups and businesses continue to contribute to the success of our	In 2021, the City saw 1,482 participants in the GreenSpot Community Backyards program, which can assist residents with private property stormwater	The City continues to look for ways to measure the effectiveness of our stormwater education programs and the ways in which individual	2022 will bring an increased emphasis on equitable engagement and diversifying the face of our programs. The goal is to bring community leaders and

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Areas Needing Improvement, and Future Direction

Program Element	Major Findings	Areas of Accomplishment	Areas Needing Improvement	Future Direction
	stormwater education program. 2. Targeted campaigns and materials are aimed at specific stormwater quality issues and changing behaviors. In 2021 through the city's continue partnership with Franklin Soil and Water Conservation District, the City continued to provide backyard water conservation and education to Columbus residents and provided vouchers to assist individuals in implementing Stormwater BMPs on their own property. We also continued education about lawn	management. Emphasis on electronic promotion of programs and messaging continued as this allows wider distribution. Three virtual public meetings were held in 2021, all of which were very well attended by the community. Two issues of the Frankly Speaking newsletter were published, reaching approximately 5,000 Columbus residents. Topics included native plants, streamside buffers, Hellbranch Meadows stream and wetland restoration, conservation mini-grants, GIS watershed mapping, milkweed seed pod collection, and the importance of wetlands.	behaviors change as a result of outreach.	organizations from the opportunity neighborhoods to the table.

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Areas Needing Improvement, and Future Direction

Program Element	Major Findings	Areas of Accomplishment	Areas Needing Improvement	Future Direction
	care practices; materials on proper paint/cement products disposal were distributed to small residential contractors and trades associations to prevent pollution from entering the storm sewer system.			
Illicit Discharge	1. Columbus Pubic Health (CPH) took action to correct 108 violations that were discovered in 2021. 39 violations were corrected, with 0 properties proceeded to enforcement through environmental court. 2. CPH had 1 property slated for remediation through a WPCLF Loan.	1. In 2021, 9 HSTSs connected to the sanitary sewer system via a loan from the Septic Tank Elimination Program (STEP). 2. CPH issued orders to connect 22 properties to available sewer. 3. Six sewer extension projects identified by a prioritization process are in various stages of		1. The City will continue to promote its STEP program in an effort to assist qualifying homeowners with abandonment of their HSTSs. 2. Columbus Public Health (CPH) will continue to issue tap orders to HSTS owners located near an accessible sanitary sewer.

Table 1
Summary of Major Findings, Areas of Accomplishment,
Areas Needing Improvement, and Future Direction

Program Element	Major Findings	Areas of Accomplishment	Areas Needing Improvement	Future Direction
	3. CPH received 18 sewage complaints that resulted in 5 Notices of Violation with Orders to Correct. All 5 of the Notices of Violation were corrected.	planning, two are read to bid, and one is in active construction. 4. Conducted 294 half-day Food Service Programs to educate restaurant employees about prevention of illicit discharges during parking lot and dumpster cleaning, and conducted 14 full-day Food Service Program training sessions. These programs were attended by 252 restaurant employees. 5. CPH again applied for and received $150,000 from the OEPA's Water Pollution Control Loan Fund		3. Sanitary sewer extension projects in various phases of design and construction will provide access to approximately 300 properties with existing HSTSs by 2025.

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Areas Needing Improvement, and Future Direction

Program Element	Major Findings	Areas of Accomplishment	Areas Needing Improvement	Future Direction
		(WPCLF). During 2021 CPH used $25,533.37 from the WPCLF loan to connect 1 failing HSTS to the sanitary sewer.		
Construction	Over the past fifteen years a total of 67,201 site specific sediment and erosion control construction inspections have been performed in the City of Columbus. The average number of SWP3 inspections per year has been 4,480.	The Stormwater Drainage Manual was revised to include requirements for surety bonds prior to the construction of sediment basins and professional surveys to verify adequate volume after construction.	It is anticipated that the next permit will require more frequent inspection of non-compliant sites. To meet these time frames the prioritization of inspection frequency for all sites must be reconsidered.	Development of forms to complete inspections using phone- or table-based apps in coordination with deployment of a new computerized maintenance and asset management system that fully integrates with our GIS datasets is planned.
Post Construction	The completion of a comprehensive inspection and maintenance guidance manual will benefit designers, owners, and inspectors. In addition, new trainings based on	1. 124 inspections of newly constructed sites with BMPs were performed. 2. The City utilized a private vendor to perform maintenance work at	The resignation, transfer, or retirement of 80% of staff focused on post-construction posed a significant challenge to the program. Improvements in hiring and retention	Continued refinement to the inspection of stormwater control practices during construction combined with several other administrative controls will reduce the amount

Table 1
Summary of Major Findings, Areas of Accomplishment,
Areas Needing Improvement, and Future Direction

Program Element	Major Findings	Areas of Accomplishment	Areas Needing Improvement	Future Direction
	this information will improve the overall success of the program.	650 city-owned bioretention facilities. 3. The development of inspection forms that can be completed using a phone-based app was completed. 4. The Stormwater Drainage Manual was revised to include requirements for surety bonds prior to construction, professional certification after construction, easements for access to maintain stormwater control practices, and recorded maintenance agreements to ensure future owners	will be needed to replace and maintain personnel.	of resources needed to correct old construction issues and allow efforts to be focused on ensuring proper maintenance. As new staff are hired the program will look to deploy the app-based inspection forms.

Table 1
Summary of Major Findings, Areas of Accomplishment,
Areas Needing Improvement, and Future Direction

Program Element	Major Findings	Areas of Accomplishment	Areas Needing Improvement	Future Direction
		are aware of their responsibilities.		
Good Housekeeping/Pollution Prevention	A complete review of all facilities was completed. A total of 46 were identified as requiring a SWPPP, a large decrease from previous reporting. A total of 100 sites remain in the program.	New procedures for annual inspection of all City facilities by DPU personnel were created.	Resignations and challenges in hiring replacement staff interfered with full implementation of the revamped program for City facilities in the GH program.	Continue implementation of the formal process for annual inspection of all identified City facilities by DPU personnel.
Industrial and Related Facilities	1. The number of Category 1 industries decreased this reporting period since 8 industries were removed from the City's inventory and no industries re-applied for coverage under OEPA Multi-Sector General Permit along with 5 industries that applied for coverage under OEPA No	2 No Exposure Certifications and 1 Industrial General Permits were acquired.		The City will schedule appointments with Ohio EPA throughout 2022 to retrieve copies of NOIs, General Permit confirmation numbers, and No Exposure application and confirmation letters for industries in its inventory.

Table 1
Summary of Major Findings, Areas of Accomplishment,
Areas Needing Improvement, and Future Direction

Program Element	Major Findings	Areas of Accomplishment	Areas Needing Improvement	Future Direction
	Exposure Certification. 2. Zero (0) No Exposure Certification exemptions have expired during this reporting period.			
Wet Weather Monitoring		NPDES-qualifying samples were acquired during all four quarters at each of the four monitored sites.		The City will complete the current monitoring program in 2022 while planning for a new program focused on sampling at outfalls that receive discharge from septic systems.

SECTION 2 – ASSESSMENT OF BEST MANAGEMENT PRACTICES

The SWMP is an on-going effort to reduce pollutant discharges from the MS4 to the maximum extent practicable. BMPs developed and implemented by various city departments and divisions in response to requirements specified in past and current MS4 permits are evidence of this effort. Compliance tasks are conducted and coordinated by the Department of Public Utilities, Division of Sewerage and Drainage, Stormwater and Regulatory Management Section. Based upon specific SWMP goals, compliance activities are delegated to different departments or divisions including Department of Public Service, Department of Public Safety, and Department of Recreation and Parks. Each of these departments administers practices targeted at reducing pollution from stormwater runoff. The City of Columbus continues to develop and improve a comprehensive employee training program, increase public awareness, foster inter-governmental and inter-community cooperation, and promote the improvement of stormwater runoff in local watersheds.

Ohio EPA permit 4PI00000*CD requires the City to develop and report on the implementation of BMPs and measurable goals for each element of the City's SWMP. The objective of stormwater BMPs is to control the quality and/or quantity of stormwater runoff to reduce the adverse impact on local receiving waters. BMPs are generally described as activities, regulation of practices, maintenance, structural controls, and management practices and procedures used to prevent or reduce the release of pollutants or otherwise prevent adverse impacts to surface waters. The following tables outline the BMP and measurable goal implementation status for each program component in the SWMP.

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION
SWMP Component: Identify Target Pollutants

BMP PE1– Targeted Public Education Themes				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period[1]:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Distribute educational materials to reach at least 20% of city residents each year.	Bill inserts containing stormwater messages were distributed to over 280,000 ratepayers in both hard copy and electronic format via the DPU online billing portal. Enrollment in the portal rose at the start of the pandemic, as customers who previously paid in person utilized alternatives due to in-person payment locations being closed. The actual number of hard copy inserts delivered by mail to customers in 2021 ranged roughly between 227,000 and 241,000, but all online customers continue to receive either a pdf attachment of the quarterly inserts or a direct link to those inserts within their billing statements.	X		
2. Publicize at least 20 stormwater education messages annually using social media.	200+ stormwater education messages were published and cross-promoted on DPU, GreenSpot, and Blueprint Facebook pages, and periodic messages were shared via Twitter.	X		
3. Review the list of targeted themes and audiences in Table 2-1 during preparation of the City's annual compliance report to Ohio EPA.	The list of targeted themes was reviewed and discussed with a focus on synthesizing messaging where audiences overlap and enhancing electronic resources to ensure	X		

[1] See Appendix B for detailed summary of Public Education and Outreach activities.

BMP PE1– Targeted Public Education Themes				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period[1]:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
	information is easy to access and fully integrated. These efforts will continue in 2022.			
4. Continue pet waste campaign. Install and maintain signage and kiosks in parks.	378 residents pledged to pick up after their dog in 2021. The pet waste stations (with bags) installed in parks across the city and around the reservoirs were maintained and repaired throughout the year.	X		
5. Develop yard maintenance program in 2015 and begin implementation in 2016.	The Get Grassy program continues to promote best management practices for homeowners and has partnered with 6 lawn care companies across Franklin County, including 2 new companies in 2021, Mars Irrigation and Lawn Doctor. 3,760 flyers were supplied to local lawncare companies. A lawnmower exchange (sponsored by Public Health, City of Columbus, and Lowe's Home Improvement) was attended and staffed on May 18, 2021. Approximately 45 individuals were reached with information about lawn care practices. In 2021, there were 116 total pledges across Franklin County, of that a total of 81 total pledges in the City of Columbus. Participants received a rain gauge or bamboo stake and are entered into a drawing for $10 gift cards to local garden centers. 7 participants won gift cards in 2021.	X		

BMP PE1– Targeted Public Education Themes				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period[1]:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
6. Continue GreenSpot Backyard Conservation and rain barrel cost share program.	66 Columbus residents attended a workshop and 1,416 completed an online course on causes and prevention of stormwater pollution. Each resident was eligible to receive a rebate on a rain barrel, compost bin, native plants, or a tree.	X		
7. Establish grant program for watershed organizations to promote green infrastructure credit and develop a mandatory training course as part of grant eligibility.	One new application was received in 2021 for stormwater credits involving green infrastructure.	X		
8. Continue public education through the Utility Update and GreenSpot application, outreach activities, webinars and social media.	GreenSpot recruited 1,365 new members in 2021 members/nonmembers participated in our GreenSpot Conversations webinar series where they learned about the health of the Olentangy River and measures they can take to conserve and protect it. They learned about WaterSense and how to save water at home. They learned about how to save water in the bathroom. Social media messages covered these topics as well as washing the car over grass (or at a commercial car wash), picking up pet waste, installing rain gardens/rain barrels and reducing the amount of fertilizers, pesticides, and herbicides used on the lawn were discussed. We teamed up with the Ohio Hispanic Coalition and Ethiopian Tewahedo Social Services to distribute our GreenSpot and the Dots kids book and gave a	X		

BMP PE1– Targeted Public Education Themes				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period[1]:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
	presentation to adults on sustainability (including saving water) that they provide services to. We teamed up with Sierra Club on Plastic-Free July which not only reduces waste but keeps plastic out of the waterways.We included water conservation tips in our enewsletters. GreenSpot teamed up with Sustainable Steps and Green Columbus to give away 350 tress (trees were about 6-7ft tall). 27 local businesses became GreenSpot members in 2021 and have committed to or have already taken steps that have a positive influence on reducing stormwater runoff and/or allowing more natural filtering to take place. A list of local businesses who have committed to take action to reduce stormwater runoff is provided in Appendix D. GreenSpot continued its commitment to the US EPA WaterSense program. As a signer we promote WaterSense through social media. As part of GreenSpot's Corporate Sustainability Initiative, the City's Pretreatment Program Manager presented information to 4 businesses on fats, oils and grease, stormwater pollution prevention, spill prevention control and counter control measures and green infrastructure. Participants learned about illicit connections, proper container storage, proper waste storage, proper			

BMP PE1– Targeted Public Education Themes				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period[1]:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
	vehicle parking/storage, and site pollution prevention actions. Blueprint Columbus continued to refine and distribute educational resources to residents about stormwater management and green infrastructure practices. The Outreach Team posted updates/fun facts about green infrastructure and/or stormwater management, which received 7,748 impressions. The Blueprint Outreach Team also launched a targeted, paid social media campaign to increase awareness regarding free sump pumps available to residents in active project areas. The website for Blueprint neighborhoods had over 3,500 visitors by the end of the year. 3,760 Get Grassy! flyers were supplied to local lawncare companies. In September, 13 Chamber of Commerce businesses were contacted with phone call and letter. 2 new companies were recruited including Mars Irrigation and Lawn Doctor. Marketing and outreach materials were sent to TruGreen for review at regional level. Meeting attended on October 12, 2021, to discuss wider information sharing and support.			

BMP PE1– Targeted Public Education Themes

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period[1]:	Measurable Goals Achieved?		
		Yes	**No**	**Other**
9. Identify power washer companies and create/distribute educational information starting in 2015.	40 power washing companies were contacted in 2021 and provided educational information on containment and proper disposal of generated wastewaters.	X		
10. Continue working with Columbus Public Health's (CPH) Food Protection Program to distribute FOG educational information.	The City conducted an annual FOG training for CPH employees. 3,053 FOG inspections were performed at licensed Food Service Establishments.	X		

Planned Activity for Next Reporting Period:	A new permit is expected to be issued in 2022, and a review of measurable goals will be initiated thereafter.
Discussion:	GreenSpot continues to engage the community through speaking engagements and tabling (having a booth at an event). 2021 saw 32 presentations by GreenSpot. Another Sustainability Initiative class was started in the fall of 2021 and there have been regular social media postings. GreenSpot Neighborhood and Clintonville was engaged on water conservation and protection actions such as promoting water conservation tips, giving away 20 household water saver kits, native tree and flower plantings along with installing rain barrels. They also worked with Fire Station 19 on tearing out non-native landscaping and prepped the area for native planting in the spring of 2022. 200 New Home Owners green guides were distributed to populations served by the Ethiopian Tewaheda Social Services (ETSS) and the Ohio Hispanic Coalition. The guide has a water protection and conservation section. Additionally ETSS and the Ohio Hispanic Coalition gave a virtual presentation of the GreenSpot Home to 200 adults. This presentation has several slides on ways to conserve water. We look to continue the partnership with ETSS and OHC in 2022. Organizations that have demonstrated successes in conserving and protecting water were recognized at our virtual

BMP PE1– Targeted Public Education Themes				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period[1]:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
	GreenSpotLight Awards Celebration, and water conservation/protection messages were included in the GreenSpot eNewsletters and on social media. Blueprint continues to develop new educational materials and investigate ways to engage residents with the green infrastructure installations to increase awareness and appreciation of these features. This includes collaboration with community gardening groups/civic agriculture and increased engagement with schools in Blueprint neighborhoods. We have expanded our outreach team and are planning targeted social media campaigns and more diverse marketing to engage the community in new ways.			

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION

SWMP Component: Proper management and disposal of used oil and toxic materials

BMP PE2 – Educate Auto Repair Businesses and General Public about Vehicle Fluids and Tire Recyclers

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Publicize locations of recyclers of used oil and tires through SWACO.	1. Instructions on how to properly dispose of used tires and motor oil are posted on the SWACO web site: http://www.swaco.org/Residents/disposal-information.aspx 2. Household hazardous waste (HHW) recyclers, dates and locations of HHW drop off events coordinated by SWACO are posted on the SWACO web page: http://www.swaco.org/Residents/HouseholdHazardousWaste.aspx 3. Information on HHW disposal and link to SWACO site available on Division of Refuse web page within the Columbus Public Service Department: http://www.columbus.gov/Templates/Detail.aspx?id=64642	X		

Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.
Discussion:	

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION

SWMP Component: Inform individuals of proper disposal of household hazardous and toxic materials

BMP PE3/PI5 – Educate General Public about Household Hazardous Wastes and Drop Off/Collection

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Publicize locations of collection and recyclers of household hazardous waste (HHW) through SWACO.	Publicized location of HHW drop off locations and times through the Solid Waste Authority of Central Ohio (SWACO), which coordinates HHW events in Franklin County. SWACO HHW web page is: http://www.swaco.org/Residents/HouseholdHazardousWaste.aspx. This page also is accessible through a link on the Division of Refuse web page within the Columbus Public Service Department http://www.columbus.gov/Templates/Detail.aspx?id=64642	X		
2. In cooperation with SWACO, conduct annual HHW drop off events each year.	1. Zero HHW drop-off events were conducted in 2021. 2. The City maintains a permanent HHW drop-off facility at 645 E. 8th Avenue.		X*	
3. Track amount of HHW collected per year.	Collected 213 tons of HHW.	X		

Planned Activity for Next Reporting Period:	A new permit is expected to be issued in 2022, and a review of measurable goals will be initiated thereafter.
Discussion:	* The resources for HHW collection continue to be focused on the permanent drop-off facility.

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION
SWMP Component: Residential Lawn Care Program

BMP PE4 – Educate Lawn Care Businesses and General Public About Lawn Chemicals and Yard Waste				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Include in the stormwater edition of the Utility Update distributed to 310,000 rate payers.	The Spring stormwater edition included six tips on ways to care for yards in a way that prevents pollutants from entering waterways.			X*
2. Develop yard maintenance nutrient management program in 2015 and begin implementation in 2016.	Through the Get Grassy! campaign, 81 Columbus residents pledged to maintain their yards and manage nutrients in a way that benefits water quality. 3,760 flyers were supplied to Bio Green, Davey Resource Group, Mutters & Deep, and Once Call Lawncare in June for distribution to the public, and digital resources were provided to Good Nature Lawncare and TruGreen. Get Grassy! Marketing and outreach materials were sent to TruGreen for review at regional level and FSWCD attended a meeting on October 12, 2021, to discuss wider information sharing and support. A lawnmower exchange (sponsored by Public Health, City of Columbus, and Lowe's Home Improvement) was attended and staffed on May 18, 2021. Approximately 45 individuals were reached with information about lawn care practices.	X		

BMP PE4 – Educate Lawn Care Businesses and General Public About Lawn Chemicals and Yard Waste

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
	Get Grassy! Took part in the Ohio Turfgrass Foundation Tradeshow on December 7-9, 2021, at the Convention Center.			
3. Publicize City's yard waste collection/recycling program offered through the Division of Refuse.	1. Publicized recycling tips for homeowners through the Division of Refuse website at: http://www.columbus.gov/RecyColumbus/ while highlighting/promoting the city's new curbside recycling program through our Facebook page. 2. Publicized yard waste residential collection program through the Division of Refuse website at: http://www.columbus.gov/yardwaste/ 3. Shared several social media reminders about the availability of yard waste collection as well as the benefits to stormwater quality.	X		

Planned Activity for Next Reporting Period:	Planned Activity for Next Reporting Period: Get Grassy! will continue to focus on identifying additional outlets and strategies to distribute messaging and reach new individuals. The program will expand lawncare education into opportunity neighborhoods by collaborating with community leaders and organizations already serving disadvantaged residents. Get Grassy! Will continue to collaborate with the GreenSpot New Americans program, and develop additional educational videos to promote through social media and other electronic channels.
Discussion:	* Following a significant increase in utilization of the online billing portal at the start of the pandemic, 2021 saw stabilization in online vs. hard copy billing numbers. The number of customers who received physical, hard copy inserts in 2021 ranged roughly between 227,000 and 241,000. All customers continue to receive either a hard copy of the insert (via postal mail), an electronic/pdf

BMP PE4 – Educate Lawn Care Businesses and General Public About Lawn Chemicals and Yard Waste				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
	version of the insert (via the billing portal) insert, or a direct link to those inserts (also via the billing portal). Additionally, all stormwater-related information and guidance provided within these inserts remains available 24/7 on the department's website; topics are seasonally highlighted as appropriate and are also periodically emphasized through social media.			

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION

Required SWMP Component: Create opportunities for citizens to participate in the implementation of stormwater activities.

BMP PE5 – Develop and Implement Program Assessment Mechanisms				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Track the number, types and locations of new GreenSpot signups annually and evaluate trends over time.	New GreenSpot businesses fell into these types: 15 offices, education, nonprofits; 9 industrial and commercial; 2 restaurants, grocers, and retail stores. Trends continue: large businesses that participate in the GreenSpot Sustainability Initiative course tend to encourage their employees to become household GreenSpot members.	X		
2. Increase the number of GreenSpot households by 1,500 new signups annually.	1,337 households became GreenSpots.		X*	
3. Increase the number of GreenSpot businesses by 10 percent annually.	GreenSpot Businesses increased by 2 percent.		X*	

Planned Activity for Next Reporting Period:	GreenSpot continues to engage the community through speaking engagements and virtual tabling/presentations. We started another Sustainability Initiative class in the fall of 2021, have regular social media postings, engaging Clintonville through our GreenSpot Neighborhood program on water conservation tips, distributed a New Home Owners Green Guide which has a conserve and protect water section, celebrate organizations that have demonstrated successes in conserving and protecting water at our virtual GreenSpotLight Awards Celebration, and including water conservation/protection messages in the GreenSpot eNewsletters and on social media. Additionally, we will be tabling at the COSI Science Festival and demonstrating water education and conservation. In 2021 we saw the launch of the GreenSpot Conversations" webinar series which saw 19 conversations which were taped and posted to the city's YouTube page and the GreenSpot website. We virtually tabled or presented at 32 events. Additionally we will continue to encourage people to plant trees which helps with water quality. We have 50 trees planned giveaway. We will hold a virtual 2022 GreenSpotLight Award celebration highlighting the green savings members are experiencing, and will continue to work in the Opportunity Neighborhoods like Linden and the

BMP PE5 – Develop and Implement Program Assessment Mechanisms				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
	Hilltop in encouraging the installation of water efficient shower heads. We will mail our New Home Owner Green Guide to new home owners in our Opportunity Neighborhoods. This mailer will also include a letter from the mayor and a flyer on the city's sustainable programs.			
Discussion:	* The City fell short of a 10% increase in GreenSpot businesses. Business outreach continues. The GreenSpot Advisory Board continues to recruit businesses, however with the pandemic this posed to be challenging. We have had several business close as a result. MORPC included recruitment of GreenSpot members in their Sustainable2050 document but movement on this initiative has been slowed due to the pandemic. The "MyGreenSpot" tracking tool has allowed our businesses to report their water commitments. Overall the businesses membership has made 10,189 commitments and metric inputs to conserve and protect water. Additionally, big outreach efforts that resulted in recruiting in large numbers includes our ReCollect reminder call which netted about 200 household members.			

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION
SWMP Component: Public Involvement and Participation Activities

BMP PI1 – Opportunity for Public Involvement, Storm Drain Marking Project

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Solicit 150,000 homes for participation into the program via brochure distribution and/or bill inserts.	Distributed bill inserts to more than 280,000 residents.	X		
2. Distribute 300 storm drain markers to volunteer groups per year.	Distributed 315 storm drain markers.	X		

Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.
Discussion:	* Storm drain marker distribution resumed in 2021 (after 0 markers distributed in 2020 due to the pandemic); intermittently at first as the coordinator did not return to the office until early July, but we still managed to fulfill several requests even though there was very little promotion of the program (due to that initial uncertainty of when markers could be provided to volunteers). A few requests were fulfilled prior to the official return to office (via trips specifically planned to accommodate those requests); normal distribution resumed in July. While we barely topped the annual minimum of 300 markers, there have already been efforts in early 2022 to resume utilization of publicity outlets - internal and external - for the program and grow participation back to previous higher levels.

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION

Required SWMP Component: Public Involvement and Participation Activities

BMP PI2 – Central Ohio River Pride and Other Waterway Litter Cleanups

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Organize at least one stream or river cleanup per year.	The City organized one cleanup and publicized via social media several others organized by partner organizations.	X		
2. River Pride cleanups will be promoted to at least 150,000 Columbus households to encourage public participation.	Events were promoted via social media. River Pride cleanups were also publicized on the DPU Web site and 614-645-STREAM line.			X*

Planned Activity for Next Reporting Period:	A new permit is expected to be issued in 2022, and a review of measurable goals will be initiated thereafter.
Discussion:	* Our partner organizations, including waterway advocacy groups, have indicated the due date for materials to be published within our spring billing insert (usually early/mid March) is too early for their schedules. They promote their own events through social media; while such events were reduced in number during 2021 due to the pandemic, DPU continued to publicize those partner events - as well as the River Pride program as a whole - by sharing cleanup and related water quality events on our social media outlets as they are received from those partners.

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION

Required SWMP Component: Public Involvement and Participation Activities

BMP PI3 – Onsite Stormwater Retention

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Publicize and provide opportunity for onsite residential stormwater retention activities.	The GreenSpot Community Backyards program was publicized in the Utility Update, GreenSpot e-newsletter, and Franklin Soil and Water newsletters.	X		
2. Track number of rain barrels sold through the rain barrel cost share program and rain gardens installed through the GreenSpot Community Backyards program.	1,482 Columbus residents participated in the program: 1,416 residents participated through the online course, and 66 residents participated through the virtual workshops. 699 rebates were given to residents who implemented a backyard conservation practice on their property (278 rain barrels and 421 native plants or trees). 131 rebates were given for compost bins provided by SWACO. 72 Columbus residents purchased a discounted $25 compost bin through SWACO. 1 free rain barrel was given to resident at 635 Blarney Stone Ct once confirmed enrolled in the Columbus CARES Act Utility Bill Assistance Program.	X		

Planned Activity for Next Reporting Period:	A new permit is expected to be issued in 2022, and a review of measurable goals will be initiated thereafter.
Discussion:	GreenSpot Community Backyards remains one of our most popular residential stormwater programs, with 1,482 residents participating this year. In 2021 we implemented changes in our vouchers. After a review of how the vouchers were being used, we determined that the majority of vouchers were being used for plants/perennials. Given the relatively lower cost of plants/perennials, we reduced vouchers for this type of stormwater management from $50 to $25, while keeping the

BMP PI3 – Onsite Stormwater Retention				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
	$50 vouchers for trees and rain barrels. This allowed us to serve more residents and encourage more use of at-home stormwater runoff strategies.			

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION

Required SWMP Component: Public Involvement and Participation Activities

BMP PI4 – Pet Waste Collection Bags

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Establish and maintain kiosks in city parks with pet waste bags.	1. 124 pet waste stations were maintained in 96 city parks and at City Hall. 2. A total of 16 stations were maintained at city reservoir parks.	X		
2. Distribute pet waste bags for use at city parks.	1. 620,000 pet waste bags were used at city parks. 2. 10,200 pet waste bags were distributed at city reservoir parks. An additional 8,100 bags were disturbed through other means.	X		

Planned Activity for Next Reporting Period:	
Discussion:	

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION

Required SWMP Component: Public Involvement and Participation Activities

BMP PI6 – Watershed and Land Stewardship

Status:
Ongoing, as needed

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Perform 400 inspections per year of reservoir landowner properties in the Land Stewardship Program.	491 inspections of reservoir landowner properties under the Land Stewardship Program were conducted.	X		
2. Make 250 contacts per year to provide information and assistance to reservoir landowners in preparing or complying with a Land Stewardship Agreement.	465 contacts were made to contiguous neighbors regarding the maintenance of City of Columbus reservoir property and the land stewardship program.	X		

Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.
Discussion:	

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION
SWMP Component: Public Involvement and Participation Activities

BMP PI7 – Public Hearings and Presentations

Status: Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Publish public meeting dates and locations on the City's web site and/or by email/mail subscriber notification.	All Columbus City Council meeting dates are published on the City's website. Special Council meetings directly involving Public Utilities are also shared via social media.[2]	X		
2. Hold at least one public hearing per year or meeting where residents can comment on stormwater services. This may include City Council's annual hearing on stormwater, sanitary and water rates or meetings between DPU and the Central Ohio Watershed Council to keep information current and answer any questions about water quality concerns.	1. Conducted six public meetings/hearings (one special rate hearing at City Council and five Sewer and Water Advisory Board meetings). 2. DPU director, deputy director, assistant director for sustainability and division administrators met every other month (virtually during the pandemic) with members of Central Ohio Watershed Council to share information and answer any questions and concerns.	X		
3. Make available public comment opportunities at City Council meetings.	Public comment opportunities are available at all Columbus City Council meetings, as well as during Council's annual rates hearing. Public comment is also invited at all Sewer and Water Advisory Board meetings, held at DPU throughout the year.	X		

Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.

[2] See Appendix E for list of City Council meeting/hearing dates held during the reporting period.

BMP PI7 – Public Hearings and Presentations				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
Discussion:	All meetings in 2021 were online/virtual but publicized and open to public comment the same as in previous years.			

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION
SWMP Component: Public Involvement and Participation Activities

BMP PI8 – GreenSpot

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Inspire and educate residents, businesses and non-profit/community groups on how to live greener, more sustainable lives, including tips on water quality protection, through various outreach efforts.	The GreenSpot outreach/publicity materials included two features in Franklin Soil and Water Conservation District's newsletter to teachers, direct teacher contact to 100 educators, SWACO's home page banner slot, use of the Recollect reminder service (went out to 100,000 people), Next Door (goes out to 60,000 people), tabling and/or presenting at 32 vitual events (examples include: DSW, OSU classes, National Garden Club, Franklin Park Conservatory, Columbus Bar Association Environmental Group, Ohio Pollinator Conference, Sawmill Wetlands, OSU West Fest, Simply Living, and more). The program also held 19 webinars covering an array of sustainability topics. More than 400 GreenSpot Kids books (which include water conservation) were distributed through the Ethiopian Tewahedo Social Services and Ohio Hispanic Coalition. The Ohio Hispanic Coalition installed 26 water saver kits (shower head, aerators) in homes. We included dozens of activities (some GreenSpot, some not) on our website for educators to download. The City posted dozens of posts on Facebook and Twitter	X		

BMP PI8 – GreenSpot				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
	about conserving and protecting water. From the MyGreenSpot tracking it can be seen that all household members have collectively made tens of thousands of commitments to conserving and protecting water. Adjusted the individual dashboards for GreenSpot members to track their water conservation efforts. The City had 278 people commit to install a rain barrel on their property. Additionally over the course of the program 572 people have installed water efficient fixtures (toilets, shower heads, and aerators).			
2. Track the number, types, and locations of new GreenSpot signups annually and evaluate trends over time.	New GreenSpot businesses fell into these types: 15 offices, education, nonprofits; 9 industrial and commercial; 2 restaurants, grocers, and retail stores. Continued trends include: large businesses that participate in the GreenSpot Sustainability Initiative course tend to encourage their employees to become household GreenSpot members.	X		
3. Increase the number of GreenSpot households by 1,500 new signups annually.	1,337 households became GreenSpots.	X		
4. Increase the number of GreenSpot businesses by 10 percent annually.	GreenSpot Businesses increased by 2 percent.	X		

BMP PI8 – GreenSpot				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
Planned Activity for Next Reporting Period:	GreenSpot continues to engage the community through speaking engagements and virtual tabling/presentations. We started another Sustainability Initiative class in the fall of 2021, have regular social media postings, engaging Clintonville through our GreenSpot Neighborhood program on water conservation tips, distributed a New Home Owners Green Guide which has a conserve and protect water section, celebrate organizations that have demonstrated successes in conserving and protecting water at our virtual GreenSpotLight Awards Celebration, and including water conservation/protection messages in the GreenSpot eNewsletters and on social media. Additionally, we will be tabling at the COSI Science Festival and demonstrating water education and conservation. In 2021 we saw the launch of the GreenSpot Conversations" webinar series which saw 19 conversations which were taped and posted to the city's YouTube page and the GreenSpot website. We virtually tabled or presented at 32 events. Additionally we will continue to encourage people to plant trees which helps with water quality. We have 50 trees planned giveaway. We will hold a virtual 2022 GreenSpotLight Award celebration highlighting the green savings members are experiencing, and will continue to work in the Opportunity Neighborhoods like Linden and the Hilltop in encouraging the installation of water efficient shower heads. We will mail our New Home Owner Green Guide to new home owners in our Opportunity Neighborhoods. This mailer will also include a letter from the mayor and a flyer on the city's sustainable programs.			
Discussion:	* The City fell short of a 10% increase in GreenSpot businesses. Business outreach continues. The GreenSpot Advisory Board continues to recruit businesses, however with the pandemic this posed to be challenging. We have had several business close as a result. MORPC included recruitment of GreenSpot members in their Sustainable2050 document but movement on this initiative has been slowed due to the pandemic. The "MyGreenSpot" tracking tool has allowed our businesses to report their water commitments. Overall the businesses membership has made 10,189 commitments and metric inputs to conserve and protect water. Additionally, big outreach efforts that resulted in recruiting in large numbers includes our ReCollect reminder call which netted about 200 household members.			

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION

SWMP Component: Public Involvement and Participation Activities

BMP PI9 – Central Ohio Children's Water Festival and Other School Programs				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Provide opportunities for children to participate in events annually.	The Central Ohio Children's Water Festival was not held in 2021.		X*	
2. Track the estimated number of participants in children's events annually.	The water festival was not held in 2021.		X*	
Planned Activity for Next Reporting Period:	None.			
Discussion:	* Due to ongoing public health concerns the Central Ohio Children's Water Festival was not held in 2021 and again will not be held in 2022.			

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS AND PUBLIC INVOLVEMENT / PARTICIPATION
SWMP Component: Hotline

BMP PI10 – 614.645.STREAM Hotline				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Establish a hotline for residents to call to report illicit discharges.	Made hotline available to city residents to report illicit discharges. The hotline phone number is 614.645.STREAM (7873).	X		
2. Publicize hotline in at least one publication each year.	1. Distributed bill inserts in which the hotline number was provided. 2. Publicized hotline number on DPU website and the DPU Facebook page. 3. Storm drain markers applied on inlets bear this hotline number. 4. Information cards and a door hanger educate residents and new City employees on stormwater pollution and prominently display the 614.645.STREAM hotline.	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:				

ILLICIT DISCHARGE
Required SWMP Component: Prohibit Non-Stormwater Discharges

BMP ID1 – Enact and Enforce City Code to Prohibit Non-Stormwater Discharges				
Status: Completed				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
Review City Code at the beginning of each five-year permit cycle, comparing the codes to EPA permit regulations, and the City will revise the codes as necessary.	Columbus City Code Chapter 1145 currently provides the legal authority to prohibit illicit discharges to the MS4 as well as spills and the dumping or disposing of materials other than stormwater into the MS4; to require compliance with conditions in ordinances, permits, contracts or orders; to inspect operators of construction sites and industrial and commercial activities and to receive and collect necessary information such as stormwater plans and operating procedures, and to effectively respond to violations.	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:	Updates to City Code in 2021 included a more detailed definition for the storm sewer system and corrections of references to Ohio Administrative Codes pertaining to HSTS.			

ILLICIT DISCHARGE
SWMP Component: Mapping

BMP ID2 – Storm Sewer Mapping				
Status: Ongoing, annually				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Annually review and update mapping of existing MS4 infrastructure and outfalls.	1. 1 outfall was added to the City's inventory during this reporting period. 2. New elements of the City's storm sewer system were continually added throughout the year as new development and redevelopment plans were reviewed and approved by the City. Refer to the City's Stormwater Management Plan for more information on the City's mapping process.	X		
2. Annually review and update, if necessary, the list of HSTSs that have been found to discharge to the City's MS4.	Field investigations and records research has identified 80 HSTSs that discharge to the City's MS4.[3]	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:	The number of HSTSs that discharge to the MS4 increased from 79 to 80 in 2021. The City was successful in connecting one discharging HSTS to sanitary sewer; one failing onsite HSTS was replaced with a discharging system due to the lack of accessible sanitary sewer for the property; and one new discharging system was installed.			

[3] See Appendix F for addresses of known HSTSs that discharge to the City's MS4.

ILLICIT DISCHARGE
SWMP Component: Illicit Discharge Detection Program

BMP ID3 – Dry Weather Field Screening Procedures and Activities				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Review annually for update written dry weather field screening procedures.	Updates to the procedures were initiated due to changes in data collection equipment.			X*
2. Field crews will receive annual training in dry weather field screening procedures.	Stormwater sampling field crews attended four training sessions to review proper screening procedures[4].	X		
3. Dry weather field screen 20% of MS4 outfalls each year.	1. 704 outfalls, or 22% of MS4 outfalls, were field screened during this reporting period[5]. 2. 32 outfalls exhibited measurable flow during dry weather screening.	X		
Planned Activity for Next Reporting Period:	A new permit is expected to be issued in 2022, and a review of measurable goals will be initiated thereafter. Any necessary updates to procedures will be incorporated into the revised Stormwater Management Plan.			
Discussion:	* In 2021 the City transitioned to collecting dry-weather data using a phone-based app. Draft updates to the procedure have been developed. These will be finalized in 2022 to incorporate further adjustments that may be necessary due to changes in the new permit.			

[4] See Appendix G for training summary of City personnel.
[5] See Appendix H for dry weather screening results.

ILLICIT DISCHARGE
SWMP Component: Illicit Discharge Detection Program

BMP ID4 – Illicit Discharge Investigations

Status:
Ongoing, as needed

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Review for update, written procedures that describe how to identify and trace illicit discharges and who should be notified in the instance of an illicit discharge, spill, or illegal dumping.	Illicit discharge investigation and reporting procedures were reviewed during this reporting period[6]. No changes were warranted this period.	X		
2. Train investigators annually on established procedures for illicit discharge investigation, response, and notification.	Field crews attended four training sessions to review illicit discharge detection and notification procedures[7].	X		
3. Investigate each illicit discharge detected during dry weather field screening.	No illicit discharge found during dry weather screening conducted in 2021[8].	X		
4. Respond, when notified, to each instance of a spill, illegal dumping, sanitary discharge, failing HSTS discharge, or industrial release per the established procedures.	1. Received 163 reports of illicit discharge from general public.* 2. Responded to 163 reports of illicit discharge as reported by the general public[9].	X		

Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.
Discussion:	Of the 163 documented reports of illicit discharges, 122 investigations resulted in the identification of an illicit discharge.

[6] Written investigation procedures are included in the City's current Stormwater Management Plan.
[7] See Appendix G for training summary of City personnel.
[8] See Section 3.2 for more information about these investigations.
[9] See Appendix I for summary of illicit discharge reports and investigations.

ILLICIT DISCHARGE
SWMP Component: Illicit Discharge Detection Program

BMP ID5 – Management of Home Septic Treatment Systems

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Maintain a list of HSTS addresses that can be feasibly connected to the City's central sanitary sewer system through service lateral installation.	The City ordered 22 properties to connect to the sanitary sewer system, 12 Notices of Violation were issued to property owners who failed to comply with an order, and 0 properties were referred to Environmental Court for failure to timely connect.	X		
2. Inspect all known, off-lot discharging HSTSs annually.	All known, off-lot discharging HSTSs were permitted by CPH. Each off-lot discharging HSTS was inspected by CPH staff or a licensed and registered sewage treatment system provider.	X		
3. Track properties that connect to the City's central sanitary sewer system.	19 properties connected to the sanitary sewer system.	X		
4. Track properties that participate in the City's STEP program.	9 applicants received loans through the Septic Tank Elimination Program (STEP) to abandon their HSTS and tie into the City's sanitary sewer system.	X		
5. Develop a process to identify and prioritize for future sanitary sewer extension areas.	Design continued on 8 of the previous identified projects and one project began construction. Two of the projects are expected to begin construction in early 2022.	X		

Planned Activity for Next Reporting Period:	Complete another analysis of the remaining HSTS for the purpose of prioritizing future sanitary sewer extension projects. The new analysis will provide additional weight to systems within watersheds that have bacterial TMDLs.

BMP ID5 – Management of Home Septic Treatment Systems				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
Discussion:				

ILLICIT DISCHARGE
Required SWMP Component: Illicit Discharge Training, Tracking and Elimination Program

BMP ID6 – Illicit Discharge Tracking and Elimination				
Status: Ongoing, as needed				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Train upon hire all new employees on the identification of illicit discharges and proper reporting procedures to the City's IDDE section.	428 new city employees were presented with information on illicit discharge identification and reporting.	X		
2. Enter results of illicit discharge investigations into tracking database for each illicit discharge investigated.	Added 163 reports of illicit discharge to the City's tracking databases.	X		
3. Close out/document elimination of illicit discharges in tracking database.	163 instances of illicit discharge reported by the general public and no instances found during dry weather monitoring were closed out documenting that the illicit discharge was eliminated.	X		
4. Review annually for update an enforcement action schedule that documents enforcement actions the City will take to eliminate illicit discharges into the City's MS4.	No changes to the enforcement action schedule were warranted this reporting period.	X		
5. Apply appropriate enforcement actions to eliminate each identified illicit discharge[10].	1. 18 Notices of Violation were issued. 2. $5,750 in Administrative Fines were assessed. 3. Agencies outside of City of Columbus departments were notified of illicit discharges on 25 occasions.	X		
Planned Activity for Next Reporting Period:	A new permit is expected to be issued in 2022, and a review of measurable goals will be initiated thereafter.			

[10] See Section 5.1.1 for summary of illicit discharge enforcement actions taken during reporting period.

BMP ID6 – Illicit Discharge Tracking and Elimination				
Status: Ongoing, as needed				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
Discussion:				

CONSTRUCTION
SWMP Component: Construction Program

BMP CP1 – Construction Site Pollution Prevention Regulation				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
Annually review, and revise as needed, the Stormwater Drainage Manual and Erosion and Sediment Pollution Control Regulations.	The City's Stormwater Drainage Manual (SWDM) requires that all construction activity within the city complies with the requirements of Ohio EPA's current Construction General Permit, and it was revised to require both a surety bond for the construction of temporary sediment basins and a professional survey to verify that adequate volume has been provided after construction.	X		
Planned Activity for Next Reporting Period:				
Discussion:				

CONSTRUCTION
SWMP Component: Construction Program

BMP CP2 - Construction Site Pollution Prevention Plan Review and Approval Process				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
The City will review and comment on all submitted construction site pollution prevention plans[11].	1. 494 new construction site pollution prevention plans were submitted to the City for review/approval. 2. 494 new construction site pollution prevention plans were reviewed and approved.	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:				

[11] See Appendix J for a list of Construction Site Pollution Prevention Plans that were reviewed.

CONSTRUCTION
SWMP Component: Construction Program

BMP CP3 – Construction Site Inspection				
Status: Ongoing, annually				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Review annually for update, written procedures that describe how construction inspections are prioritized and performed.	Written construction inspection procedures are presented in the City's Stormwater Management Plan.	X		
2. Train inspectors annually on established procedures for construction site inspection.	Four inspectors participated in training involving the Design of Active Construction Sediment Settling Ponds and Five inspectors completed a webinar on Post Construction Stormwater Management. Multiple inspectors also completed several other Stormwater related training opportunities.[12]	X		
3. Perform an inspection at each construction site at least once every four weeks on average.[13]	1. 4,386 construction site inspections were performed. 2. Responded to 51 various storm/SWPPP related reports from the general public. 3. The average number of active construction site inspections per month was 366.			X*
4. Perform a follow-up inspection within 10 days from the date a Construction Inspection Report or formal Request for Voluntary Compliance is issued.	There were 102 construction sites in non-compliant status; 10 were resolved within the next 30 day inspection period.			X*

[12] See Appendix G for training summary of City personnel.
[13] See Appendix K for construction site visit summary.

BMP CP3 – Construction Site Inspection

Status:
Ongoing, annually

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	**No**	**Other**
5. Maintain 85% of construction sites in compliance with the City's Construction Site Pollution Prevention Regulations.	Over 90% of construction sites inspected were in compliance.	X		

Planned Activity for Next Reporting Period:	Meet or exceed measurable goals by continuing to improve and modify existing processes.
Discussion:	* Reduced staffing due to Covid-related absences and resignations created challenges in performing follow-up inspections throughout the year. Simultaneous, the pace of development did not relent and in fact the number of active projects increased. Replacement of staff and evaluation of inspection prioritization will be needed to provide the necessary resources to increase compliance through inspections and enforcement.

CONSTRUCTION
SWMP Component: Construction Program

BMP CP4 – Tracking and Enforcement				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Update site tracking spreadsheet to include new and active construction sites and add inspection dates, recommended actions, priority, and compliance history for each inspection.	1. 494 construction sites were added to the City's construction site inventory this reporting period. 2. The total number of new construction sites inventoried as of the end of this reporting period is 494. 3. Added inspection results into the City's tracking spreadsheet.	X		
2. Review annually for update an enforcement action schedule that documents enforcement actions the City will take to ensure construction site compliance with the City's Erosion and Sediment Pollution Control Regulations.	No changes to the enforcement action schedule were warranted this reporting period.	X		
3. Apply appropriate enforcement actions to achieve compliance with the City's Erosion and Sediment Pollution Control Regulation[14].	1. Nine Notices of Violation were issued. 2. Administrative Fines totaling $27,000 were issued.	X		
Planned Activity for Next Reporting Period:	Revise the enforcement action schedule and review the enforcement process for efficiency improvements after new staff are hired.			
Discussion:				

[14] See Section 5.1.2 for summary of construction enforcement actions taken during the reporting period.

POST CONSTRUCTION
SWMP Component: Post-Construction Regulations

BMP PC1 – Post-Construction BMP Requirements				
Status: Ongoing, annually, as needed				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Review the City's Stormwater Drainage Manual (SWDM) when necessary based upon comments and regulatory changes received throughout the year. Revise, if necessary, to reflect accepted standard practices in stormwater management and stormwater regulation.	The City's Stormwater Drainage Manual (SWDM) requires that all construction activity within the city complies with the requirements of Ohio EPA's current Construction General Permit. A revised version of the manual was published in May 2021.	X		
Planned Activity for Next Reporting Period:	The City will continue to review stakeholder feedback on the SWDM and associated regulations. Further updates to the manual will be made as necessary.			
Discussion:	Revisions to the SWDM resulted in significant changes to existing processes. Outreach was conducted in January 2021 to inform designers, developers, inspectors, and others of the regulatory changes made to ensure that stormwater control practices (SCPs) are constructed and maintained properly. Significant new requirements include SCP bonds, access easements, and recorded maintenance agreements. Additional training on the installation and inspection of SCPs for design and inspection professionals was provided in May 2021.			

POST CONSTRUCTION
SWMP Component: Stormwater Pollution Prevention Plan Reviews

BMP PC2 – Stormwater Post-Construction Plan Review and Approval Process				
Status: Complete, as needed				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Review construction plans and Stormwater Management Reports for all new development or redevelopment projects to ensure implementation of post-construction stormwater BMPs as required by the SWDM.	1. 385 construction plans were approved.[15]	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:				

[15] See Appendix L for a list of approved plans.

POST CONSTRUCTION
SWMP Component: Long Term Operation and Maintenance of BMPs

BMP PC3 – BMP Maintenance Requirements and Inspection				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Contact and advise the BMP owner of maintenance and reporting responsibilities for each new BMP added to the City's BMP inventory.	The City issued 1 notice to BMP owners with information on the function of BMPs and the availability of training on maintenance requirements.			X*
2. Inspect each post-construction water quality BMP in the City's BMP inventory at least once during each permit cycle.	1. 2,636 post-construction water quality BMPs have been constructed to date. 2. Inspected 405 sites with post-construction water quality BMPs for proper maintenance and operation during this reporting period[16].	X		
Planned Activity for Next Reporting Period:	A new permit is expected to be issued in 2022, and a review of measurable goals will be initiated thereafter.			
Discussion:	The loss of 80% of the post-construction staff due to retirements and resignations impacted the performance of the program in 2021. New staff is expect to be hired in 2022 and will work through any backlog of data to be entered.			

[16] Sites where post-construction BMPs were inspected are listed in Appendix M.

POST CONSTRUCTION
SWMP Component: Long Term Operation and Maintenance of BMPs

BMP PC4 – BMP Maintenance Tracking and Enforcement

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Update post-construction BMP database monthly to include new BMPs that are planned and constructed as part of new and redevelopment projects.	1. Over 3,500 post-construction water quality BMPs that are either planned or constructed have been inventoried as of the end of this reporting period.	X		
2. Enter results of post-construction BMP inspections into tracking database for each BMP inspected.	The post-construction BMP database was not updated to include inspection reports for post construction water quality BMPs inspected in 2021.			X*
3. Review annually for update an enforcement action schedule that documents enforcement actions the City will take to ensure compliance with the City's post-construction BMP maintenance requirements.	No revisions to the schedule for enforcement of maintenance issues were necessary.	X		
4. Apply appropriate enforcement actions to ensure post-construction BMP maintenance compliance.	1. 405 inspection reports were sent to BMP owners.			X*

Planned Activity for Next Reporting Period:	Continue adjustments to the enforcement process based on lessons learned.
Discussion:	The loss of 80% of the post-construction staff due to retirements and resignations impacted the performance of the program in 2021. New staff is expect to be hired in 2022 and will work through any backlog of data to be entered.

POLLUTION PREVENTION/GOOD HOUSEKEEPING
Required SWMP Component: List of Municipal Operations

BMP GH1 – Maintain Inventory of Facilities Owned/Operated and Activities Conducted by the City Having Potential to Generate Stormwater Pollution				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
Review and update the inventory and GIS coverage annually.	Total number of City O&M facilities is 100[17].	X		
Compare inventoried facilities to applicability requirements of the Ohio EPA's Industrial Stormwater Permit upon each 5-year permit renewal period.	Seven facilities have been identified as requiring industrial permit coverage.	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:				

[17] See Appendix N for current list of City facilities that conduct activities having stormwater pollution potential.

POLLUTION PREVENTION/GOOD HOUSEKEEPING
Required SWMP Component: Pollution Prevention Procedures

BMP GH2 - Develop and Implement Pollution Prevention Practices for City Facilities/Activities				
Status: Complete, ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Submit Notices of Intent and prepare Stormwater Pollution Prevention Plans (SWPPPs) or submit No Exposure Applications to OEPA for Tier I city facilities[18] that require coverage under OEPA's Industrial Stormwater Permit Program.	No new general permit confirmation letters were issued by Ohio EPA to city-operated facility during this reporting period[19].	X		
2. Maintain and distribute written pollution prevention practices and materials online to representative of operating City departments.	The online repository of pollution prevention practices and materials was reviewed and updates were made.	X		
3. Incorporate written pollution prevention practices into SWPPPs for Tier II city facilities[20].	All 45 of the 93 Tier II facilities that require SWPPPs had them at the end of the reporting period.	X		
4. Continue to implement pollution prevention practices at City-owned and operated O&M facilities that include maintenance of spill kits at City refueling facilities and covering of materials stored outdoors where warranted.	The City continued to implement pollution prevention practices at its O&M facilities. The inspections performed at or evaluations of 7 Tier I and 91 Tier II facilities indicated that practices are being performed.	X		

[18] Tier I facilities are defined as those facilities that require coverage under an Industrial Stormwater NPDES permit or No Exposure Certification.
[19] See Appendix N for industrial permit numbers for regulated City facilities.
[20] Tier II facilities are defined as those facilities that do not require coverage under an Industrial Stormwater NPDES permit or No Exposure Certification but still have the potential to generate stormwater pollution.

BMP GH2 - Develop and Implement Pollution Prevention Practices for City Facilities/Activities				
Status: Complete, ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
Planned Activity for Next Reporting Period:	Perform inspections of all Tier II facilities.			
Discussion:	Field visits for re-evaluation of Tier II facilities continued and were completed in 2021.			

POLLUTION PREVENTION/GOOD HOUSEKEEPING
Required SWMP Component: Pollution Prevention Procedures

BMP GH3 – Street Cleaning

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Continue to incorporate high efficiency sweepers (PM-10 street sweeping equipment) into the City's street sweeping inventory.	Four new sweepers were purchased during this reporting period.[21]	X		
2. Sweep each curbed city street at least twice per year. Track and report total lane miles sweep annually.	1. Each curbed street was swept at least once. 2. 15,292 miles of streets were swept.		X*	
3. Collect and dispose of all debris and litter collected from street sweeping and roadside litter pick up operations at a sanitary landfill. Track and report total tonnage of material collected and disposed each year.	5,976 tons of debris and litter were collected and disposed.	X		
4. Continue to implement existing practices to reduce stormwater pollution from storage of materials collected during street sweeping operations and incorporate permanent structural controls when and where feasible.	The Transportation Division hauls debris to the transfer stations (Morse Road and Jackson Pike) or directly to the landfill. Debris that must be temporarily stored at each outpost is kept to a minimum and within a containment area prior to final disposal on a weekly basis.	X		

Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.
Discussion:	* The City evaluated the street program with intent to develop recommendations to focus efforts in areas with TMDLs for TSS. The need for additional field data was identified, and in anticipation of a new MS4 permit in 2022 changes to necessary procedures were initiated. Additional adjustments

[21] See Appendix O for the list of the City's current street sweeper inventory.

BMP GH3 – Street Cleaning				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
	will be made to meet the anticipated permit requirement that curbed streets are swept twice each year.			

POLLUTION PREVENTION/GOOD HOUSEKEEPING
Required SWMP Component: Pollution Prevention Procedures

BMP GH4 – Deicing and Snow Removal				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Continue to store all de-icing material stockpiles under roof or otherwise to prevent materials from entering stormwater runoff.	City stored deicing materials in six salt barns.	X		
2. Annually calibrate salt spreaders to meter the minimum amount of material for public safety.	All 92 trucks used for de-icing operations and snow removal were calibrated for minimum salt application.	X		
3. Provide training annually to city staff performing de-icing operations to ensure that the established BMP procedures are followed and the minimum amount of de-icing materials is applied to ensure public safety.	238 city employees were trained on proper salt application techniques at City's Snow Warriors training session.	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:				

POLLUTION PREVENTION/GOOD HOUSEKEEPING
Required SWMP Component: Pollution Prevention Procedures

BMP GH5 – Refuse Collection				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Collect and dispose of refuse weekly and recycled materials biweekly from household within the city.	1. 335,353 tons of refuse were collected and disposed of through the City's curbside collection program. 2. 30,842 tons of recycling were collected and disposed of from residents through the City's curbside collection program.	X		
2. Coordinate at least one neighborhood refuse collection campaign per year.	1. 749 neighborhood litter cleanups were conducted. 2. 254,873 pounds of refuse was collected and disposed.	X		
3. Collect yard waste from single-family residential households biweekly.	21,845 tons of yard waste from city residents were collected and composted.	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:				

POLLUTION PREVENTION/GOOD HOUSEKEEPING
Required SWMP Component: Stormwater Facility Maintenance

BMP GH6 – Stormwater Infrastructure Inspection, Tracking, and Maintenance				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Inspect 10,000 catch basins/inlets annually for cleaning.	1. 11,934 catch basins/inlets were inspected 2. 2,437 catch basins/inlets were cleaned	X		
2. Televise 15,000 lineal feet storm sewer annually.	37,380 lineal feet of storm sewers were televised.	X		
3. Clean 50,000 feet of storm sewer pipe per year.	55,723 feet of storm sewer pipe was cleaned.	X		
4. Inspect all stormwater pump stations at least once quarterly.	1. 269 stormwater pump inspections were performed. Each pump station was inspected at least 5 times during the reporting period. 2. Six storm water pump stations were cleaned this reporting period.	X		
5. Inspect, clean, mow, or otherwise maintain all DOSD stormwater detention/retention basins at least once annually.	57 stormwater detention basins are being maintained. Preventative maintenance routines for trash rack and/or sluice gate maintenance/inspection have been established. Mowing and vegetation control contracts also in place.	X		
6. Inspect/clean all DOSD maintained trash racks at least twice annually.	1. 112 trash racks were maintained. 2. 3,703 trash rack inspections were conducted. 3. 2,391 trash rack cleanings were performed.	X		
7. Clean 30,000 lineal feet of drainage ditches annually.	70,802 feet of drainage ditches were cleaned.	X		

BMP GH6 – Stormwater Infrastructure Inspection, Tracking, and Maintenance

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
8. Maintain and update a database to track regular stormwater facility inspection and maintenance.	1. Sewer Maintenance Operations (SMOC) used the Oracle Utilities Work and Asset Management application to track maintenance and inspection activities involving the collection system. 2. The City tracked the completion of over 8,730 storm, sanitary, and combined collection system maintenance activities in the Oracle application.	X		
9. Follow written pollution prevention (P2) practices for stormwater system maintenance activities.	The written P2 practices for stormwater maintenance included in the SWPPP for the City's Sewer Maintenance Operations facility are followed when performing maintenance activities.	X		

Planned Activity for Next Reporting Period:	A new permit is expected to be issued in 2022, and a review of measurable goals will be initiated thereafter.
Discussion:	As staffing levels improved in 2021 so too did the ability to perform maintenance on the storm sewer system. Challenges still remain to replace all staff that have retired or resigned.

POLLUTION PREVENTION/GOOD HOUSEKEEPING
Required SWMP Component: Training and Education

BMP GH7 - Employee Stormwater Pollution Awareness Training				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period[22]:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. All new City employees undergoing orientation will receive information on stormwater pollution awareness.	1. 428 new city employees were presented with information on stormwater pollution. 2. 846 city employees were trained on identification and reporting of illicit discharges.	X		
3. All new city employees undergoing orientation will be informed of the need and phone number to report illicit discharges.	428 new city employees were presented with information on illicit discharge identification and reporting.	X		
4. City employees that conduct activities at city Tier I and Tier II sites will be trained on elements of their respective stormwater pollution prevention plans annually.	1591 employees were trained.	X		
5. Conduct updated training refresher once every permit term for personnel responsible for overseeing the implementation of P2 practices at City Tier I and Tier II sites.	Training was initially provided to responsible persons when the City's written P2 practices were updated in 2013.	X		
Planned Activity for Next Reporting Period:	Revise the SWMP to incorporate new procedures that have been developed and new requirements in the forthcoming permit.			
Discussion:				

[22] See Appendix G for summary of City training sessions conducted this reporting period.

INDUSTRIAL AND RELATED FACILITIES
Required SWMP Component: Inventory of Industrial Facilities

BMP IF1 – Prepare Inventory of Industrial Facilities

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Maintain a list of industries that have the potential for meeting the definition of 40 CFR 122.26(b)(14).	The City continued to maintain its database of industries.	X		
2. Update the City's inventory annually based on: a. NOIs submitted as part of Stormwater Management Plans, b. New industries identified within the Daily Reporter publication, c. Industries identified through recent illicit discharge and detection investigations d. New industries identified under the Industrial Waste Pretreatment Group, and e. Review of lists of permitted/no exposure qualifying industries maintained by Ohio EPA.	Inventory updated this period. Current total number of industrial sites in the City's inventory is 629, a decrease of 11 from the previous year.	X		

Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.
Discussion:	

INDUSTRIAL AND RELATED FACILITIES
Required SWMP Component: Industrial Facility Inspection Schedule and Inspection Form

BMP IF2 – Acquisition, Review, and Tracking of Permit Information, Stormwater Pollution Prevention Plans, and Industrial Monitoring Data				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Contact Ohio EPA and newly identified industries at least once each year to request: a. OEPA NPDES permit numbers or Notices of Intent forms, b. OEPA No Exposure Certification numbers, c. Stormwater Pollution Prevention Plans (SWPPPs), d. Stormwater monitoring data.	1. In response to contacts made by the city to date, the City has the following documents actively on file: a. 148 Notices of Intent and 130 OEPA NPDES permit numbers b. 443 No Exposure Certifications 2. 6 SWPPP plans were reviewed during this reporting period. 3. No monitoring data for industries was received this reporting period. 4. Procured copy of list of industrial permit holders from Ohio EPA; incorporated data into the industry list.	X		
2. Update classifications of Category 1 and Category 2 industries annually.[23]	1. 265 Category 1 industries have been identified[24]. 2. 364 Category 2 industries have been identified[25].	X		

[23] Industries that cannot show proof of NPDES permit coverage or No Exposure Certification by Ohio EPA or the industrial operator will be classified as Category 1 industries. Industries will be classified as Category 2 industries if Ohio EPA or the industrial operator can show proof of coverage under an industrial NPDES permit or no exposure certification by Ohio EPA and discharge to the City's MS4. Once a Category 1 industry obtains permit coverage, the industry will be reclassified as Category 2.
[24] See Appendix P for list of Category 1 Industries.
[25] See Appendix Q for list of Category 2 Industries.

BMP IF2 – Acquisition, Review, and Tracking of Permit Information, Stormwater Pollution Prevention Plans, and Industrial Monitoring Data

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
3. Maintain a hard copy file for SWPPPs and monitoring data received for each Category 2 industrial facility.	Hard copy files are available and located at the City's Division of Sewerage and Drainage, 1250 Fairwood Ave., Columbus, Ohio.	X		

Planned Activity for Next Reporting Period:	1. Meet or exceed measurable goals 2. Follow-up with Ohio EPA to acquire NOI's, General Permit confirmation numbers, and No Exposure application and certification letters during the 2022 reporting period. 3. Acquire monitoring data for Category 2 industries during the 2022 reporting period.
Discussion:	The lists of Category 1 and Category 2 facilities includes some that are believed to be closed and no longer in operation but additional review is required to verify before these facilities are removed from the inventory. As verification of closure is made the facility will no longer be included in the Category lists.

INDUSTRIAL AND RELATED FACILITIES
Required SWMP Component: Industrial Facility Inspection Schedule and Form

BMP IF3 – Establish Industrial Facility Inspection Schedule				
Status: Ongoing, annually				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
Evaluate and prioritize industries for inspections annually.	1. 87 Category 1 and 121 Category 2 industries have been prioritized based on a "High" rating of illicit discharge potential[26]. 2. 53 Category 1 and 64 Category 2 industries have been prioritized based on a "Medium" rating of illicit discharge potential. 3. 125 Category 1 and 179 Category 2 industries have been prioritized based on a "Low" rating of illicit discharge potential. 4. 0 Category 1 and 0 Category 2 industries could not be prioritized since SIC numbers are unknown.	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:				

[26] High, low, and medium illicit discharge potentials are assigned to each industry based on information provided in Appendix A of the Illicit Discharge and Detection and Elimination, A Guidance Manual for Program Development and Technical Assessments, developed in cooperation with the Center for Watershed Protection and Robert Pitt with the University of Alabama.

INDUSTRIAL AND RELATED FACILITIES
Required SWMP Component: Industrial Facility Inspection Schedule and Form

BMP IF4 –Industrial Facility Inspection Form				
Status: Ongoing, annually				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
Review annually for update, the Stormwater Industrial Site Inspection form.	The Stormwater Industrial Site Inspection form was reviewed and no changes were made.	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:				

INDUSTRIAL AND RELATED FACILITIES
Required SWMP Component: Industrial Facility Inspections

BMP IF5 – Staff Training				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
Implement routine training programs for employees that perform industrial site inspections.	The City's industrial stormwater inspectors participated in 1 training related to industrial activities this reporting period.[27]	X		
Planned Activity for Next Reporting Period:	Continue to evaluate and schedule training for inspection staff.			
Discussion:	Three vacant positions were filled by the end of 2021. Staff will continue to train.			

[27] See Appendix G for details of City training sessions conducted this reporting period.

INDUSTRIAL AND RELATED FACILITIES
Required SWMP Component: Industrial Facility Inspections

BMP IF6 – Industrial Facility Inspections

Status:
Ongoing

Measurable Goals	Summary of Activity During Reporting Period:	Measurable Goals Achieved?		
		Yes	No	Other
1. Review annually for update, written procedures that describe how industrial inspections are performed.	The written industrial inspection procedures contained in the City's Stormwater Management Plan were reviewed and found to be up-to-date.	X		
2. Review the SWPPPs of each permitted industry inspected.	The SWPPPs for 0 permitted industries were reviewed as part of an inspection.[28]	X		
3. Inspect each Category 1 and Category 2 industry at least once within the City's MS4 5-year permit cycle.	1. 48 inspections were conducted at Category 1 industrial facilities[29]. 2. 26 inspections were conducted at Category 2 industrial facilities[30]. 3. 1 facility was inspected and did not meet criteria requiring a permit.	X		

Planned Activity for Next Reporting Period:	A new permit is expected to be issued in 2022, and a review of measurable goals will be initiated thereafter.
Discussion:	Position vacancies and schedule disruptions continued to impact the City's programs in 2021.

[28] Not all industries are required to obtain permit coverage.
[29] See Appendix P for Category 1 industrial inspection dates.
[30] See Appendix Q for Category 2 industrial inspection dates.

INDUSTRIAL AND RELATED FACILITIES
Required SWMP Component: Industrial Facility Inspections

BMP IF7 – Industrial Facility Inspection Tracking and Enforcement				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Enter results of industrial inspections into the tracking database for each industry inspected.	Inspection information for 71 industrial inspections were added to the City's tracking database.	X		
2. Apply appropriate enforcement actions to eliminate potential pollution problems identified at industrial sites.	1. Zero instances of suspected illicit discharge to the MS4 were observed during industrial inspections.[31]	X		
4. Document and forward to Ohio EPA observed violations of Ohio EPA's industrial stormwater permit.	1. 6 inspection reports were issued to industry operators during this reporting period. 2. 52 reports of suspected violation of an operator's permit were submitted to the Ohio EPA.	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:				

[31] See Appendix I for summary of illicit discharge reports and investigations.

INDUSTRIAL AND RELATED FACILITIES
Required SWMP Component: Monitoring Industrial Sites

BMP IF8 – Monitoring and Sampling of Industrial Sites				
Status: Ongoing				
Measurable Goals	**Summary of Activity During Reporting Period:**	**Measurable Goals Achieved?**		
		Yes	**No**	**Other**
1. Review annually for update, written procedures that identify constituents of concern and when industrial facilities are required to monitor stormwater discharges.	The written procedures outlining industrial monitoring strategies included in City's Stormwater Management Plan were reviewed and found to be up-to-date.	X		
2. Respond, when notified, to each instance of an industrial release per established procedures.	The City responded to 0 notifications of a suspected industrial release.	X		
3. Review and file stormwater monitoring and sampling reports submitted by industrial operators.	Monitoring reports from 2 Category 2 industries were reviewed by the City.	X		
Planned Activity for Next Reporting Period:	Meet or exceed measurable goals.			
Discussion:				

SECTION 3 – SUMMARY AND ANALYSIS OF COLLECTED INFORMATION

3.1 History of City-Wide Wet Weather Monitoring Program

From 2007 to 2012 five sampling locations throughout the City representing medium density residential, high density residential, multi-family residential, commercial, and industrial land uses were monitored under permit No. 4PI00000*BD. From 2013 through the first quarter of 2017, the City of Columbus collected samples at three outfalls that are located downstream of land uses representing residential, commercial and industrial development. On November 2, 2015, the City of Columbus received approval for an alternative wet weather monitoring program that will focus on newly constructed green infrastructure facilities under the City's Project Blueprint in the residential neighborhood of Clintonville. Analysis is being performed at both the BMP and sewershed levels. Three sewersheds will be retrofitted with Green Infrastructure (GI)—Cooke-Glenmont, Blenheim, and Indian Springs—and a single adjacent sewershed—Beechwold—receiving drainage from areas outside the Clintonville project will be monitored as a control. Analysis of the GI facilities and tributary outfalls targeted by this initiative will provide a better understanding of how GI practices perform under an urban retrofit scenario. A full report on the City's wet weather monitoring activities and findings during this reporting period can be found in city-wide monitoring report located in Appendix R.

3.2 Summary of City-Wide Wet Weather Monitoring Activities

The City was able to collect samples at each of the outfalls during 2021. The samples were analyzed for the following parameters:

- Fecal coliform (#/100 ml)
- E. coli (#/100 ml)
- Nitrite (NO2) (mg/l)
- Total Phosphorous (mg/l)
- Orthophosphate (mg/l)
- Carbonaceous biochemical oxygen demand (CBOD5) (mg/l)
- Biochemical oxygen demand (BOD5) (mg/l)
- Chemical oxygen demand (COD) (mg/l)
- Total suspended solids (TSS) (mg/l)
- Ammonia (NH3) (mg/l)
- Alkalinity (mg/l)
- Oil & grease (mg/l)
- Total cyanide (µg/l)
- Hardness (mg/l)
- Total recoverable cadmium (Cd) (µg/l)
- Total recoverable chromium (Cr) (µg/l)
- Total recoverable copper (Cu) (µg/l)
- Total recoverable lead (Pb) (µg/l)
- Total recoverable nickel (Ni) (µg/l)
- Total recoverable zinc (Zn) (µg/l)

3.2.1 Findings Summary

Clear reductions for several water quality parameters were observed. The results demonstrate the pollutant removal effectiveness of the GI installed in these sewersheds compared to the control. Comparing watersheds for pre- and post-GI installation:

- Total Phosphorus was reduced 28 percent for Blenheim and Cooke-Glenmont and 43 percent for Indian Springs.
- TSS concentration was reduced by 66 percent for and Indian Springs, respectively.
- Lead concentrations decreased by 26% in Cooke-Glenmont.
- Median Zn concentrations were reduced by 52.7% at Indian Springs.

3.3 Illicit Discharge Detection and Elimination/Dry Weather Monitoring

As part of its Illicit Discharge Detection and Elimination (IDDE) program, the City conducted dry weather monitoring at stormwater outfalls during the January 1, 2021, to December 31, 2021, reporting period to identify the presence of illicit discharges in the City's storm sewer system. The City also investigated reports of illicit discharges into the City's storm sewer system received from the community. A full description of the activities conducted under the IDDE programs during the reporting period is provided in Section 2. The results of the dry weather outfall monitoring program are located in Appendix H, whereas a summary of illicit discharges confirmed as a result of dry weather outfall monitoring during the January 1, 2021, to December 31, 2021, reporting period are provided below.

- There were no illicit discharges detected from dry weather monitoring in 2021.

SECTION 4 – REVISIONS TO ASSESSMENT OF CONTROLS AND FISCAL ANALYSIS

There are no revisions necessary to the assessment of controls as implemented under the present permit.

Funds generated by the City of Columbus Stormwater Utility are used to cover all costs for Compliance with the NPDES permit and the City's stormwater Capital Improvements Program. The utility fee is collected from residential and non-residential customers. In 2021, a residential customer was charged one Equivalent Residential Unit (1 ERU = 2000 sq. ft.) equal to $0.1614 (effective 01/01/2021) per day for an average annual cost (365 days x $0.1614) of $58.91. Non-residential customers pay the same ERU rate based on their total impervious area. The following table contains expenditures for the NPDES program during the reporting period.

Category	Cost
Personnel	$ 2,013,378.10
Materials & Supplies	$ 29,506.12
Services	$9,030,397.67
Street Cleaning	$9,080,568.79
Pro Rata Charges	$1,957,727.41
Debt Principal	$9,800,509.59
Other Expenditures	$75,000.00
Capital Outlay	$27,958.00
Interest on Debt	$4,602,325.54
Total Costs:	$34,603,993.12

SECTION 5 – SUMMARY OF ENFORCEMENT, INSPECTIONS, PUBLIC EDUCATION, AND EMPLOYEE TRAINING

In addition to many other requests for service, SRMS and SMOC personnel made 162 investigations of reported or suspected illicit discharges and spills to the MS4 during this reporting period. SRMS also conducted a total of 4,386 construction site inspections, 111 inspections of industries and potential industries, and 102 site inspections for post-construction BMP maintenance during this reporting period.

5.1 Summary of Enforcement Actions

Enforcement action was taken by the City if a violation is observed and a responsible party is identified. Typically the responsible party is notified, the violation is stated and a request is made that immediate steps be taken to cease, prevent, control, and clean up pollutant sources that are, or may, be discharged into stormwater runoff. The SRMS issued 27 Notices of Violation (NOV) during the last reporting period. When a Notice of Violation is sent to the responsible party, an explanation of discharge and a Remedial Action Plan to prevent future occurrences is required. Requests for Voluntary Compliance are issued either verbally or written when a discharge or potential discharge is considered minor in nature and is immediately ceased.

5.1.1 Notices of Violation, Illicit Discharge

Summaries of the City's 18 Notices of Violation for illicit discharges during the January 1, 2021, to December 31, 2021, reporting period are provided below. Any discharges from industrial facilities subject to 40 CFR 122.26(b)(14) are noted as such.

01/28/2021 Notive of Violation issued to Baseline NXC at 3101 New Heaven Ave., for allowing process wastewater and boring mud to discharge into the City's MS4.

05/25/2021 Notice of Violation issued to Messer Construction at 3705 Business Park Drive for allowing process wastewater from power washing activity to enter into the City's MS4.

05/27/2021 Notice of Violation issued to Team Fishel at 1600 Walcutt Road for discharging sediment-laden water into the City's MS4.

05/27/2021 Notice of Violation issued to Fleetwash, Inc. at 5526 West Raymond Street for allowing process wastewater from power washing activity to enter into the City's MS4.

06/29/2021 Notice of Violation issued to Conie Construction at 1340 Windsor Avenue for allowing sediment-laden water to enter into the City's MS4.

06/29/2021 Notice of Violation issued to Servpro at 7440 Pingue Drive for allowing sanitary wastewater from cleanup services provided for a restaurant's sewer blockage to enter into the City's MS4.

07/13/2021 Notice of Violation issued to Brewer-Garrett at 6037 Frantz Road, Suite 105 for allowing diesel fuel to enter into the City's MS4.

07/21/2021 Notice of Violation issued to Shelly & Sands, Inc. at 1515 Harmon Avenue for allowing concrete washout water to enter into the City's MS4.

08/18/2021 Notice of Violation issued to The Stonehenge Company at 147 North High Street for discharging sediment-laden water into the City's MS4.

08/19/2021 Notice of Violation issued to Protegis Fire & Safety at 3486 E Dublin Granville Rd for allowing grease and process wastewater from power washing activities to enter into the City's MS4.

09/02/2021 Notice of Violation issued to The Kroger Co. at 4111 Executive Parkway for allowing liquid waste from a trash compactor, open rollover container, and organic waste dumpster to enter into the storm sewer.

09/07/2021 Notice of Violation issued to Scioto Ready-Mix at 1500 Williams Road for allowing process wastewater from concrete mixing operations to enter into the City's MS4.

10/12/2021 Notice of Violation issued to American Electric Power Ohio at 1333 Goodale Boulevard for discharging sediment-laden water into the City's MS4.

10/12/2021 Notice of Violation issued to Dolly's Barking Bubbles, LLC at 17980 White Stone Road for allowing wastewater from washing activities to enter into the City's MS4.

11/17/2021 Notice of Violation issued to 2 Brothers Tacos at 124 Fernhill Avenue for the disposal of grease into the City's MS4.

12/01/2021 Notice of Violation issued to Joseph Alaura at P.O. Box 254 for discharging sanitary wastewater into the City's MS4.

12/01/2021 Notice of Violation issued to Timothy Gravely at 5545 Ketch Street for discharging wastewater into the City's MS4.

12/01/2021 Notice of Violation issued to Polaris Fashion Place at 1500 Polaris Parkway, Suite 3000 for allowing liquid waste, grease, and process wastewater to enter into the storm sewer.

5.1.2 Notices of Violation, Erosion and Sediment Pollution Control

Nine Notices of Violation were issued to property owners and/or contractors for non-compliance with the City of Columbus construction site pollution prevention requirements during the January 1, 2021, to December 31, 2021, reporting period. Summaries of these actions are provided below:

01/25/2021 NOV and Administrative Fine ($3,000) issued to Kendric Fine Homes for failure to install and maintain Stormwater pollution control practices at the construction site for at McCutcheon Crossing sites 3387, 3395, 3403 and 3499 Crossing Hill Way Plan 4446-D. The violations included failure to install and maintain effective inlet sediment controls, failure to install and maintain effective perimeter erosion and sediment controls, failure to install an adequate construction entrance and failure to clean the streets.

02/02/2021 NOV and Administrative Fine ($5,000) issued to Riverside Trail Apartments LLC for failure to install and maintain Stormwater pollution control practices at the construction site for Riverside Trail Apartments under plan CC-18266. The

violations included failure to install effective perimeter erosion and sediment controls, failure to install and maintain effective inlet sediment controls, failure to stabilize idle soil, failure to install a functional concrete washout area and failure to complete all sediment basins with skimmers.

02/09/2021 NOV and Administrative Fine ($3,000) issued to Five on Fifth LLC for failure to install and maintain Stormwater pollution control practices at the construction site at 1300 Forsythe Avenue under plan CC-18436 and the 5th and Forsythe street Improvement plan E-3615. The violations included failure to install effective perimeter erosion and sediment controls, failure to install an adequate construction entrance and failure to clean the streets.

02/09/2021 NOV and Administrative Fine ($1,000) issued to Seals Construction Inc. for an illicit discharge caused by discharging sediment-laden (muddy) water without proper functioning sediment filtration controls.

02/11/2021 Cease and Desist Order issued to Lois J Reiner and Adam Reiner Co-Trustee of Walter G. Reiner Trust at 3600 Johnny Appleseed Court, parcel numbers 600-216507 and 600-216508 for performing earth- and land-disturbing activities at the referenced site without an approved SWP3.

02/18/2021 NOV and Administrative Fine ($7,000) issued to Richmond Reserve LLC, for failure to install and maintain stormwater pollution control practices at the construction site Richmond Reserve and E. Broad Street Improvement under plan CC-18544, and for the illicit discharge of sediment-laden water to the municipal separate storm sewer system MS4. The violations included failure to install effective perimeter erosion and sediment controls, failure to clean the streets, failure to dispose of garbage and trash, failure to install an adequate construction entrance, failure to stabilize idle soils and failure to maintain the basin skimmer device.

08/30/2021 NOV and Administrative Fine ($1,000.00) issued to DiGioia- Suburban Excavating LLC for failure to utilize properly functioning sediment filtration controls during excavation dewatering activities. Per the approved plans, CC-18093 and CC-18923, the Windmiller Pointe Apartment site was required to have all discharged water, from pumping operations, controlled by sediment bags and inlet protection devices. The failure to implement the controls required by the approved SWP3 is a violation of Columbus City Code 1145.

08/30/2021 NOV and Administrative Fine ($1,000.00) issued to Elite Excavating Company of Ohio for the Illicit Discharge for sediment-laden water being discharged without a sediment bag properly fitted to the discharge hose at Williams & Behm HSTS Elimination, CC-18092. Thus per the approved plan, pumping operations requires sediment-laden water to be controlled by sediment bags and inlet protection devices.

11/10/2021 NOV and Administrative Fine ($6,000.00) issued to Connect Realty LLC for failure to install and maintain Stormwater pollution control practices at the construction site for Northern Place Townhomes Redevelopment under plan CC-18390. The violations included failure to install and maintain effective perimeter

erosion and sediment controls, failure to install and maintain effective inlet sediment controls, failure to stabilize idle soil, failure to install a functional concrete washout area, failure to install an adequate construction entrance and failure to clean the streets.

5.1.3 Notices of Violation, Post-Construction BMP Maintenance

No notices of violation were issued to property owners for non-compliance with the post construction BMP maintenance requirements during the January 1, 2021, to December 31, 2021, reporting period.

5.2 Summary of Public Education and Employee Training Programs

The City of Columbus recognizes that public education and participation and employee education programs that provide information, resources and engagement opportunities to residents, business owners, and city employees can result in improved water quality. The following summarizes stormwater public and employee education opportunities that were provided in 2021.

5.2.1 Public Education and Outreach Summary

The City's stormwater public education and outreach programs are focused on the following topics:

1. Residential: pet waste; yard maintenance; and methods of keeping stormwater onsite.
2. Industrial/commercial: water quality impacts associated with land development; the importance of good housekeeping; and fats, oil, and grease.

In 2021, the PUP campaign was able to attend one in person event. Even with less in person events, we still obtained over 300 pledges this year, through word of mouth and electronic promotions. PUP Kiosks continue to be maintained at 86 City parks and in the park land around our three reservoirs.

Get Grassy!, the City's yard maintenance program, continued implementation in 2021 and received 81 new pledges. Six lawn care companies and nurseries helped distribute 3,760 educational handouts that encourages residents to take the next step in managing lawns in a way that will protect water quality.

In addition to ongoing Blueprint education and engagement activities, Blueprint has collaborated with OSU SENR capstone programs to help our expand future generation's understanding of the importance of onsite stormwater management in residential areas. The students held a mock public meeting to gain awareness of the type of public outreach that is necessary for this kind of program.

The Home Contractor Outreach program, which promotes good housekeeping practices for disposal of paint and concrete materials, continued to promote educational messaging to the contractor community. This program released short videos to promote paint and concrete wastewater messaging incorporated on website, LinkedIn and other social media and have received 450 views. Dry It, Don't Dump It postcards were mailed to 4,300 Central Ohio-based licensed small contractors, 1,260 of which are located in Columbus. This program also developed relationships with two new Sherwin Williams stores in Grandview and Northern Columbus. Dry It, Don't Dump It brochures are now available in both locations.

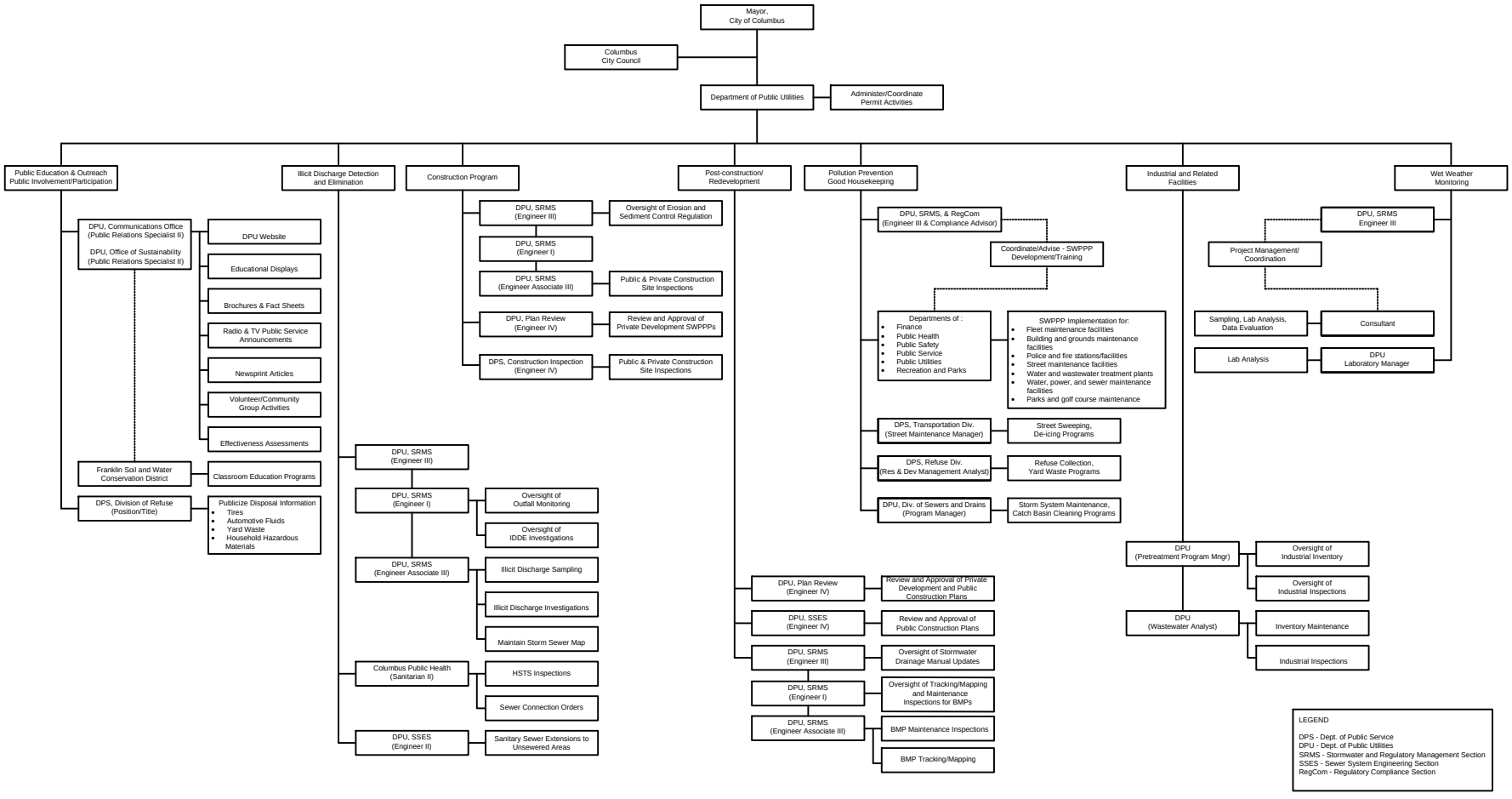
Overall outreach of stormwater messages continued on DPU social media, through promoting responsible stewardship, sharing of neighborhood cleanup events, and promotion of the storm drain marker program.

5.2.2 Employee Education Summary

The City continues to increase stormwater pollution awareness amongst its employees by providing information on stormwater pollution prevention at new employee orientations and during training conducted to familiarize staff with Stormwater Pollution Prevention Plan contents. Under its EMS, the Department of Public Utilities (DPU) has developed on-line training modules that cover BMPs for various DPU activities such as vehicle washing. The City will continue to provide training on stormwater pollution practices to personnel that work at operations and maintenance facilities. See Appendix G for a summary of employee training activities.

City of Columbus
NPDES Stormwater Program

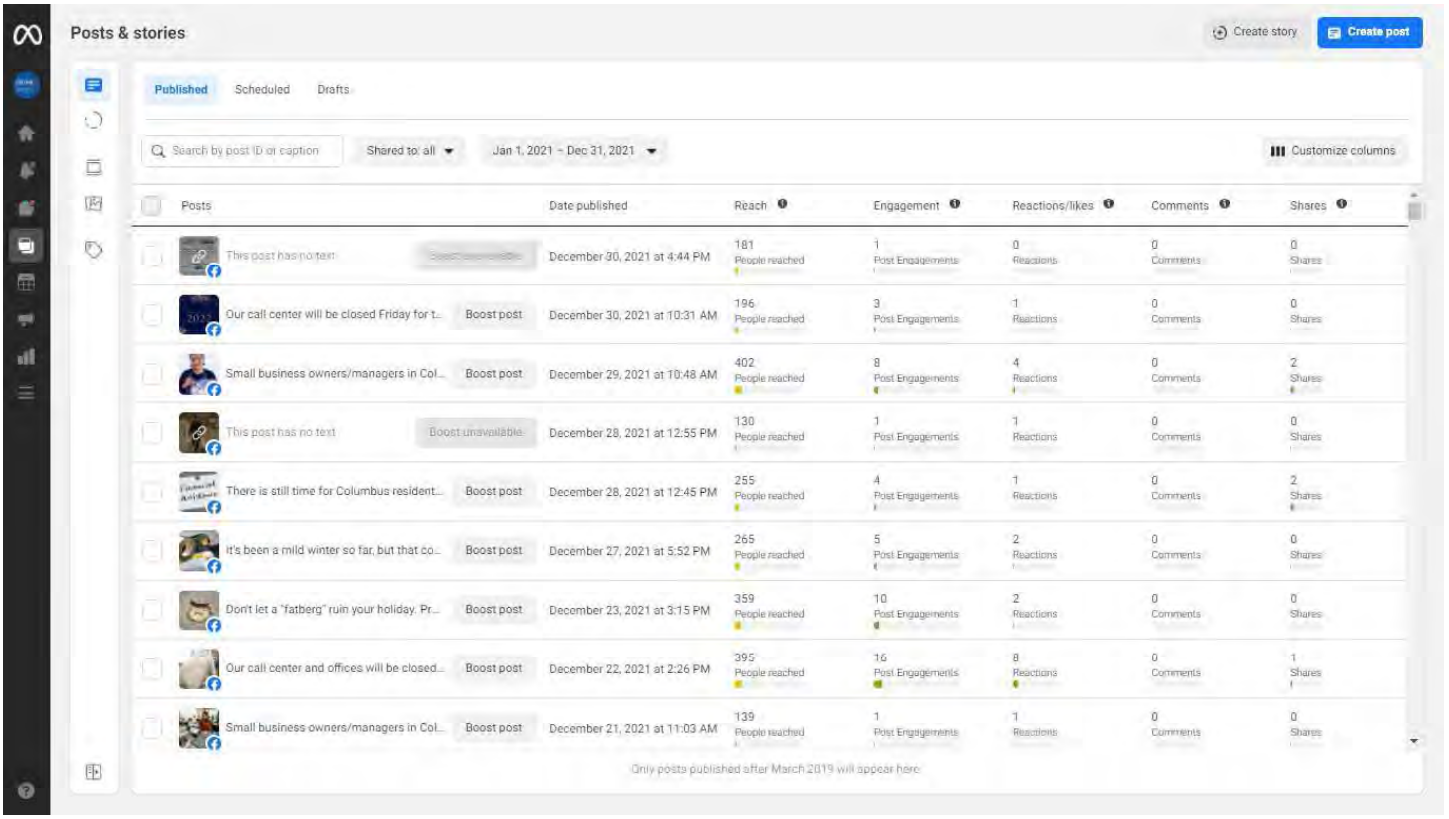
Table of Organization



Date: 2021-MAR-31

Public Education and Outreach
2021 Activity Summary

Categories	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Storm drain markers requested (seasonal, usually distributed in increments of 15)	-	-	15	75	-	30	-	90	90	15	-	-	315
River Ranger guides requested	-	-	-	-	-	1	-	1	-	-	-	-	2
Bill inserts Total	-	-	-	(Home water quality tips, Storm Drain Marking, started 4/7) 64,089	(Home water quality tips, Storm Drain Marking) 83,381	(Home water quality tips, Storm Drain Marking) 77,877	(Home water quality tips, Storm Drain to 7/7; then Green-Spot, CSO/SSO FAQ) 15,715/ 74,537	(Green-Spot, CSO/SSO FAQ) 71,961	(Green-Spot, CSO/SSO FAQ) 69,069	(Green-Spot, CSO/SSO FAQ, ended 10/6) 12,053	-	-	468,682* (* total hard copies mailed, not counting online billing portal access
News releases	3 FB posts	4 FB posts	8 FB posts	17 FB posts	3 FB posts	5 FB post	10 FB posts	9 FB posts	12 FB posts	12 FB posts	7 FB posts	5 FB posts	95 FB posts
Waterway cleanups (seasonal)	-	-	-	-	-	-	-	-	1	-	-	-	1
Public service announcements	GTC-3	GTC-3	GTC-3	GTC-3	GTC-3	GTC-3	GTC-3	GTC-3	GTC-3	GTC-3	GTC-3	GTC-3	12 months
Info available on Web?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	12 months
Special events/other	FSWCD native plant garden kits/ Sust. Cols. illegal dumping	Wipes and grease reminder /clean storm drains/ stop invasives	World Water Day/Invasive vs native plants workshop/wipes and grease reminder	Earth Day and Arbor Day reminders/ Sust. Cols. trash pickup info	Shared two litter pickup initiatives/SWACO HHW disposal	Shared two partner group cleanup events/"flushable" products reminder	Shared two partner group cleanup events/drug disposal day reminders	Shared two partner group cleanup events	Watershed Hoover cleanup reminder /Source Water Protection Week	Watershed cleanup at Hoover Reservoir/drug disposal day reminders	Holiday meals "FOG" reminder	Holiday meals FOG/flushable wipes reminders, Whetstone Park cleanup share	5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December 30, 2021 at 4:44 PM
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Our call center will be closed Friday for t...
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December 30, 2021 at 10:31 AM
196 People reached
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Small business owners/managers in Col...
Boost post
December 29, 2021 at 10:48 AM
402 People reached
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4 Reactions
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2 Shares
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December 28, 2021 at 12:55 PM
130 People reached
1 Post Engagements
1 Reactions
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0 Shares
There is still time for Columbus resident...
Boost post
December 28, 2021 at 12:45 PM
255 People reached
4 Post Engagements
1 Reactions
0 Comments
2 Shares
It's been a mild winter so far, but that co...
Boost post
December 27, 2021 at 5:52 PM
265 People reached
5 Post Engagements
2 Reactions
0 Comments
0 Shares
Don't let a "fatberg" ruin your holiday. Pr...
Boost post
December 23, 2021 at 3:15 PM
359 People reached
10 Post Engagements
2 Reactions
0 Comments
0 Shares
Our call center and offices will be closed...
Boost post
December 22, 2021 at 2:26 PM
395 People reached
16 Post Engagements
8 Reactions
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Small business owners/managers in Col...
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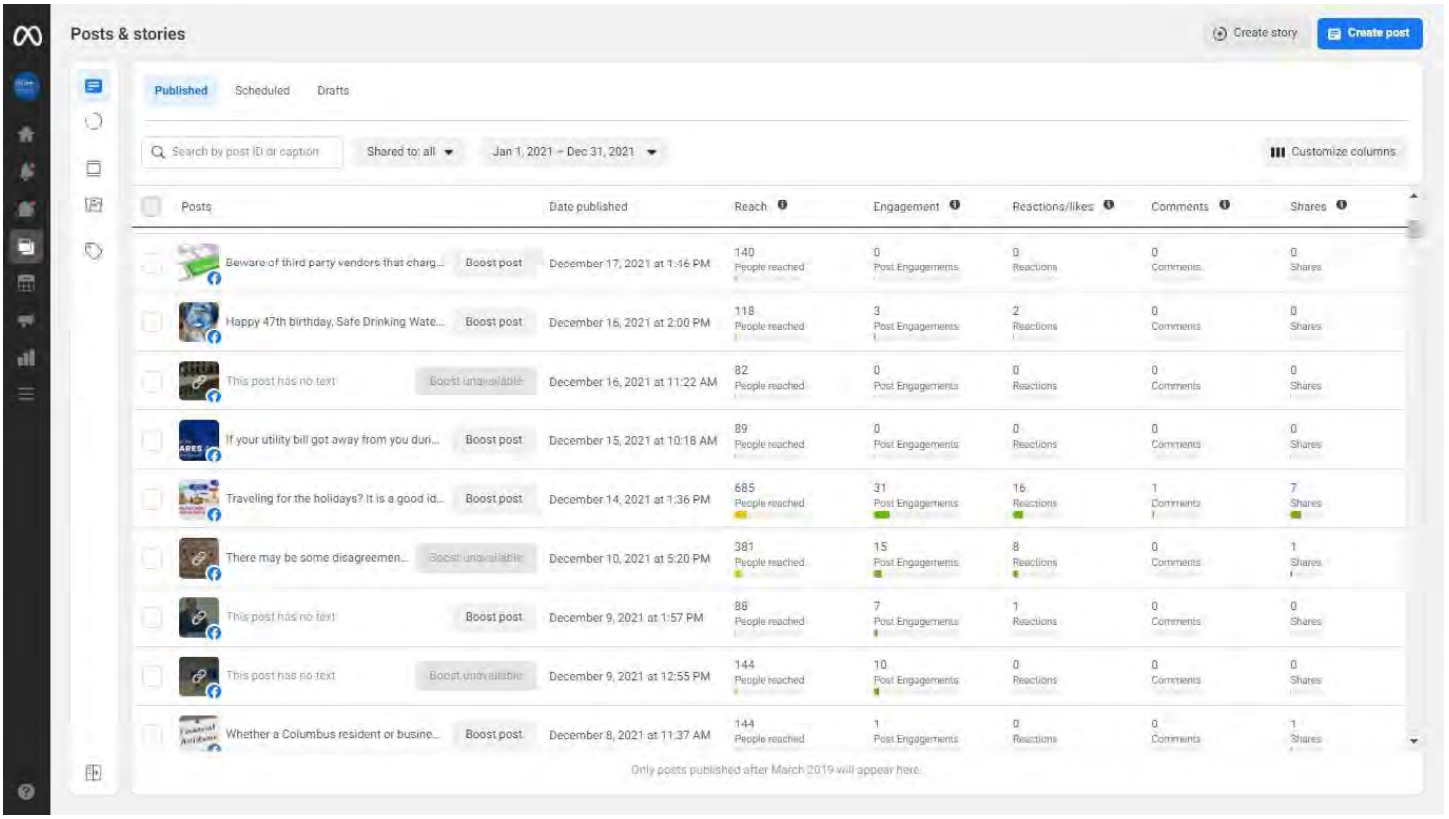
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Beware of third party vendors that charg...
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December 17, 2021 at 1:46 PM
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Happy 47th birthday, Safe Drinking Wate...
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December 16, 2021 at 2:00 PM
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2 Reactions
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0 Shares
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December 16, 2021 at 11:22 AM
82 People reached
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0 Reactions
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If your utility bill got away from you duri...
Boost post
December 15, 2021 at 10:18 AM
89 People reached
0 Post Engagements
0 Reactions
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Traveling for the holidays? It is a good id...
Boost post
December 14, 2021 at 1:36 PM
685 People reached
31 Post Engagements
16 Reactions
1 Comments
7 Shares
There may be some disagreemen...
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December 10, 2021 at 5:20 PM
381 People reached
15 Post Engagements
8 Reactions
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1 Shares
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December 9, 2021 at 1:57 PM
88 People reached
7 Post Engagements
1 Reactions
0 Comments
0 Shares
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December 9, 2021 at 12:55 PM
144 People reached
10 Post Engagements
0 Reactions
0 Comments
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Whether a Columbus resident or busine...
Boost post
December 8, 2021 at 11:37 AM
144 People reached
1 Post Engagements
0 Reactions
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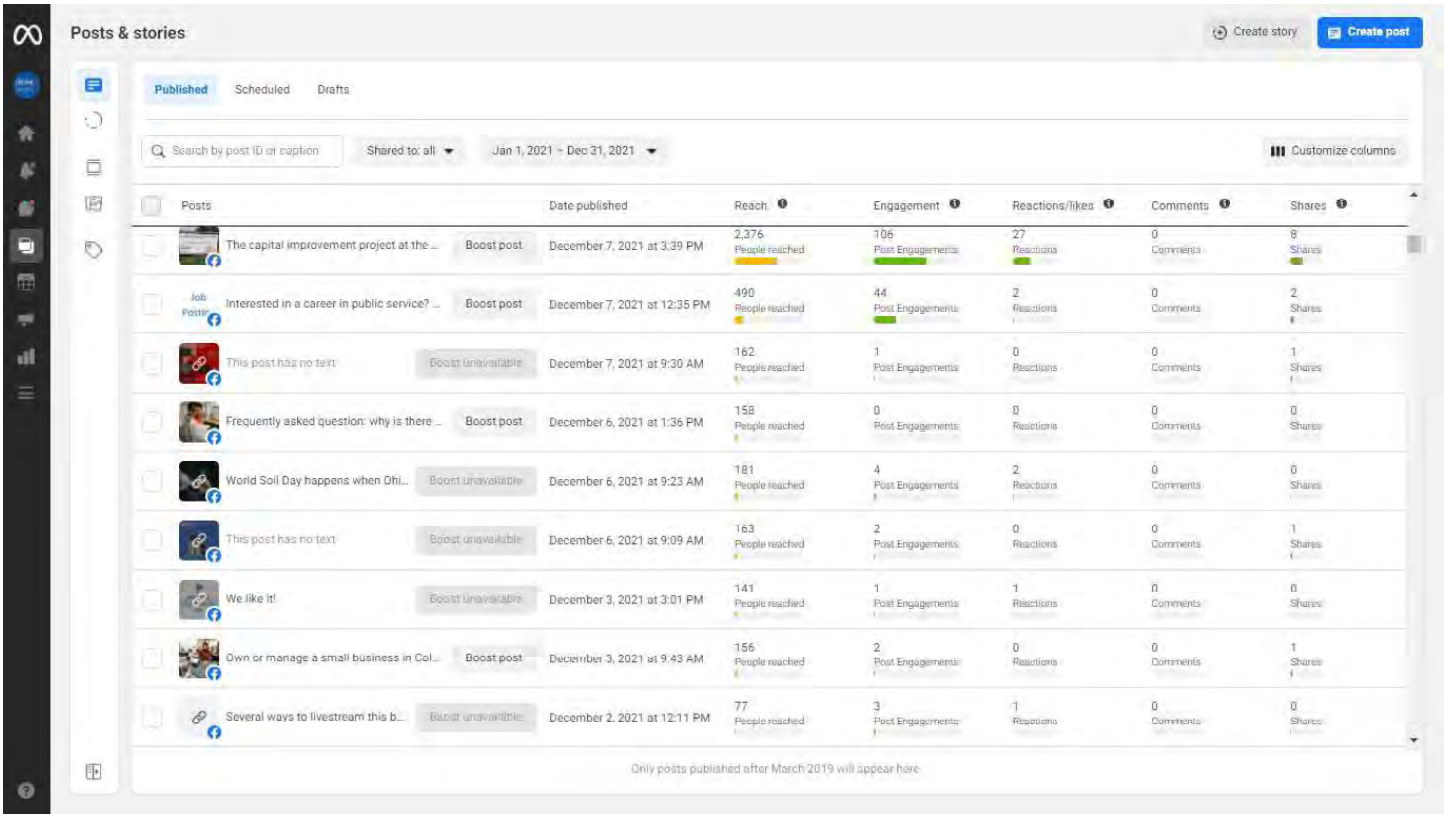
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The capital improvement project at the ... Boost post December 7, 2021 at 3:39 PM 2,376 People reached 106 Post Engagements 27 Reactions 0 Comments 8 Shares
Job Posting Interested in a career in public service? ... Boost post December 7, 2021 at 12:35 PM 490 People reached 44 Post Engagements 2 Reactions 0 Comments 2 Shares
This post has no text Boost unavailable December 7, 2021 at 9:30 AM 162 People reached 1 Post Engagements 0 Reactions 0 Comments 1 Shares
Frequently asked question: Why is there ... Boost post December 6, 2021 at 1:36 PM 158 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
World Soil Day happens when Ohi... Boost unavailable December 6, 2021 at 9:23 AM 181 People reached 4 Post Engagements 2 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable December 6, 2021 at 9:09 AM 163 People reached 2 Post Engagements 0 Reactions 0 Comments 1 Shares
We like it! Boost unavailable December 3, 2021 at 3:01 PM 141 People reached 1 Post Engagements 1 Reactions 0 Comments 0 Shares
Own or manage a small business in Col... Boost post December 3, 2021 at 9:43 AM 156 People reached 2 Post Engagements 0 Reactions 0 Comments 1 Shares
Several ways to livestream this b... Boost unavailable December 2, 2021 at 12:11 PM 77 People reached 3 Post Engagements 1 Reactions 0 Comments 0 Shares
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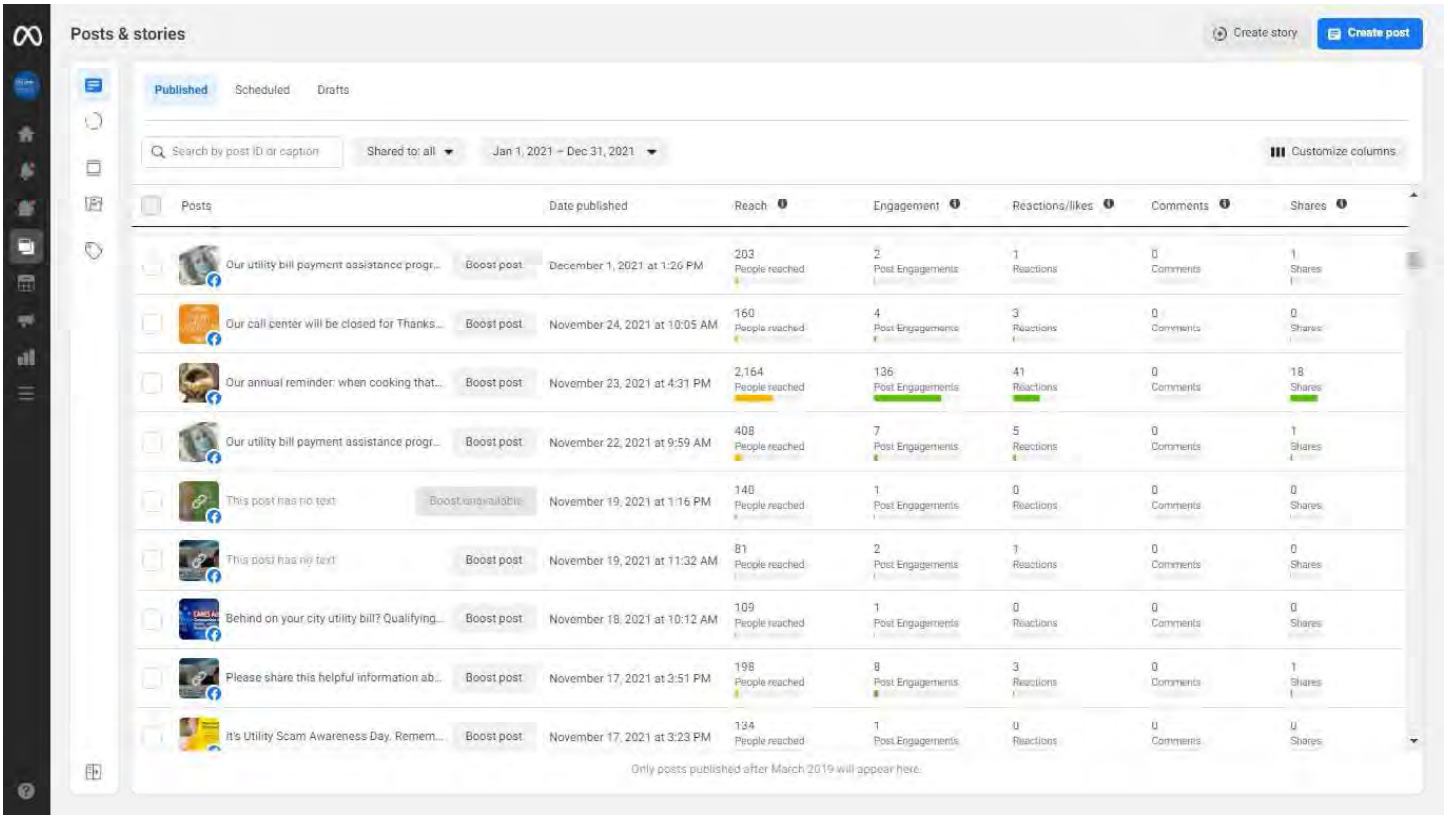
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Our utility bill payment assistance progr... Boost post December 1, 2021 at 1:26 PM 203 People reached 2 Post Engagements 1 Reactions 0 Comments 1 Shares
Our call center will be closed for Thanks... Boost post November 24, 2021 at 10:05 AM 160 People reached 4 Post Engagements 3 Reactions 0 Comments 0 Shares
Our annual reminder: when cooking that... Boost post November 23, 2021 at 4:31 PM 2,164 People reached 136 Post Engagements 41 Reactions 0 Comments 18 Shares
Our utility bill payment assistance progr... Boost post November 22, 2021 at 9:59 AM 408 People reached 7 Post Engagements 5 Reactions 0 Comments 1 Shares
This post has no text Boost unavailable November 19, 2021 at 1:16 PM 140 People reached 1 Post Engagements 0 Reactions 0 Comments 0 Shares
This post has no text Boost post November 19, 2021 at 11:32 AM 81 People reached 2 Post Engagements 1 Reactions 0 Comments 0 Shares
Behind on your city utility bill? Qualifying... Boost post November 18, 2021 at 10:12 AM 109 People reached 1 Post Engagements 0 Reactions 0 Comments 0 Shares
Please share this helpful information ab... Boost post November 17, 2021 at 3:51 PM 198 People reached 8 Post Engagements 3 Reactions 0 Comments 1 Shares
It's Utility Scam Awareness Day. Remem... Boost post November 17, 2021 at 3:23 PM 134 People reached 1 Post Engagements 0 Reactions 0 Comments 0 Shares
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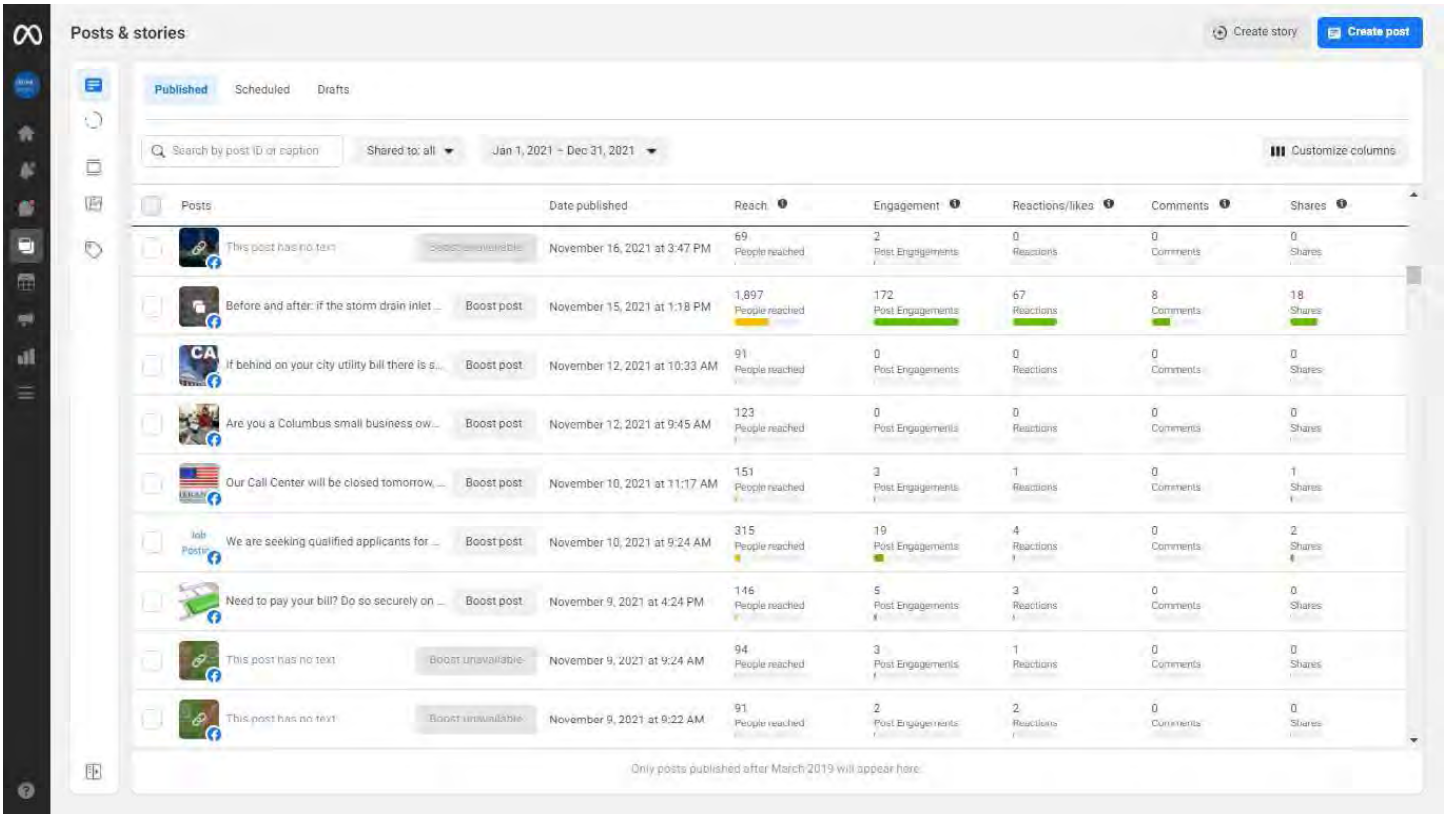
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November 16, 2021 at 3:47 PM
69 People reached
2 Post Engagements
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Before and after: if the storm drain inlet ...
Boost post
November 15, 2021 at 1:18 PM
1,897 People reached
172 Post Engagements
67 Reactions
8 Comments
18 Shares
If behind on your city utility bill there is s...
November 12, 2021 at 10:33 AM
91 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Are you a Columbus small business ow...
November 12, 2021 at 9:45 AM
123 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Our Call Center will be closed tomorrow, ...
November 10, 2021 at 11:17 AM
151 People reached
3 Post Engagements
1 Reaction
0 Comments
1 Share
We are seeking qualified applicants for ...
November 10, 2021 at 9:24 AM
315 People reached
19 Post Engagements
4 Reactions
0 Comments
2 Shares
Need to pay your bill? Do so securely on ...
November 9, 2021 at 4:24 PM
146 People reached
5 Post Engagements
3 Reactions
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November 9, 2021 at 9:24 AM
94 People reached
3 Post Engagements
1 Reaction
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November 9, 2021 at 9:22 AM
91 People reached
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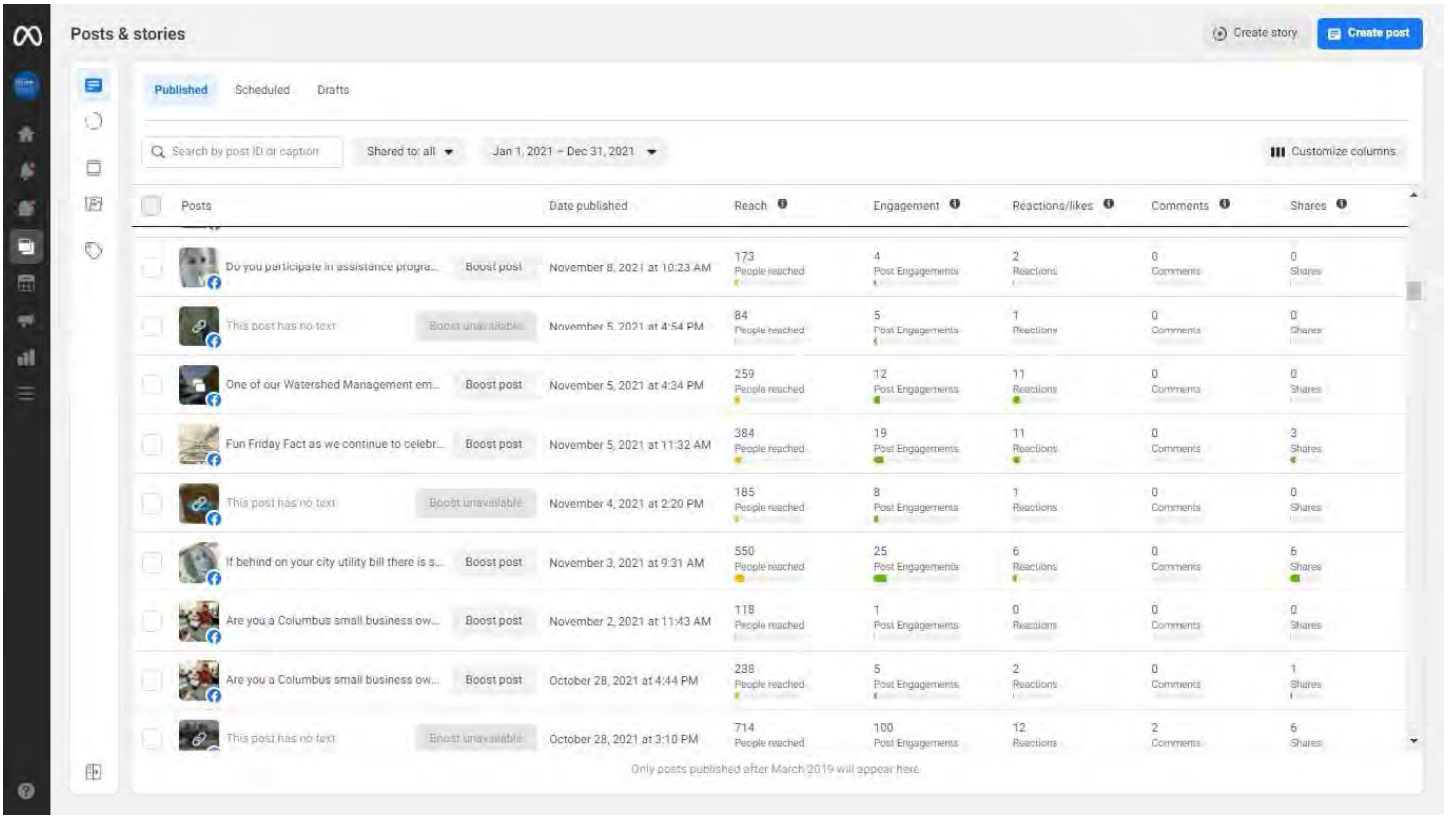
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Do you participate in assistance progra...
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November 8, 2021 at 10:23 AM
173 People reached
4 Post Engagements
2 Reactions
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November 5, 2021 at 4:54 PM
84 People reached
5 Post Engagements
1 Reaction
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One of our Watershed Management em...
Boost post
November 5, 2021 at 4:34 PM
259 People reached
12 Post Engagements
11 Reactions
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Fun Friday Fact as we continue to celebr...
Boost post
November 5, 2021 at 11:32 AM
384 People reached
19 Post Engagements
11 Reactions
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November 4, 2021 at 2:20 PM
185 People reached
8 Post Engagements
1 Reaction
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If behind on your city utility bill there is s...
Boost post
November 3, 2021 at 9:31 AM
550 People reached
25 Post Engagements
6 Reactions
0 Comments
6 Shares
Are you a Columbus small business ow...
Boost post
November 2, 2021 at 11:43 AM
118 People reached
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0 Comments
0 Shares
Are you a Columbus small business ow...
Boost post
October 28, 2021 at 4:44 PM
238 People reached
5 Post Engagements
2 Reactions
0 Comments
1 Share
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October 28, 2021 at 3:10 PM
714 People reached
100 Post Engagements
12 Reactions
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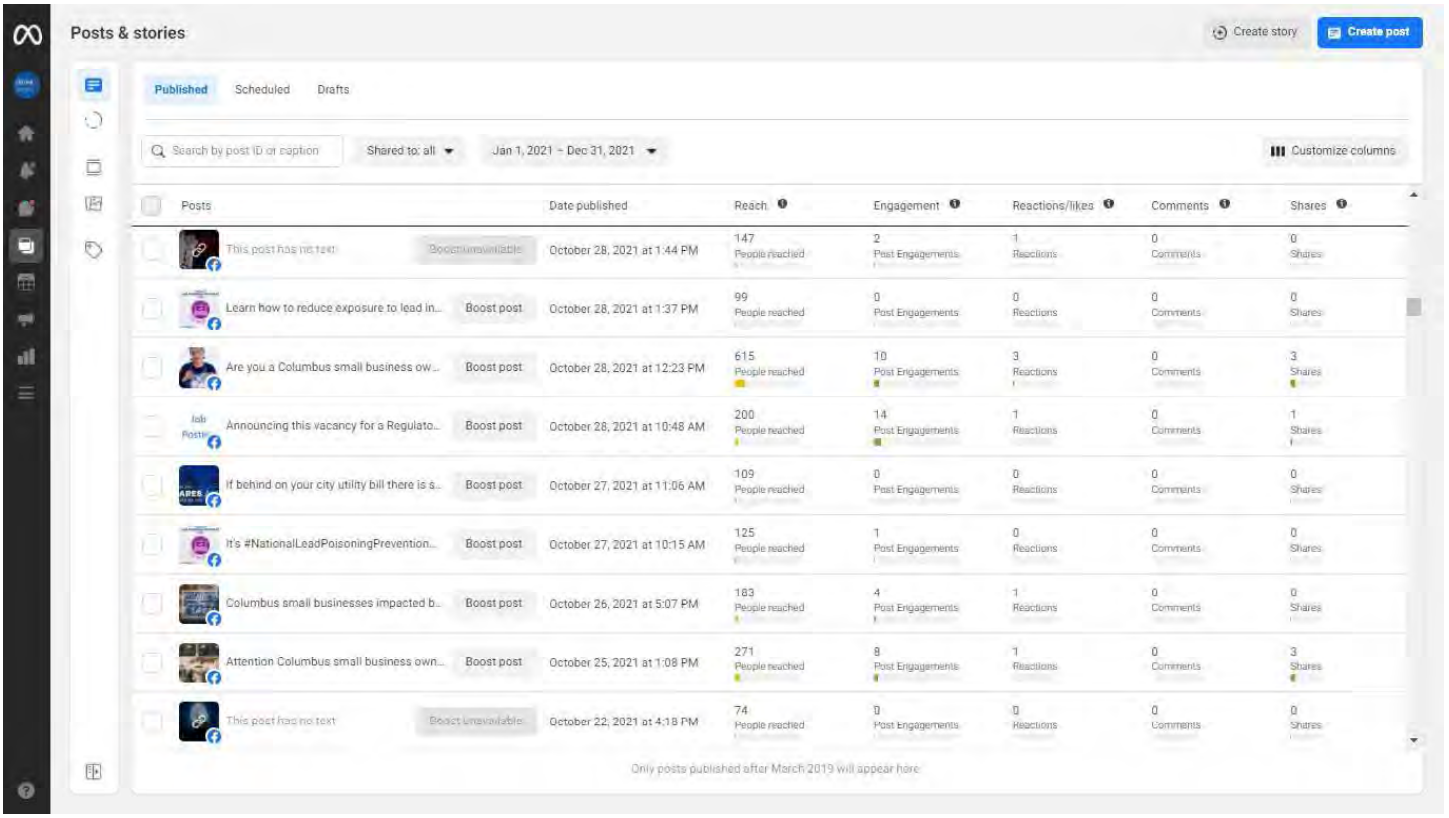
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October 28, 2021 at 1:44 PM
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Learn how to reduce exposure to lead in...
Boost post
October 28, 2021 at 1:37 PM
99 People reached
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0 Reactions
0 Comments
0 Shares
Are you a Columbus small business ow...
Boost post
October 28, 2021 at 12:23 PM
615 People reached
10 Post Engagements
3 Reactions
0 Comments
3 Shares
Announcing this vacancy for a Regulato...
Boost post
October 28, 2021 at 10:48 AM
200 People reached
14 Post Engagements
1 Reactions
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1 Shares
If behind on your city utility bill there is s...
Boost post
October 27, 2021 at 11:06 AM
109 People reached
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It's #NationalLeadPoisoningPrevention...
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October 27, 2021 at 10:15 AM
125 People reached
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Columbus small businesses impacted b...
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October 26, 2021 at 5:07 PM
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Attention Columbus small business own...
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October 25, 2021 at 1:08 PM
271 People reached
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October 22, 2021 at 4:18 PM
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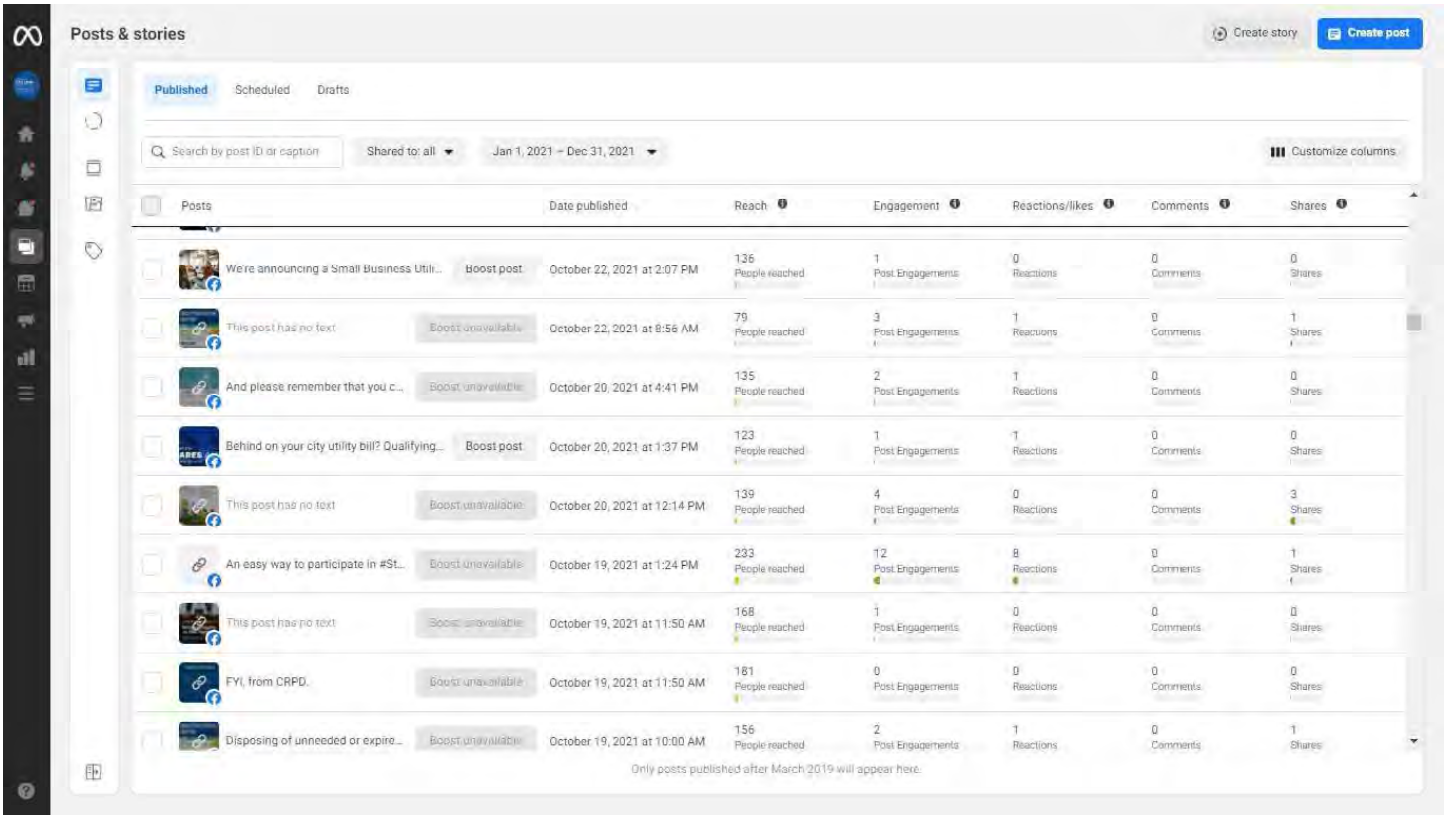
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Engagement
Reactions/likes
Comments
Shares
We're announcing a Small Business Utili...
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October 22, 2021 at 2:07 PM
136 People reached
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0 Comments
0 Shares
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October 22, 2021 at 8:56 AM
79 People reached
3 Post Engagements
1 Reactions
0 Comments
1 Shares
And please remember that you c...
Boost unavailable
October 20, 2021 at 4:41 PM
135 People reached
2 Post Engagements
1 Reactions
0 Comments
0 Shares
Behind on your city utility bill? Qualifying...
Boost post
October 20, 2021 at 1:37 PM
123 People reached
1 Post Engagements
1 Reactions
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October 20, 2021 at 12:14 PM
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0 Comments
3 Shares
An easy way to participate in #St...
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October 19, 2021 at 1:24 PM
233 People reached
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8 Reactions
0 Comments
1 Shares
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October 19, 2021 at 11:50 AM
168 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
FYI, from CRPD.
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October 19, 2021 at 11:50 AM
181 People reached
0 Post Engagements
0 Reactions
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0 Shares
Disposing of unneeded or expire...
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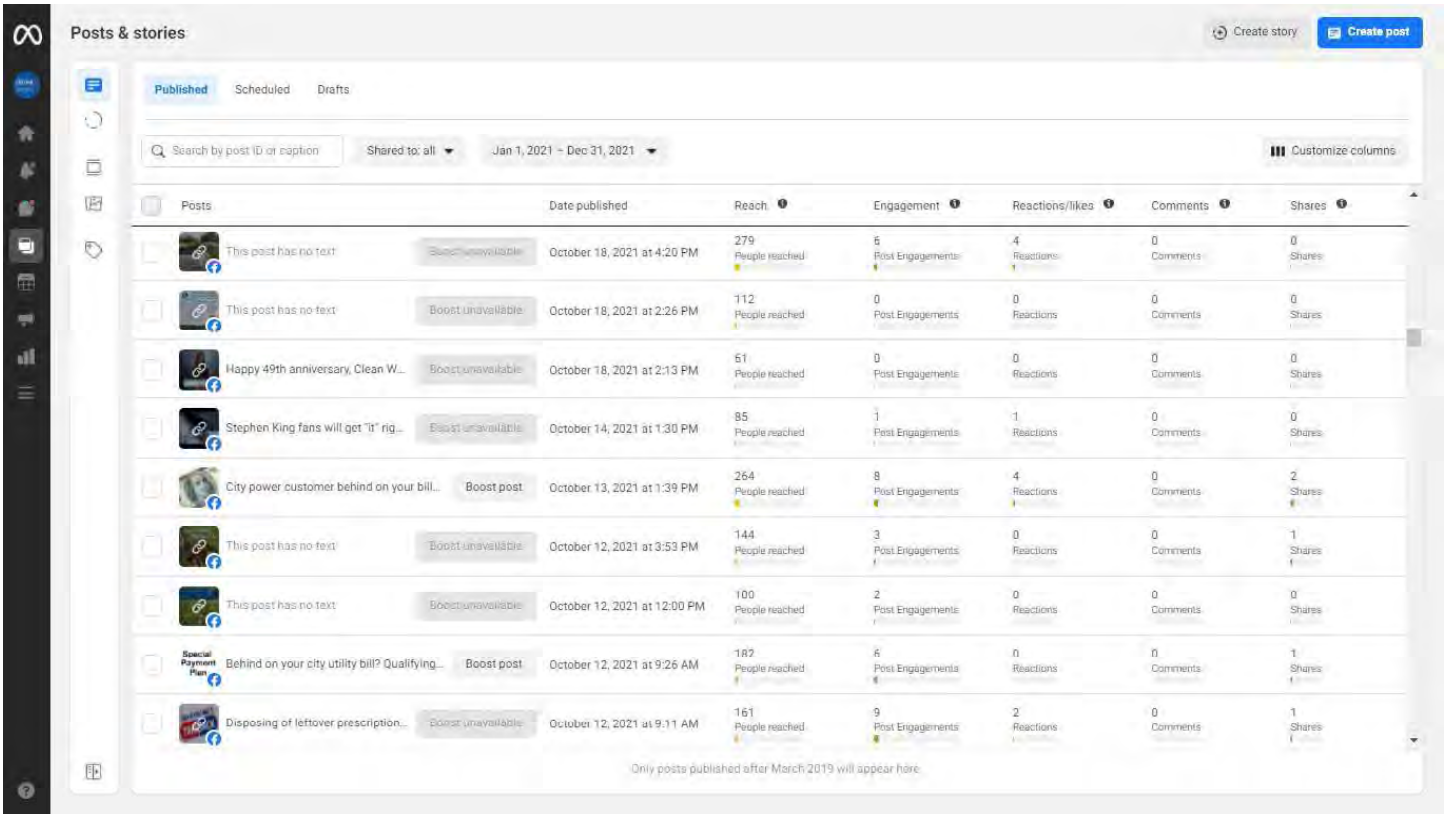
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Comments
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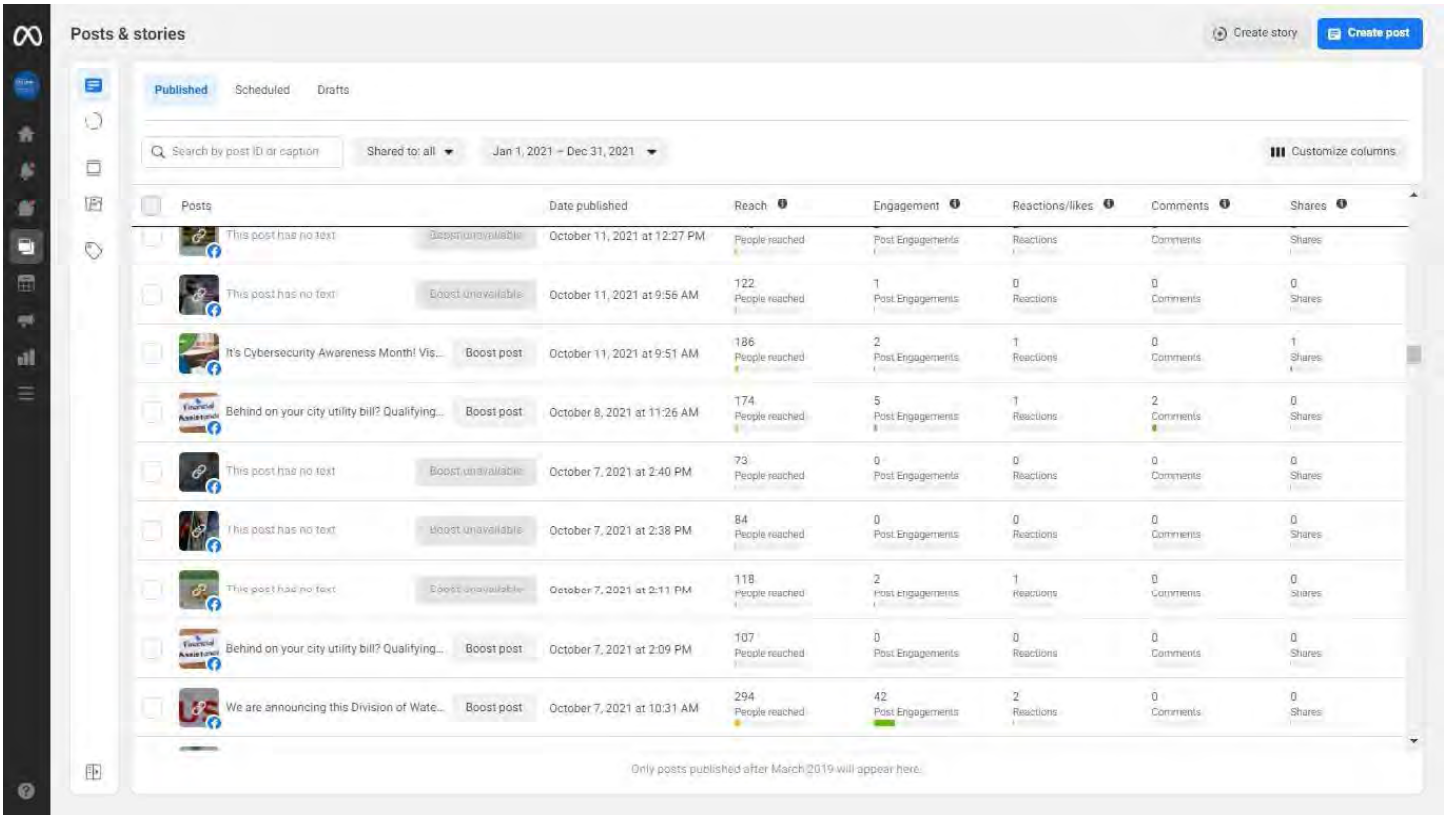
Boost unavailable
October 18, 2021 at 4:20 PM
279 People reached
6 Post Engagements
4 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
October 18, 2021 at 2:26 PM
112 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Happy 49th anniversary, Clean W...
Boost unavailable
October 18, 2021 at 2:13 PM
51 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Stephen King fans will get "it" rig...
Boost unavailable
October 14, 2021 at 1:30 PM
85 People reached
1 Post Engagements
1 Reactions
0 Comments
0 Shares
City power customer behind on your bill...
Boost post
October 13, 2021 at 1:39 PM
264 People reached
8 Post Engagements
4 Reactions
0 Comments
2 Shares
This post has no text
Boost unavailable
October 12, 2021 at 3:53 PM
144 People reached
3 Post Engagements
0 Reactions
0 Comments
1 Shares
This post has no text
Boost unavailable
October 12, 2021 at 12:00 PM
100 People reached
2 Post Engagements
0 Reactions
0 Comments
0 Shares
Behind on your city utility bill? Qualifying...
Boost post
October 12, 2021 at 9:26 AM
182 People reached
6 Post Engagements
0 Reactions
0 Comments
1 Shares
Disposing of leftover prescription...
Boost unavailable
October 12, 2021 at 9:11 AM
161 People reached
9 Post Engagements
2 Reactions
0 Comments
1 Shares
Only posts published after March 2019 will appear here.


Posts & stories
Create story
Create post
Published
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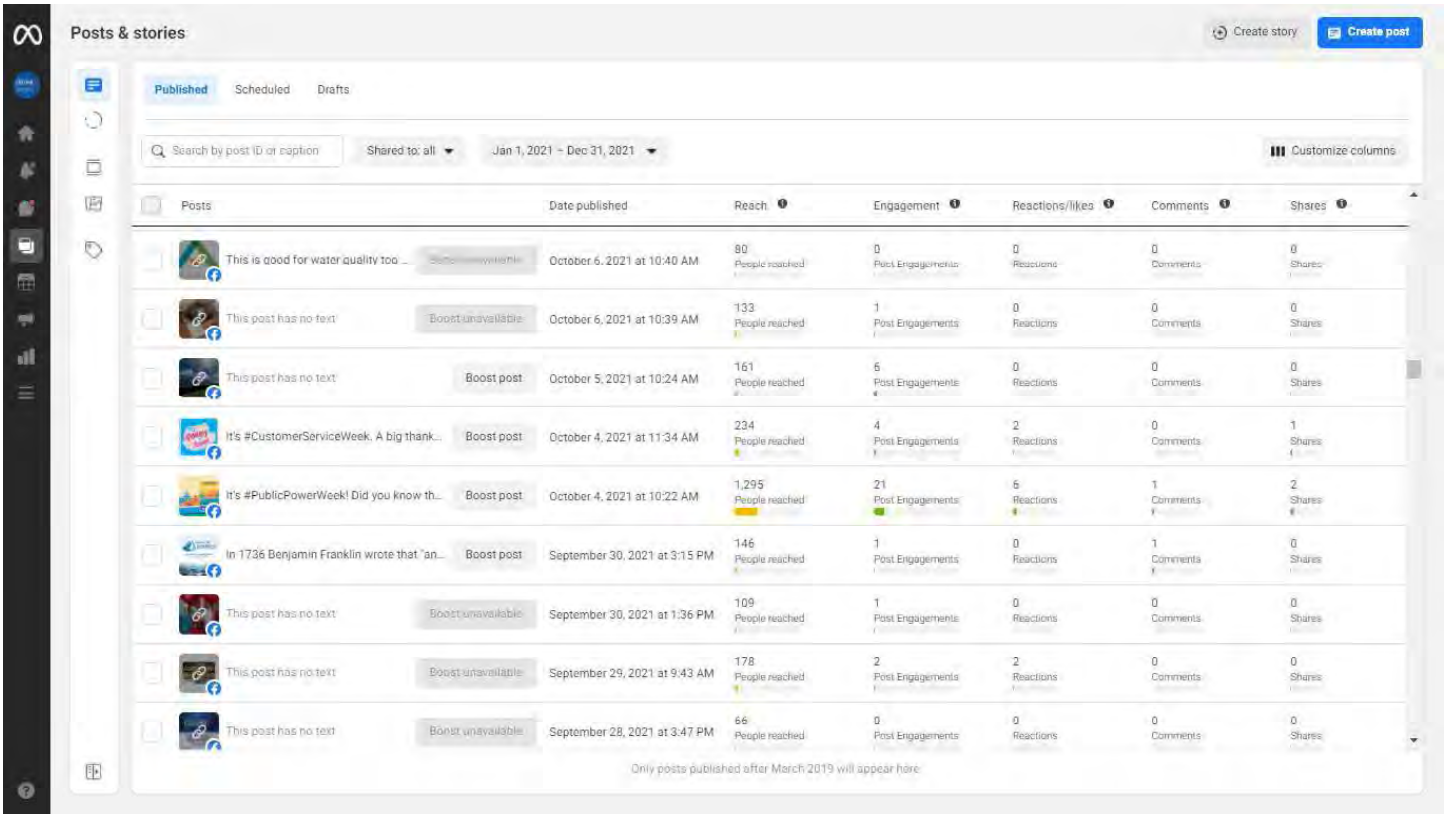
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
This post has no text
Boost unavailable
October 11, 2021 at 12:27 PM
This post has no text
Boost unavailable
October 11, 2021 at 9:56 AM
122 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
It's Cybersecurity Awareness Month! Vis...
Boost post
October 11, 2021 at 9:51 AM
186 People reached
2 Post Engagements
1 Reactions
0 Comments
1 Shares
Behind on your city utility bill? Qualifying...
Boost post
October 8, 2021 at 11:26 AM
174 People reached
5 Post Engagements
1 Reactions
2 Comments
0 Shares
This post has no text
Boost unavailable
October 7, 2021 at 2:40 PM
73 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
October 7, 2021 at 2:38 PM
84 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
October 7, 2021 at 2:11 PM
118 People reached
2 Post Engagements
1 Reactions
0 Comments
0 Shares
Behind on your city utility bill? Qualifying...
Boost post
October 7, 2021 at 2:09 PM
107 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
We are announcing this Division of Wate...
Boost post
October 7, 2021 at 10:31 AM
294 People reached
42 Post Engagements
2 Reactions
0 Comments
0 Shares
Only posts published after March 2019 will appear here.


Posts & stories
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Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
This is good for water quality too ...
October 6, 2021 at 10:40 AM
80 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
October 6, 2021 at 10:39 AM
133 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost post
October 5, 2021 at 10:24 AM
161 People reached
6 Post Engagements
0 Reactions
0 Comments
0 Shares
It's #CustomerServiceWeek. A big thank...
Boost post
October 4, 2021 at 11:34 AM
234 People reached
4 Post Engagements
2 Reactions
0 Comments
1 Shares
It's #PublicPowerWeek! Did you know th...
Boost post
October 4, 2021 at 10:22 AM
1,295 People reached
21 Post Engagements
6 Reactions
1 Comments
2 Shares
In 1736 Benjamin Franklin wrote that "an...
Boost post
September 30, 2021 at 3:15 PM
146 People reached
1 Post Engagements
0 Reactions
1 Comments
0 Shares
This post has no text
Boost unavailable
September 30, 2021 at 1:36 PM
109 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
September 29, 2021 at 9:43 AM
178 People reached
2 Post Engagements
2 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
September 28, 2021 at 3:47 PM
66 People reached
0 Post Engagements
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0 Comments
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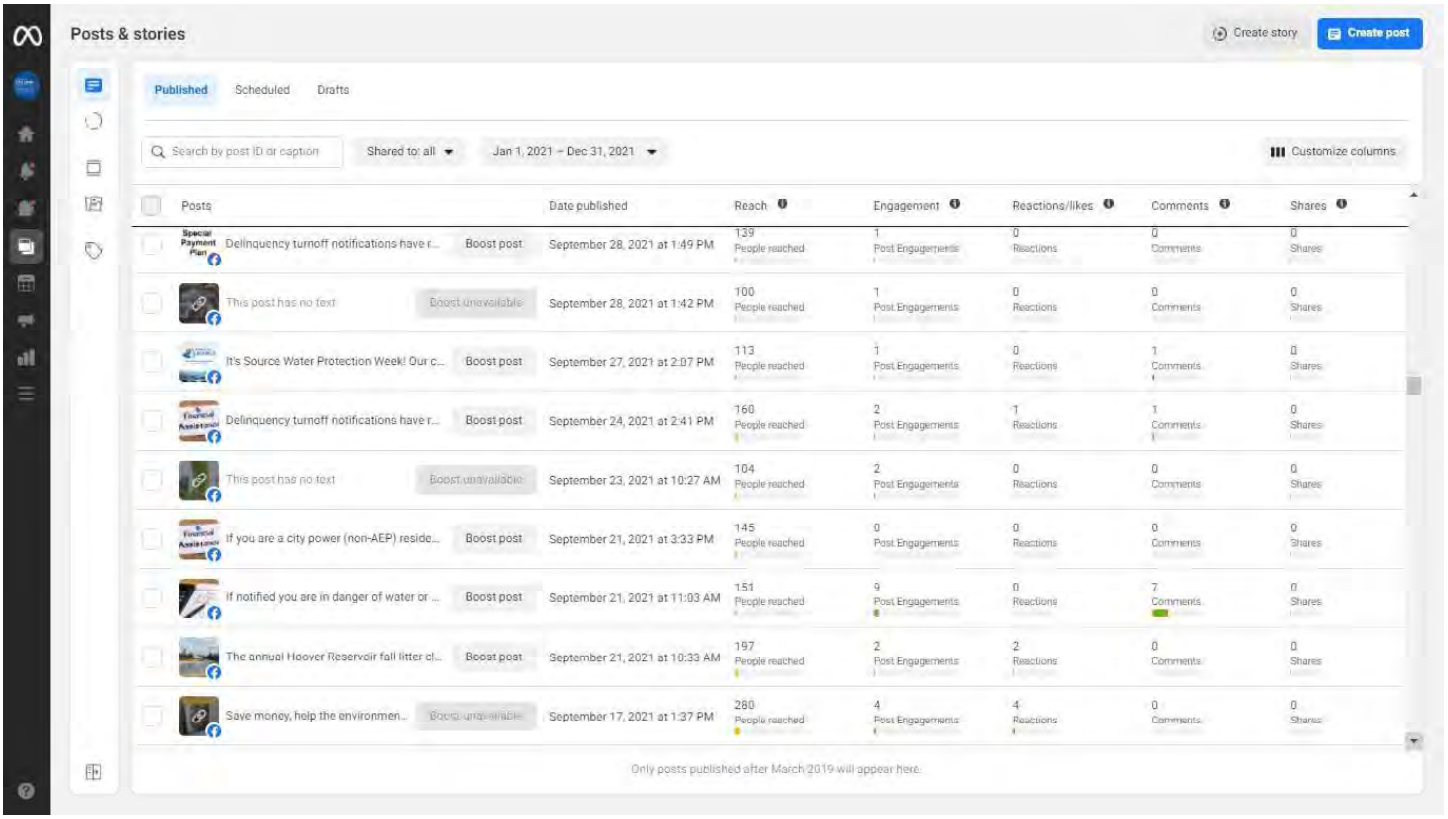
Only posts published after March 2019 will appear here.


Posts & stories
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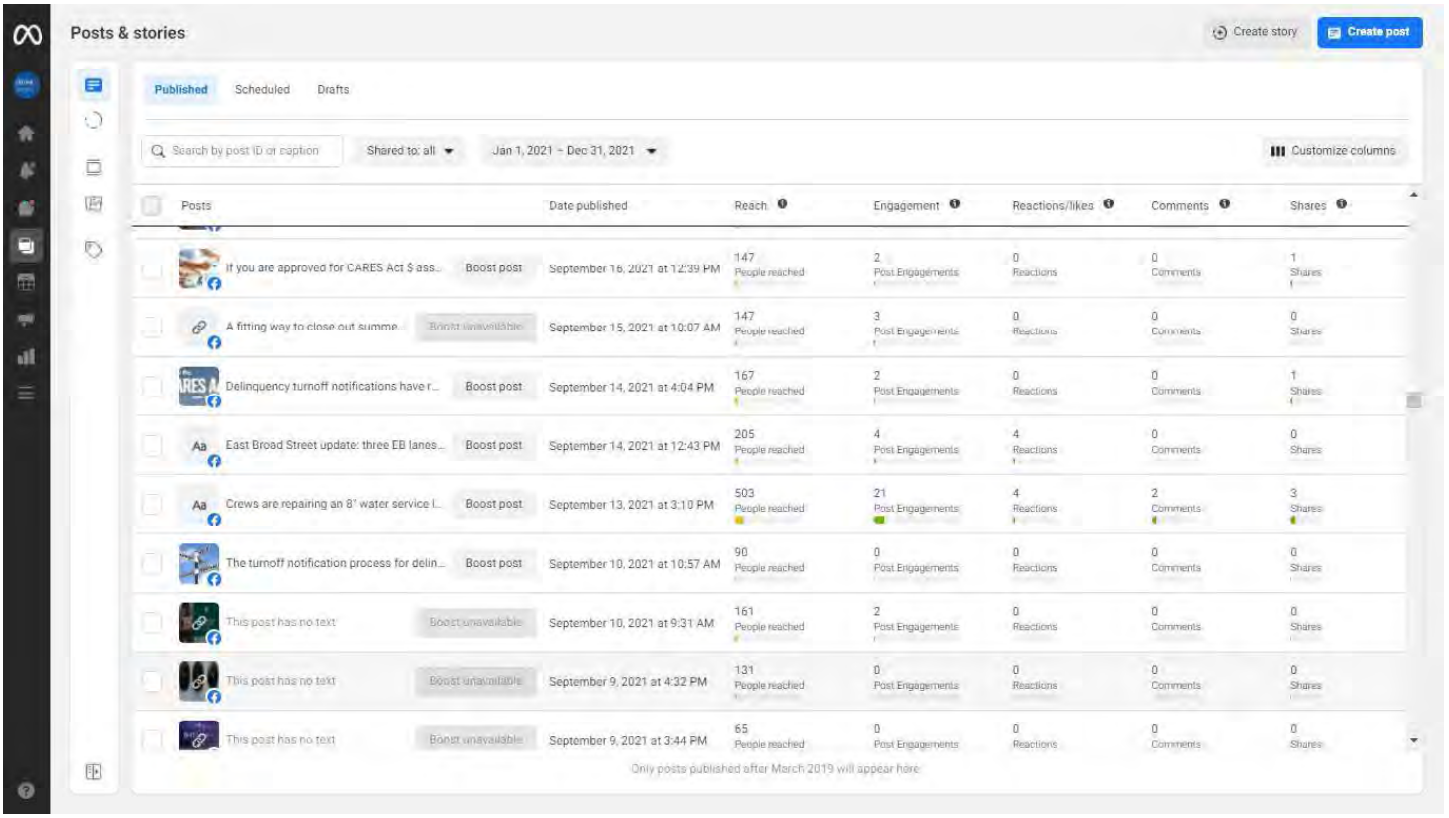
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
Delinquency turnoff notifications have r...
Boost post
September 28, 2021 at 1:49 PM
139 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
September 28, 2021 at 1:42 PM
100 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
It's Source Water Protection Week! Our c...
Boost post
September 27, 2021 at 2:07 PM
113 People reached
1 Post Engagements
0 Reactions
1 Comments
0 Shares
Delinquency turnoff notifications have r...
Boost post
September 24, 2021 at 2:41 PM
160 People reached
2 Post Engagements
1 Reactions
1 Comments
0 Shares
This post has no text
Boost unavailable
September 23, 2021 at 10:27 AM
104 People reached
2 Post Engagements
0 Reactions
0 Comments
0 Shares
If you are a city power (non-AEP) reside...
Boost post
September 21, 2021 at 3:33 PM
145 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
If notified you are in danger of water or ...
Boost post
September 21, 2021 at 11:03 AM
151 People reached
9 Post Engagements
0 Reactions
7 Comments
0 Shares
The annual Hoover Reservoir fall litter cl...
Boost post
September 21, 2021 at 10:33 AM
197 People reached
2 Post Engagements
2 Reactions
0 Comments
0 Shares
Save money, help the environmen...
Boost unavailable
September 17, 2021 at 1:37 PM
280 People reached
4 Post Engagements
4 Reactions
0 Comments
0 Shares
Only posts published after March 2019 will appear here.


Posts & stories
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Jan 1, 2021 - Dec 31, 2021
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Posts
Date published
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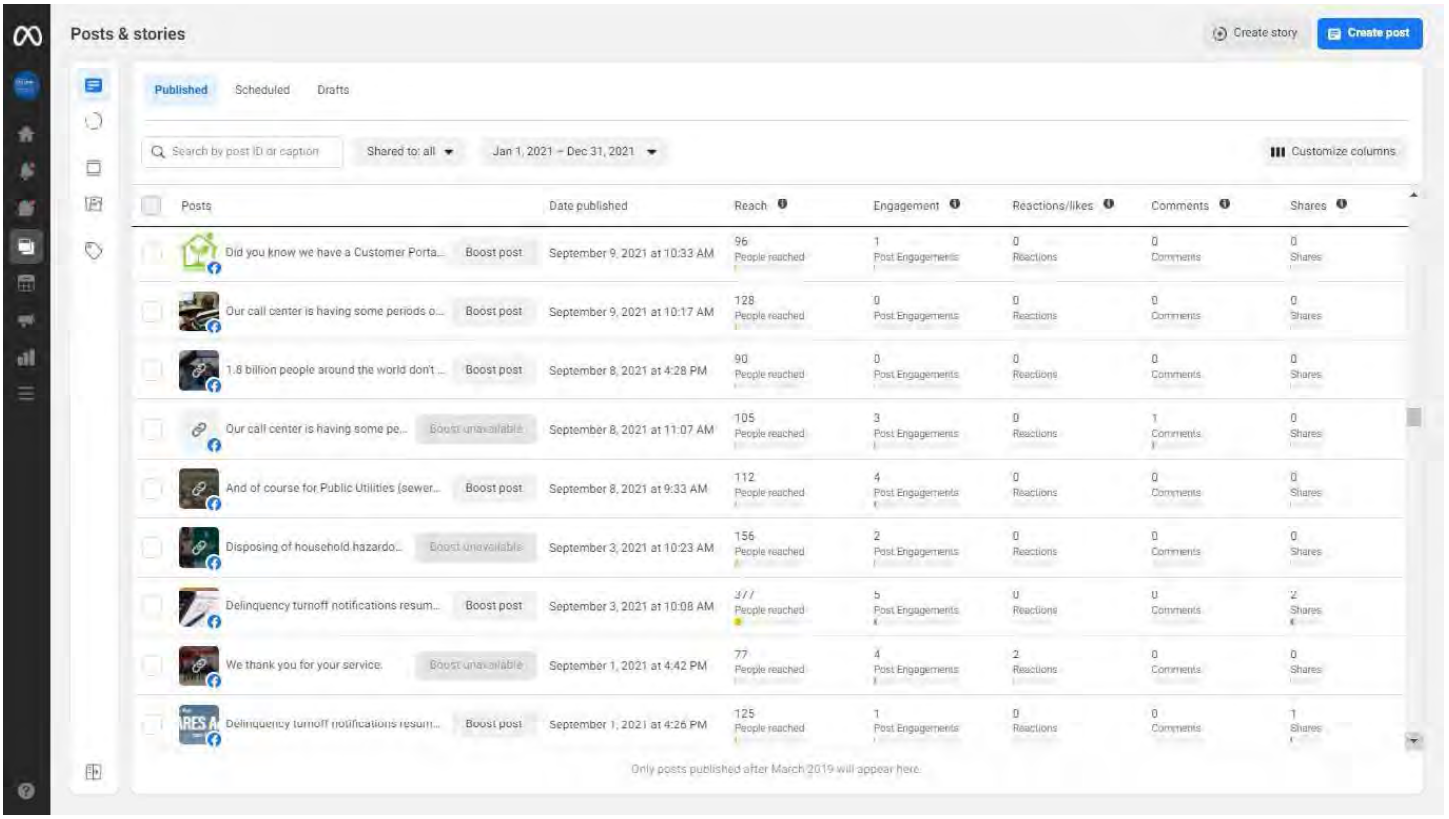
Engagement
Reactions/likes
Comments
Shares
If you are approved for CARES Act $ ass... Boost post September 16, 2021 at 12:39 PM 147 People reached 2 Post Engagements 0 Reactions 0 Comments 1 Shares
A fitting way to close out summe... Boost unavailable September 15, 2021 at 10:07 AM 147 People reached 3 Post Engagements 0 Reactions 0 Comments 0 Shares
Delinquency turnoff notifications have r... Boost post September 14, 2021 at 4:04 PM 167 People reached 2 Post Engagements 0 Reactions 0 Comments 1 Shares
East Broad Street update: three EB lanes... Boost post September 14, 2021 at 12:43 PM 205 People reached 4 Post Engagements 4 Reactions 0 Comments 0 Shares
Crews are repairing an 8" water service l... Boost post September 13, 2021 at 3:10 PM 503 People reached 21 Post Engagements 4 Reactions 2 Comments 3 Shares
The turnoff notification process for delin... Boost post September 10, 2021 at 10:57 AM 90 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable September 10, 2021 at 9:31 AM 161 People reached 2 Post Engagements 0 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable September 9, 2021 at 4:32 PM 131 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable September 9, 2021 at 3:44 PM 65 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
Only posts published after March 2019 will appear here.


Posts & stories
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Search by post ID or caption
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Customize columns
Posts
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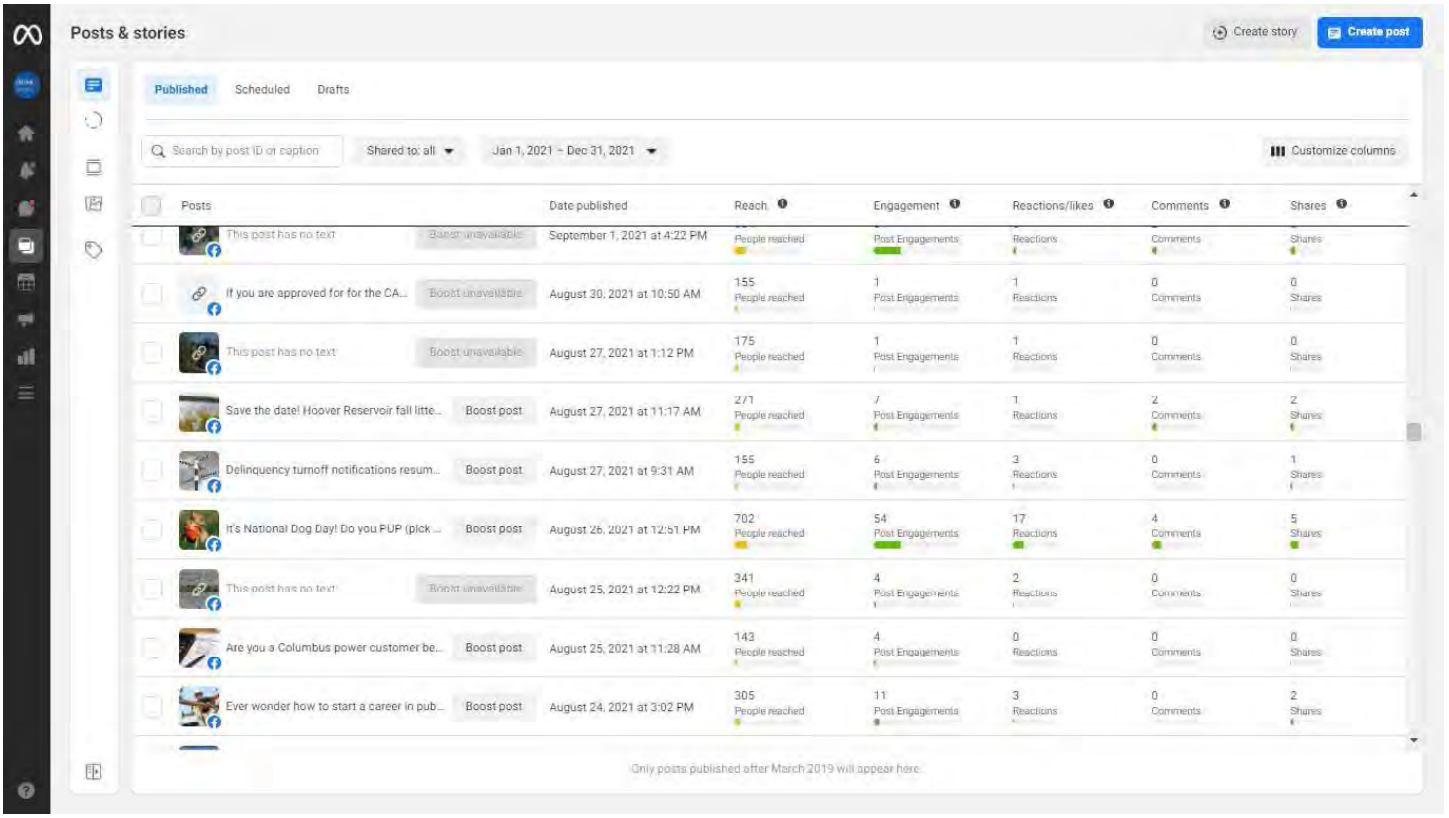
Reach
Engagement
Reactions/likes
Comments
Shares
Did you know we have a Customer Porta... Boost post September 9, 2021 at 10:33 AM 96 People reached 1 Post Engagements 0 Reactions 0 Comments 0 Shares
Our call center is having some periods o... Boost post September 9, 2021 at 10:17 AM 128 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
1.8 billion people around the world don't ... Boost post September 8, 2021 at 4:28 PM 90 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
Our call center is having some pe... Boost unavailable September 8, 2021 at 11:07 AM 105 People reached 3 Post Engagements 0 Reactions 1 Comments 0 Shares
And of course for Public Utilities (sewer... Boost post September 8, 2021 at 9:33 AM 112 People reached 4 Post Engagements 0 Reactions 0 Comments 0 Shares
Disposing of household hazardo... Boost unavailable September 3, 2021 at 10:23 AM 156 People reached 2 Post Engagements 0 Reactions 0 Comments 0 Shares
Delinquency turnoff notifications resum... Boost post September 3, 2021 at 10:08 AM 377 People reached 5 Post Engagements 0 Reactions 0 Comments 2 Shares
We thank you for your service. Boost unavailable September 1, 2021 at 4:42 PM 77 People reached 4 Post Engagements 2 Reactions 0 Comments 0 Shares
Delinquency turnoff notifications resum... Boost post September 1, 2021 at 4:26 PM 125 People reached 1 Post Engagements 0 Reactions 0 Comments 1 Shares
Only posts published after March 2019 will appear here.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Shared to: all
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Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
This post has no text
Boost unavailable
September 1, 2021 at 4:22 PM
If you are approved for for the CA...
Boost unavailable
August 30, 2021 at 10:50 AM
155 People reached
1 Post Engagements
1 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
August 27, 2021 at 1:12 PM
175 People reached
1 Post Engagements
1 Reactions
0 Comments
0 Shares
Save the date! Hoover Reservoir fall litte...
Boost post
August 27, 2021 at 11:17 AM
271 People reached
1 Reactions
2 Comments
2 Shares
Delinquency turnoff notifications resum...
Boost post
August 27, 2021 at 9:31 AM
155 People reached
6 Post Engagements
3 Reactions
0 Comments
1 Shares
It's National Dog Day! Do you PUP (pick ...
Boost post
August 26, 2021 at 12:51 PM
702 People reached
54 Post Engagements
17 Reactions
4 Comments
5 Shares
This post has no text
Boost unavailable
August 25, 2021 at 12:22 PM
341 People reached
4 Post Engagements
2 Reactions
0 Comments
0 Shares
Are you a Columbus power customer be...
Boost post
August 25, 2021 at 11:28 AM
143 People reached
4 Post Engagements
0 Reactions
0 Comments
0 Shares
Ever wonder how to start a career in pub...
Boost post
August 24, 2021 at 3:02 PM
305 People reached
11 Post Engagements
3 Reactions
0 Comments
2 Shares
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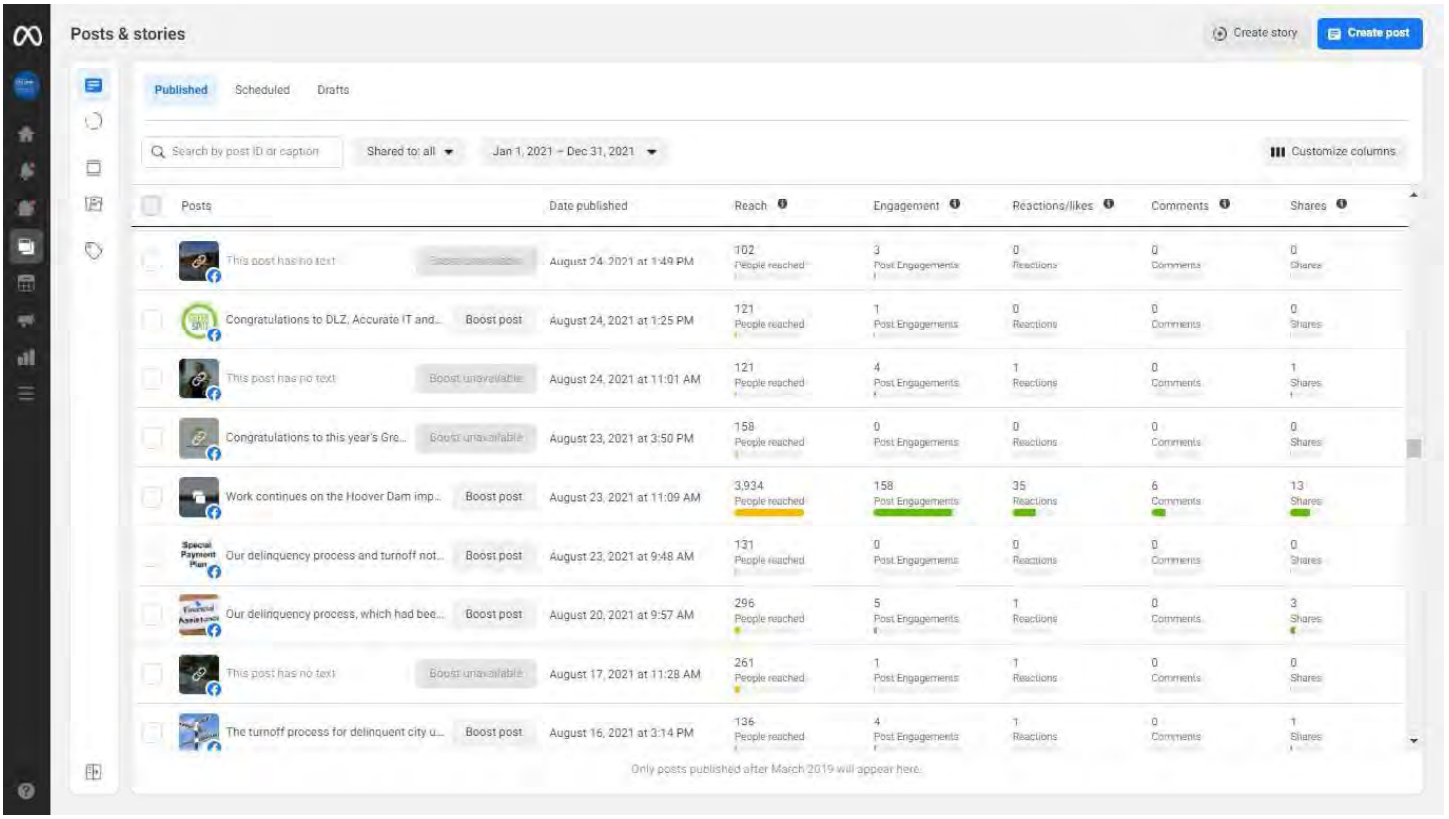
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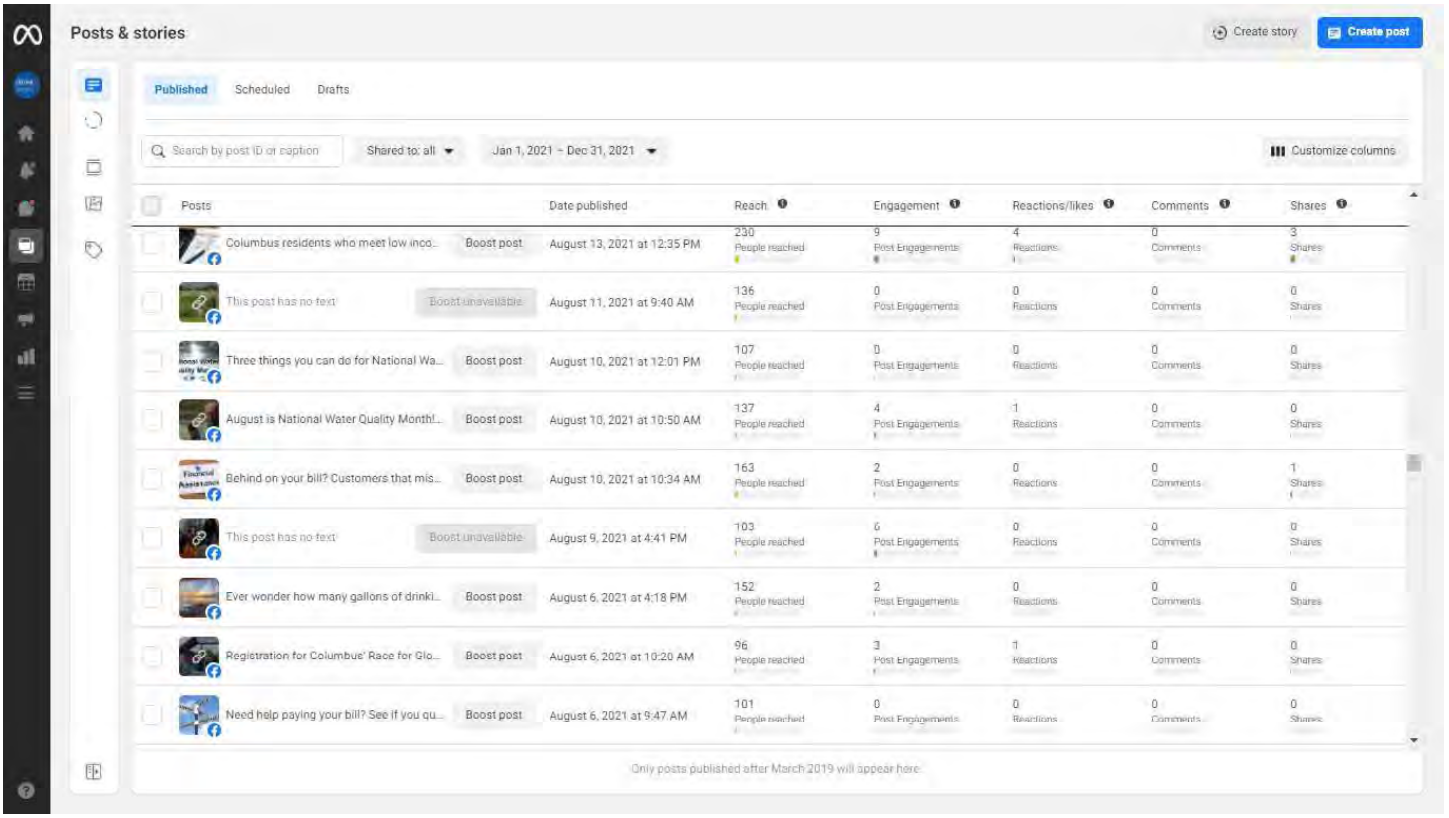
Shares
This post has no text
August 24, 2021 at 1:49 PM
102 People reached
3 Post Engagements
0 Reactions
0 Comments
0 Shares
Congratulations to DLZ, Accurate IT and...
Boost post
August 24, 2021 at 1:25 PM
121 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
August 24, 2021 at 11:01 AM
121 People reached
4 Post Engagements
1 Reactions
0 Comments
1 Shares
Congratulations to this year's Gre...
Boost unavailable
August 23, 2021 at 3:50 PM
158 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Work continues on the Hoover Dam imp...
Boost post
August 23, 2021 at 11:09 AM
3,934 People reached
158 Post Engagements
35 Reactions
6 Comments
13 Shares
Our delinquency process and turnoff not...
Boost post
August 23, 2021 at 9:48 AM
131 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Our delinquency process, which had bee...
Boost post
August 20, 2021 at 9:57 AM
296 People reached
5 Post Engagements
1 Reactions
0 Comments
3 Shares
This post has no text
Boost unavailable
August 17, 2021 at 11:28 AM
261 People reached
1 Post Engagements
1 Reactions
0 Comments
0 Shares
The turnoff process for delinquent city u...
Boost post
August 16, 2021 at 3:14 PM
136 People reached
4 Post Engagements
1 Reactions
0 Comments
1 Shares
Only posts published after March 2019 will appear here.


Posts & stories
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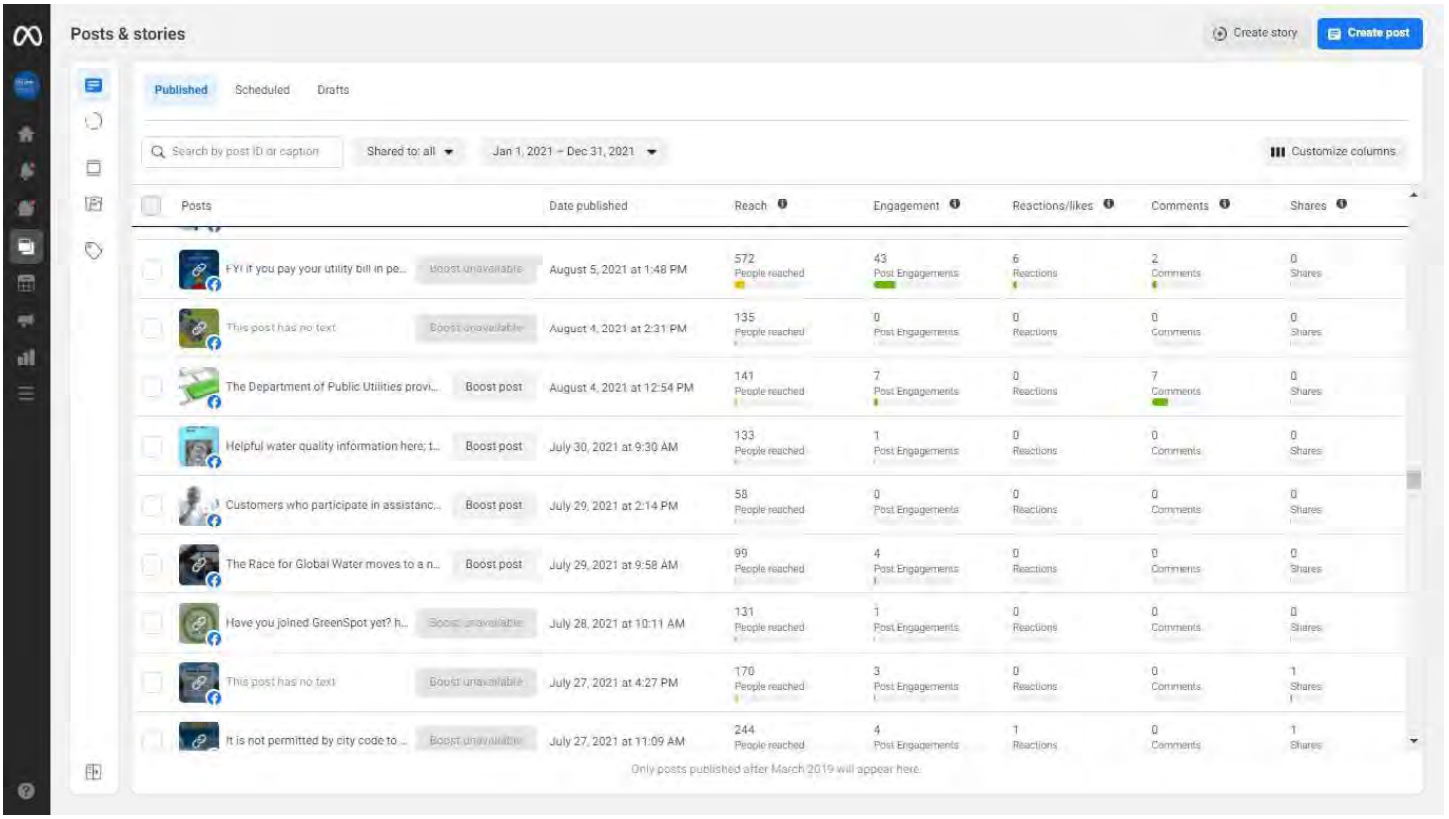
Columbus residents who meet low inco... Boost post August 13, 2021 at 12:35 PM 230 People reached 9 Post Engagements 4 Reactions 0 Comments 3 Shares
This post has no text Boost unavailable August 11, 2021 at 9:40 AM 136 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
Three things you can do for National Wa... Boost post August 10, 2021 at 12:01 PM 107 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
August is National Water Quality Month!... Boost post August 10, 2021 at 10:50 AM 137 People reached 4 Post Engagements 1 Reactions 0 Comments 0 Shares
Behind on your bill? Customers that mis... Boost post August 10, 2021 at 10:34 AM 163 People reached 2 Post Engagements 0 Reactions 0 Comments 1 Shares
This post has no text Boost unavailable August 9, 2021 at 4:41 PM 103 People reached 6 Post Engagements 0 Reactions 0 Comments 0 Shares
Ever wonder how many gallons of drinki... Boost post August 6, 2021 at 4:18 PM 152 People reached 2 Post Engagements 0 Reactions 0 Comments 0 Shares
Registration for Columbus' Race for Glo... Boost post August 6, 2021 at 10:20 AM 96 People reached 3 Post Engagements 1 Reactions 0 Comments 0 Shares
Need help paying your bill? See if you qu... Boost post August 6, 2021 at 9:47 AM 101 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
Only posts published after March 2019 will appear here.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Customize columns
Posts
Date published
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Reactions/likes
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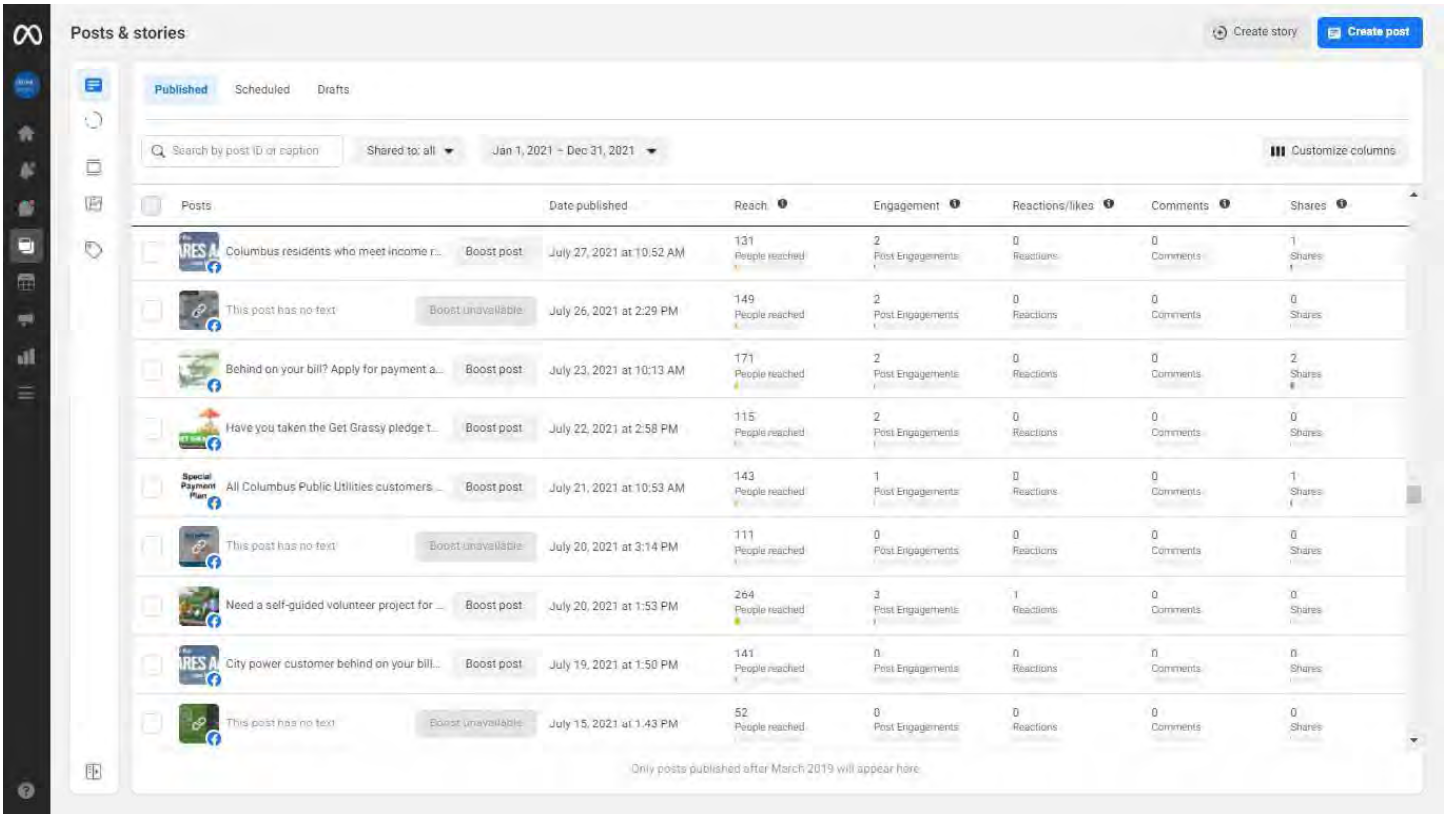
FYI if you pay your utility bill in pe... Boost unavailable August 5, 2021 at 1:48 PM 572 People reached 43 Post Engagements 6 Reactions 2 Comments 0 Shares
This post has no text Boost unavailable August 4, 2021 at 2:31 PM 135 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
The Department of Public Utilities provi... Boost post August 4, 2021 at 12:54 PM 141 People reached 7 Post Engagements 0 Reactions 7 Comments 0 Shares
Helpful water quality information here; t... Boost post July 30, 2021 at 9:30 AM 133 People reached 1 Post Engagements 0 Reactions 0 Comments 0 Shares
Customers who participate in assistanc... Boost post July 29, 2021 at 2:14 PM 58 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
The Race for Global Water moves to a n... Boost post July 29, 2021 at 9:58 AM 99 People reached 4 Post Engagements 0 Reactions 0 Comments 0 Shares
Have you joined GreenSpot yet? h... Boost unavailable July 28, 2021 at 10:11 AM 131 People reached 1 Post Engagements 0 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable July 27, 2021 at 4:27 PM 170 People reached 3 Post Engagements 0 Reactions 0 Comments 1 Shares
It is not permitted by city code to ... Boost unavailable July 27, 2021 at 11:09 AM 244 People reached 4 Post Engagements 1 Reactions 0 Comments 1 Shares
Only posts published after March 2019 will appear here.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Reach
Engagement
Reactions/likes
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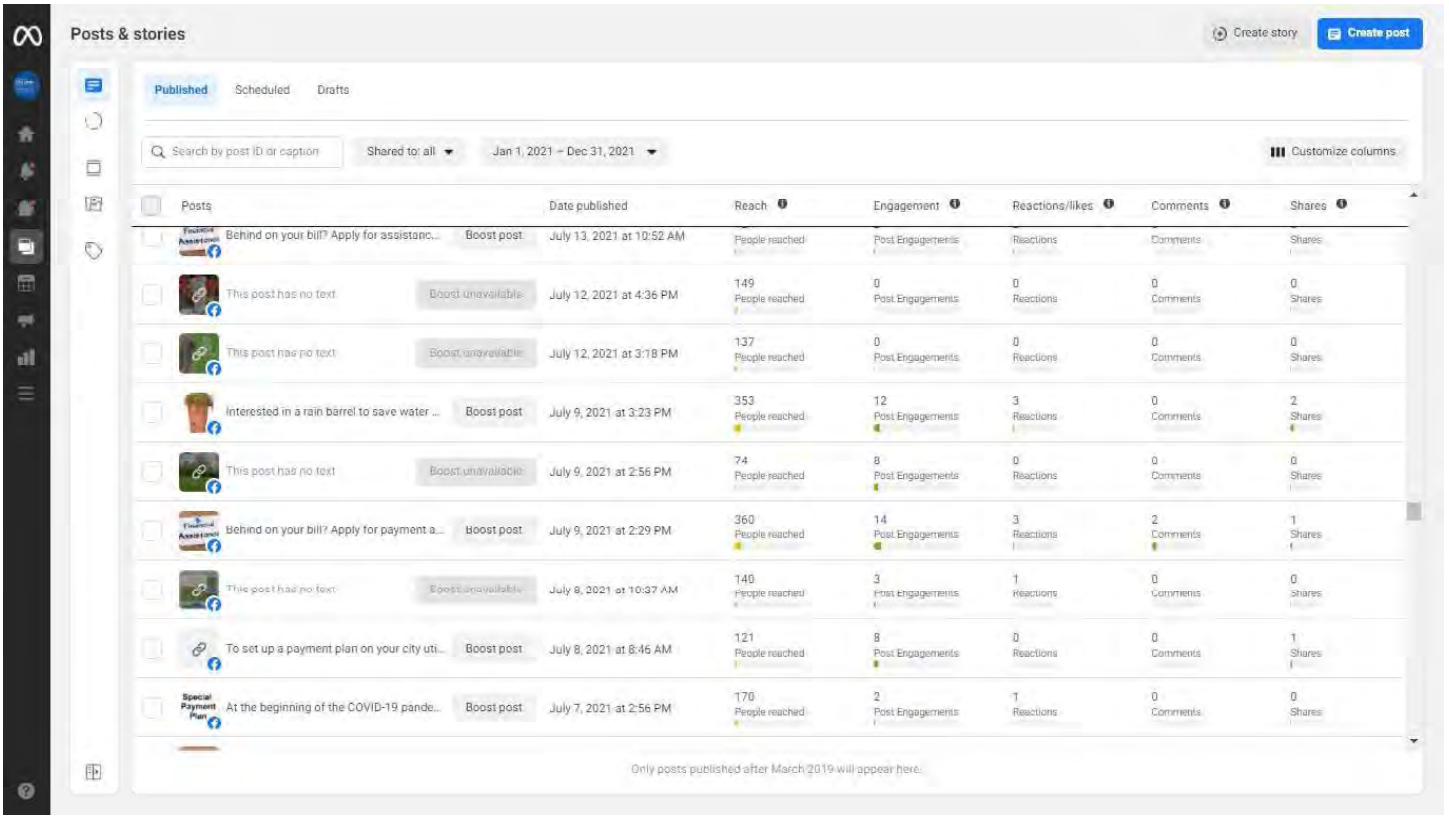
Columbus residents who meet income r... Boost post July 27, 2021 at 10:52 AM 131 People reached 2 Post Engagements 0 Reactions 0 Comments 1 Shares
This post has no text Boost unavailable July 26, 2021 at 2:29 PM 149 People reached 2 Post Engagements 0 Reactions 0 Comments 0 Shares
Behind on your bill? Apply for payment a... Boost post July 23, 2021 at 10:13 AM 171 People reached 2 Post Engagements 0 Reactions 0 Comments 2 Shares
Have you taken the Get Grassy pledge t... Boost post July 22, 2021 at 2:58 PM 115 People reached 2 Post Engagements 0 Reactions 0 Comments 0 Shares
All Columbus Public Utilities customers ... Boost post July 21, 2021 at 10:53 AM 143 People reached 1 Post Engagements 0 Reactions 0 Comments 1 Shares
This post has no text Boost unavailable July 20, 2021 at 3:14 PM 111 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
Need a self-guided volunteer project for ... Boost post July 20, 2021 at 1:53 PM 264 People reached 3 Post Engagements 1 Reactions 0 Comments 0 Shares
City power customer behind on your bill... Boost post July 19, 2021 at 1:50 PM 141 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable July 15, 2021 at 1:43 PM 52 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
Only posts published after March 2019 will appear here.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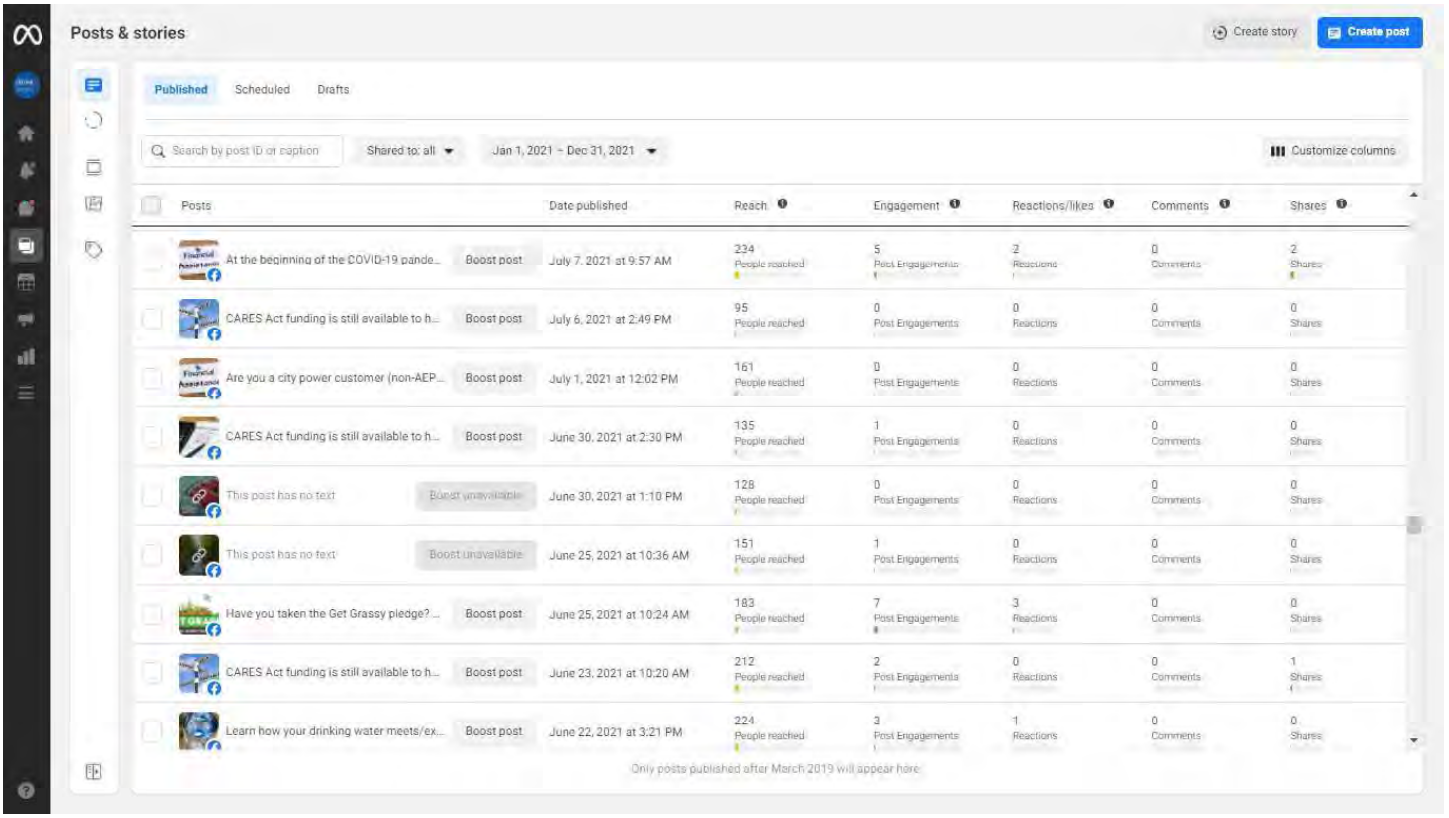
Behind on your bill? Apply for assistanc... Boost post July 13, 2021 at 10:52 AM
This post has no text Boost unavailable July 12, 2021 at 4:36 PM 149 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable July 12, 2021 at 3:18 PM 137 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
Interested in a rain barrel to save water ... Boost post July 9, 2021 at 3:23 PM 353 People reached 12 Post Engagements 3 Reactions 0 Comments 2 Shares
This post has no text Boost unavailable July 9, 2021 at 2:56 PM 74 People reached 8 Post Engagements 0 Reactions 0 Comments 0 Shares
Behind on your bill? Apply for payment a... Boost post July 9, 2021 at 2:29 PM 360 People reached 14 Post Engagements 3 Reactions 2 Comments 1 Shares
This post has no text Boost unavailable July 8, 2021 at 10:37 AM 140 People reached 3 Post Engagements 1 Reactions 0 Comments 0 Shares
To set up a payment plan on your city uti... Boost post July 8, 2021 at 8:46 AM 121 People reached 8 Post Engagements 0 Reactions 0 Comments 1 Shares
At the beginning of the COVID-19 pande... Boost post July 7, 2021 at 2:56 PM 170 People reached 2 Post Engagements 1 Reactions 0 Comments 0 Shares
Only posts published after March 2019 will appear here.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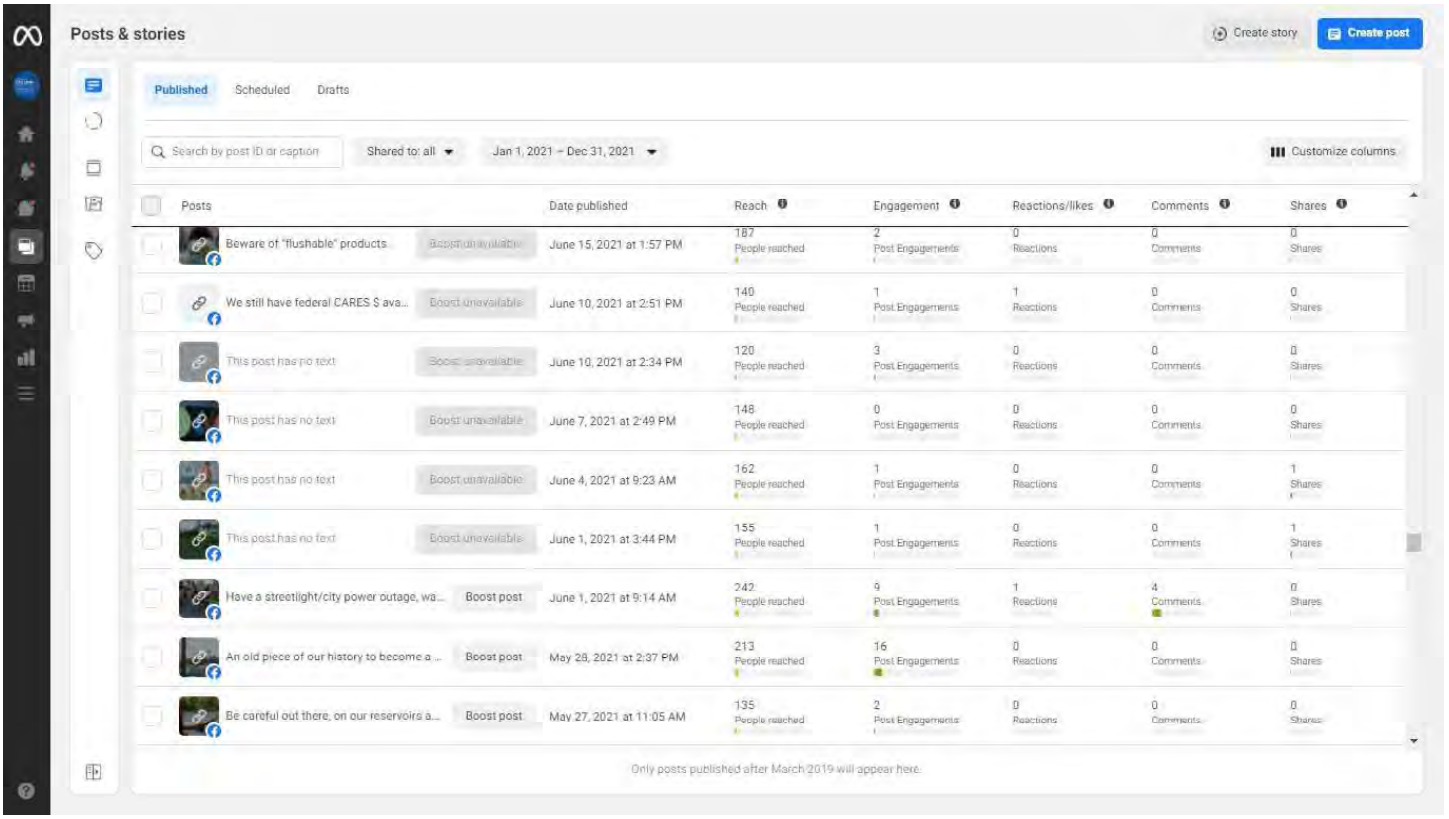
At the beginning of the COVID-19 pande... Boost post July 7, 2021 at 9:57 AM 234 People reached 5 Post Engagements 2 Reactions 0 Comments 2 Shares
CARES Act funding is still available to h... Boost post July 6, 2021 at 2:49 PM 95 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
Are you a city power customer (non-AEP... Boost post July 1, 2021 at 12:02 PM 161 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
CARES Act funding is still available to h... Boost post June 30, 2021 at 2:30 PM 135 People reached 1 Post Engagements 0 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable June 30, 2021 at 1:10 PM 128 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable June 25, 2021 at 10:36 AM 151 People reached 1 Post Engagements 0 Reactions 0 Comments 0 Shares
Have you taken the Get Grassy pledge? ... Boost post June 25, 2021 at 10:24 AM 183 People reached 7 Post Engagements 3 Reactions 0 Comments 0 Shares
CARES Act funding is still available to h... Boost post June 23, 2021 at 10:20 AM 212 People reached 2 Post Engagements 0 Reactions 0 Comments 1 Shares
Learn how your drinking water meets/ex... Boost post June 22, 2021 at 3:21 PM 224 People reached 3 Post Engagements 1 Reactions 0 Comments 0 Shares
Only posts published after March 2019 will appear here.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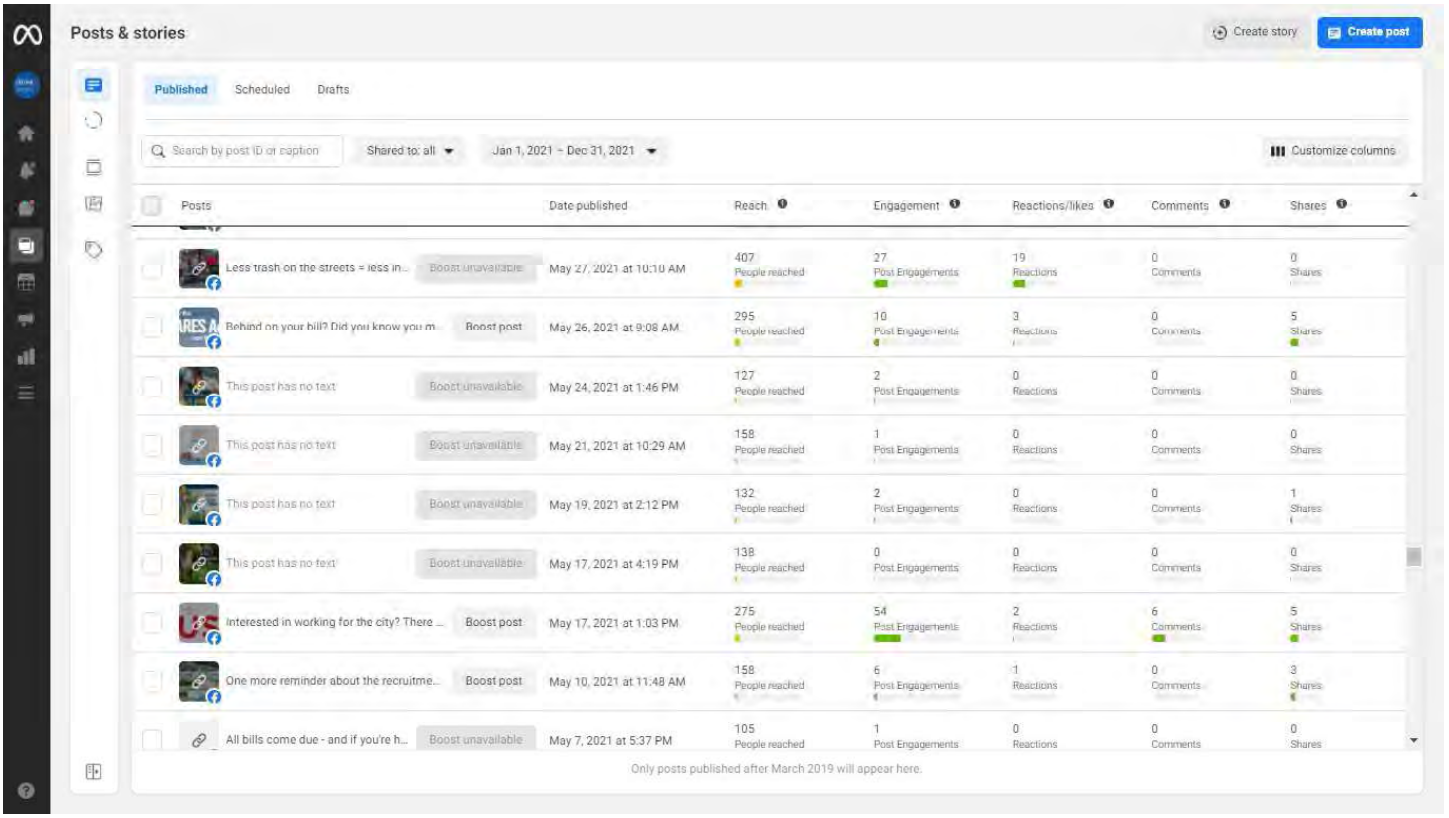
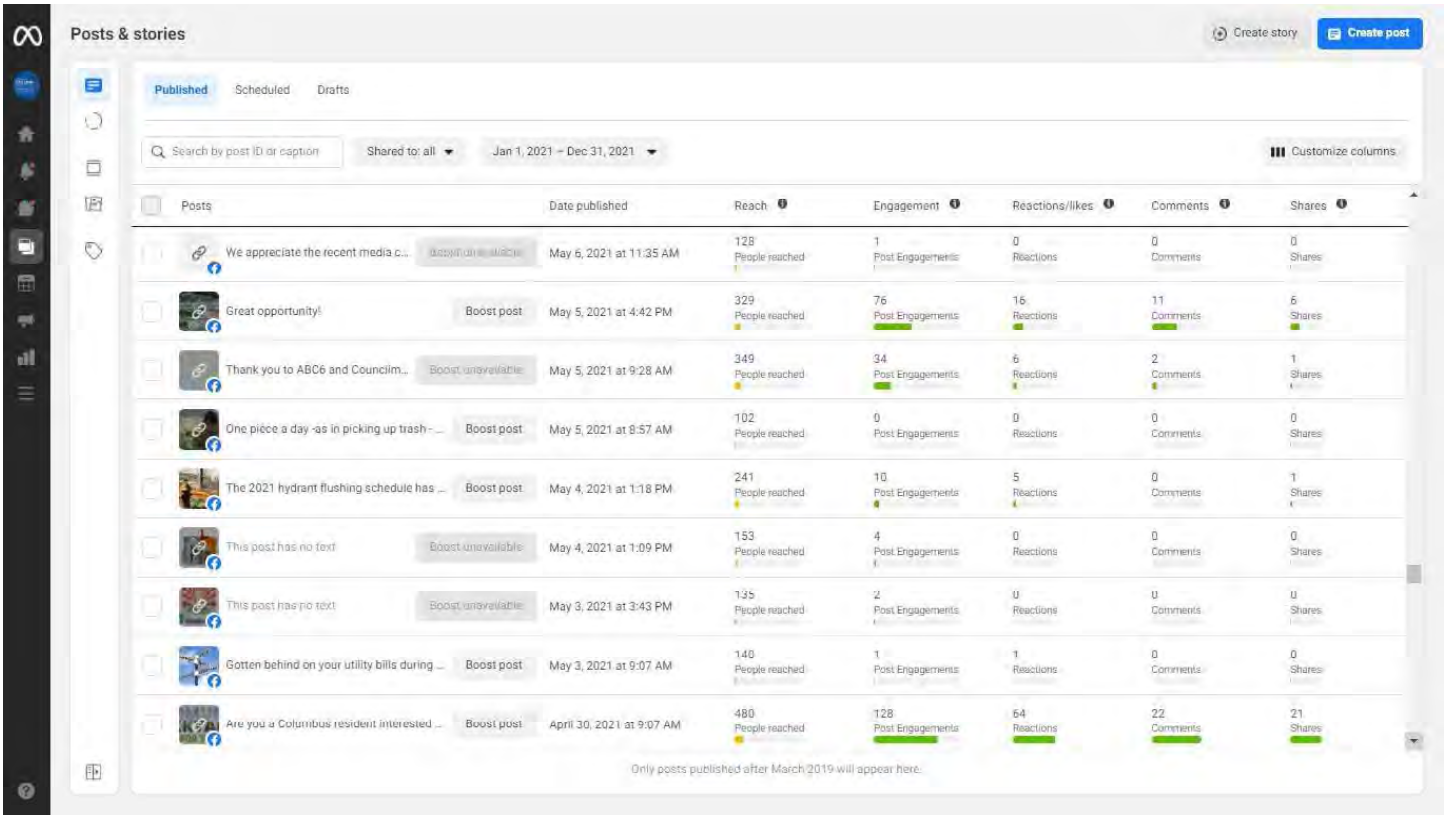
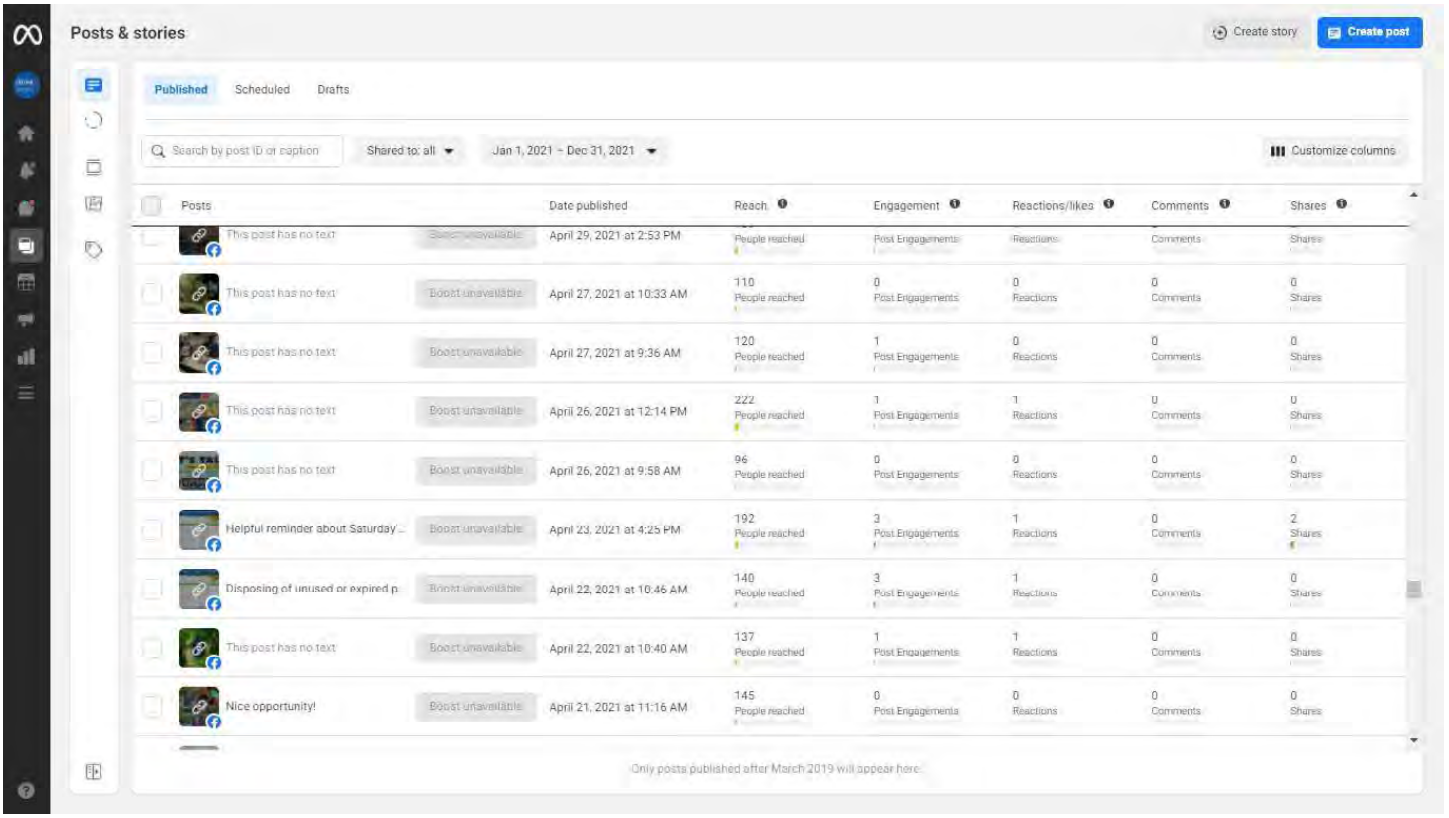
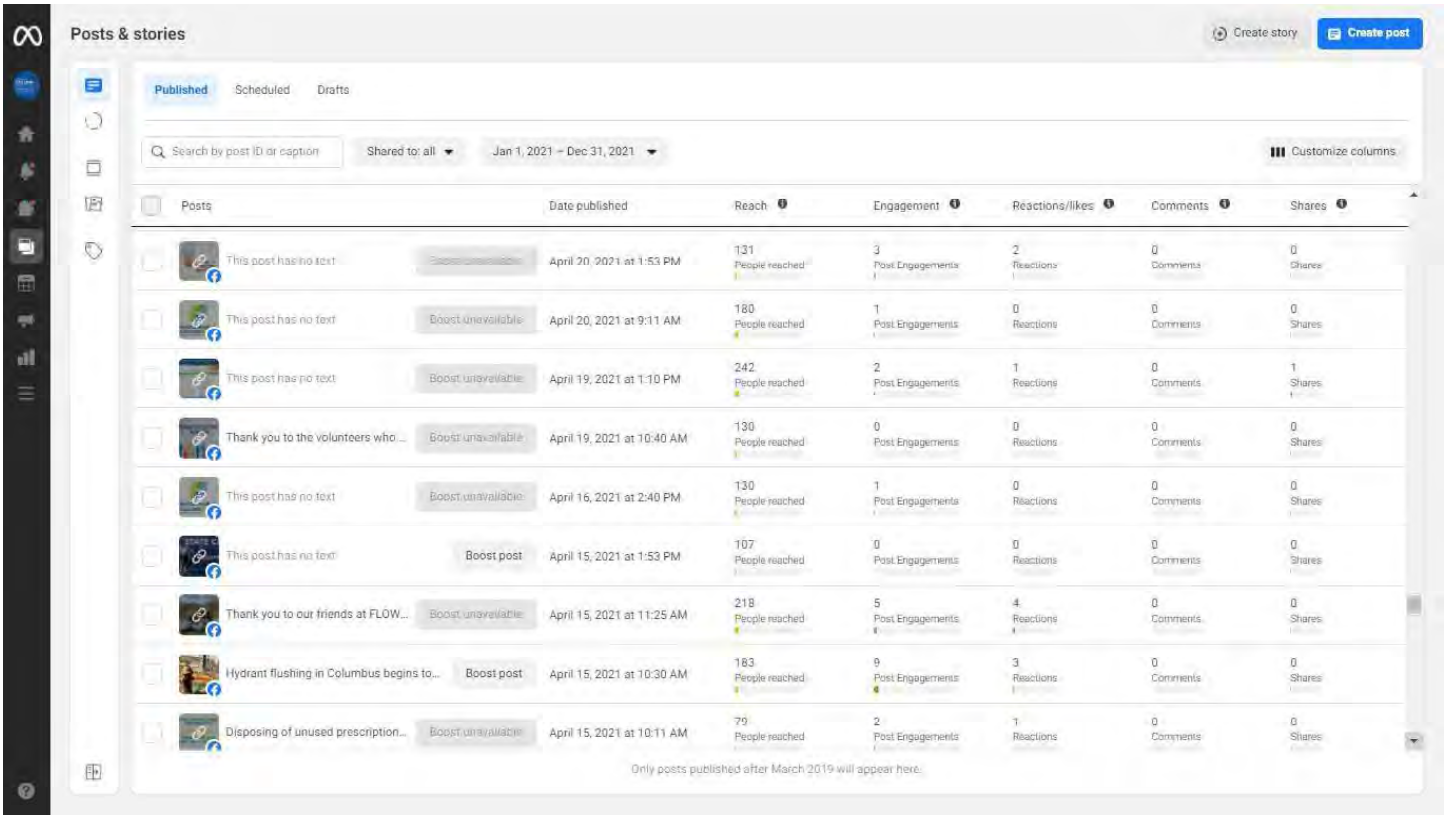
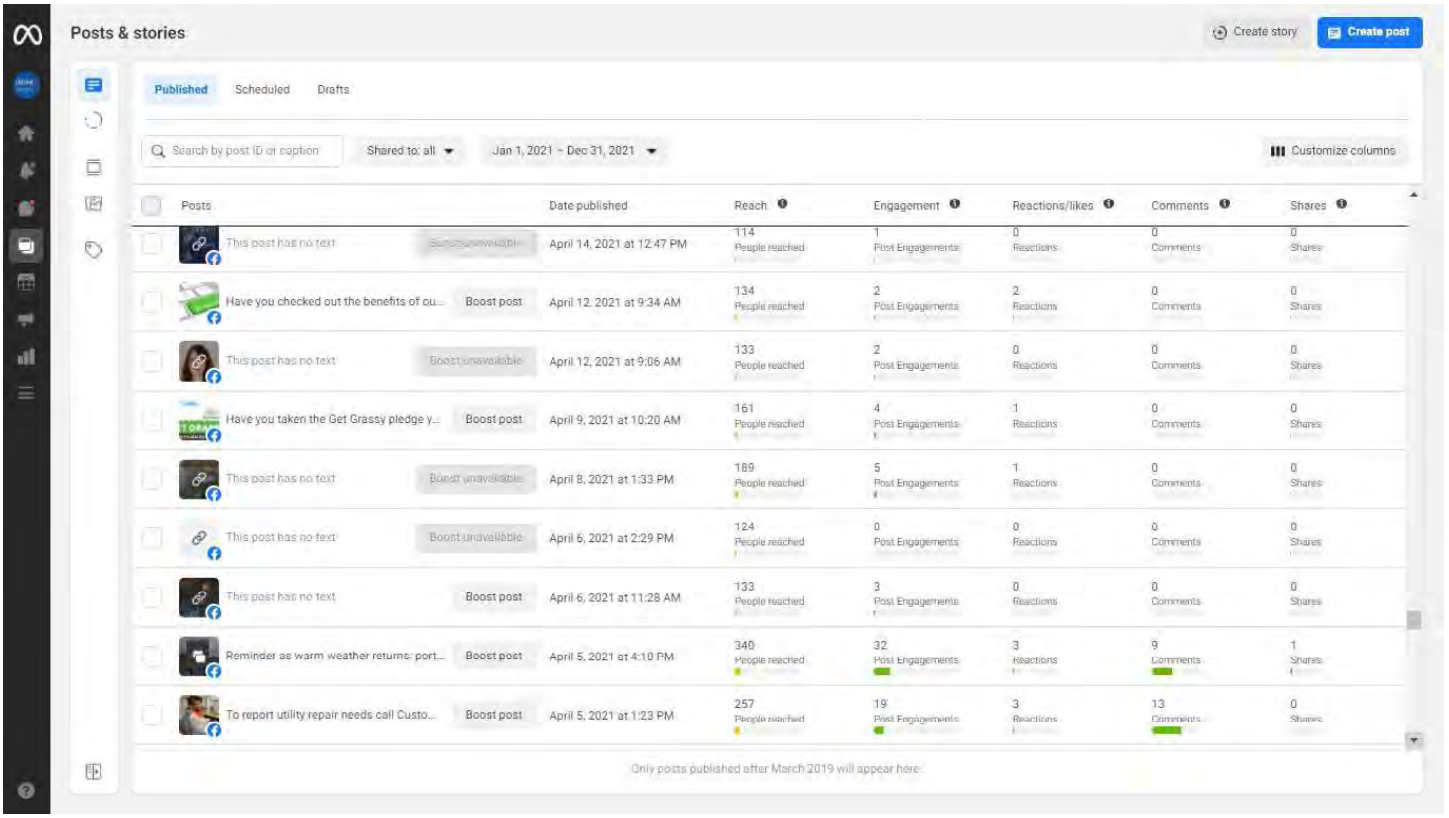
Beware of "flushable" products Boost unavailable June 15, 2021 at 1:57 PM 187 People reached 2 Post Engagements 0 Reactions 0 Comments 0 Shares
We still have federal CARES $ ava... Boost unavailable June 10, 2021 at 2:51 PM 140 People reached 1 Post Engagements 1 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable June 10, 2021 at 2:34 PM 120 People reached 3 Post Engagements 0 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable June 7, 2021 at 2:49 PM 148 People reached 0 Post Engagements 0 Reactions 0 Comments 0 Shares
This post has no text Boost unavailable June 4, 2021 at 9:23 AM 162 People reached 1 Post Engagements 0 Reactions 0 Comments 1 Shares
This post has no text Boost unavailable June 1, 2021 at 3:44 PM 155 People reached 1 Post Engagements 0 Reactions 0 Comments 1 Shares
Have a streetlight/city power outage, wa... Boost post June 1, 2021 at 9:14 AM 242 People reached 9 Post Engagements 1 Reactions 4 Comments 0 Shares
An old piece of our history to become a ... Boost post May 28, 2021 at 2:37 PM 213 People reached 16 Post Engagements 0 Reactions 0 Comments 0 Shares
Be careful out there, on our reservoirs a... Boost post May 27, 2021 at 11:05 AM 135 People reached 2 Post Engagements 0 Reactions 0 Comments 0 Shares
Only posts published after March 2019 will appear here.

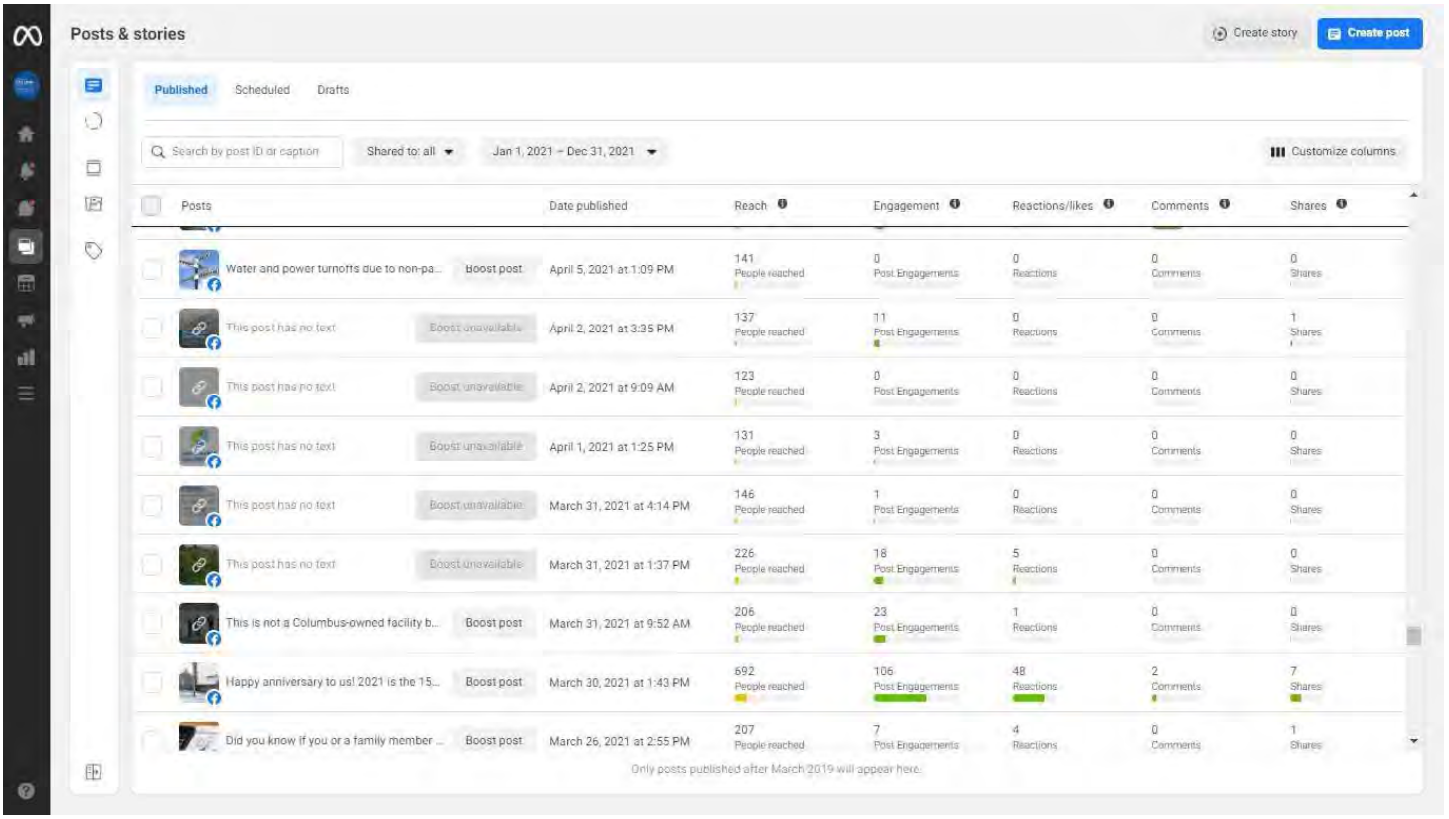

Posts & stories
Create story
Create post
Published
Scheduled
Drafts
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
Less trash on the streets = less in...
Boost unavailable
May 27, 2021 at 10:10 AM
407 People reached
27 Post Engagements
19 Reactions
0 Comments
0 Shares
Behind on your bill? Did you know you m...
Boost post
May 26, 2021 at 9:08 AM
295 People reached
10 Post Engagements
3 Reactions
0 Comments
5 Shares
This post has no text
Boost unavailable
May 24, 2021 at 1:46 PM
127 People reached
2 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
May 21, 2021 at 10:29 AM
158 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
May 19, 2021 at 2:12 PM
132 People reached
2 Post Engagements
0 Reactions
0 Comments
1 Shares
This post has no text
Boost unavailable
May 17, 2021 at 4:19 PM
138 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Interested in working for the city? There ...
Boost post
May 17, 2021 at 1:03 PM
275 People reached
54 Post Engagements
2 Reactions
6 Comments
5 Shares
One more reminder about the recruitme...
Boost post
May 10, 2021 at 11:48 AM
158 People reached
6 Post Engagements
1 Reactions
0 Comments
3 Shares
All bills come due - and if you're h...
Boost unavailable
May 7, 2021 at 5:37 PM
105 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
Only posts published after March 2019 will appear here.

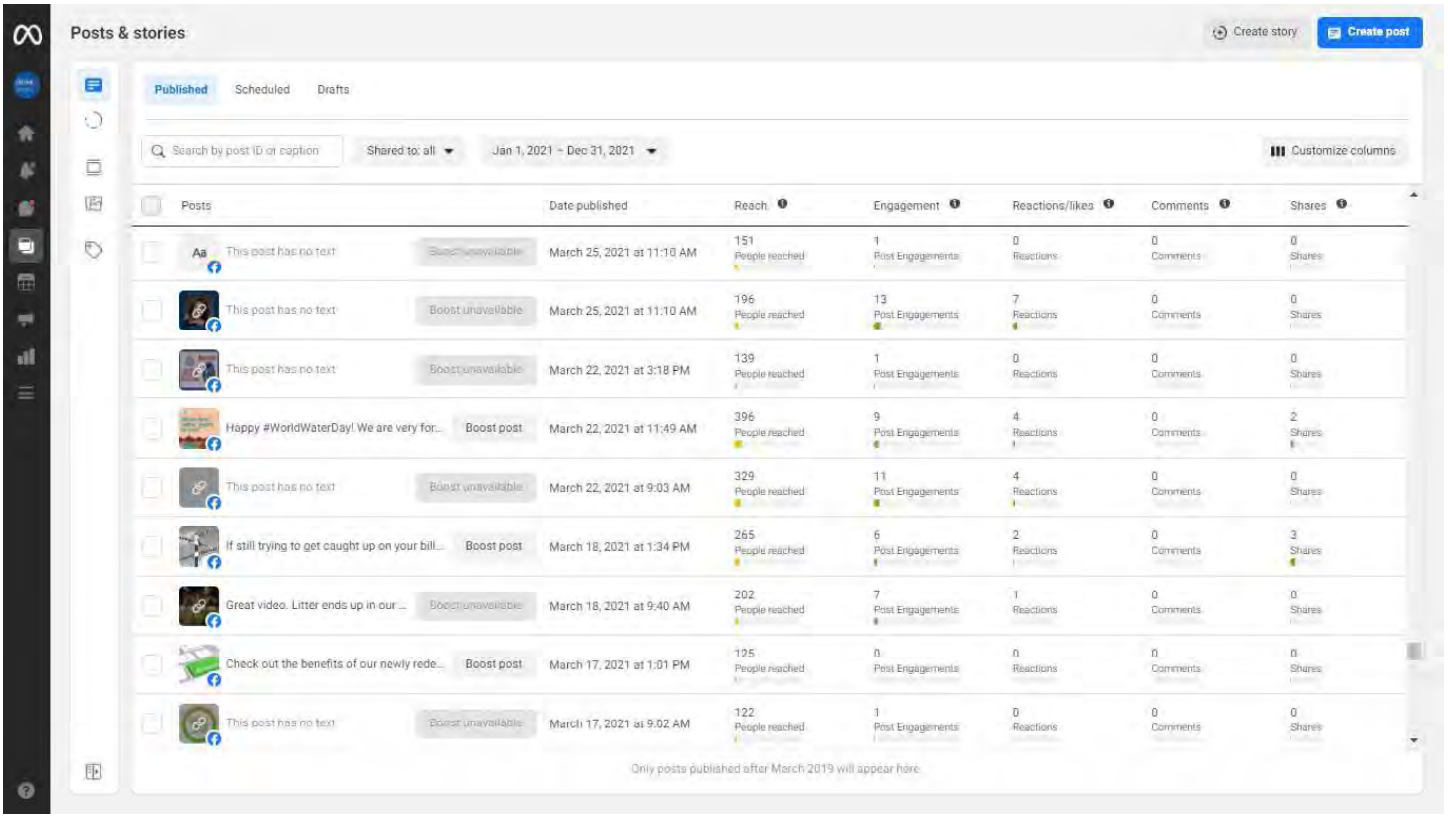

Posts & stories
Create story
Create post
Published
Scheduled
Drafts
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
We appreciate the recent media c...
May 6, 2021 at 11:35 AM
128 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
Great opportunity!
Boost post
May 5, 2021 at 4:42 PM
329 People reached
76 Post Engagements
16 Reactions
11 Comments
6 Shares
Thank you to ABC6 and Councilm...
Boost unavailable
May 5, 2021 at 9:28 AM
349 People reached
34 Post Engagements
6 Reactions
2 Comments
1 Shares
One piece a day -as in picking up trash -...
Boost post
May 5, 2021 at 8:57 AM
102 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
The 2021 hydrant flushing schedule has ...
Boost post
May 4, 2021 at 1:18 PM
241 People reached
10 Post Engagements
5 Reactions
0 Comments
1 Shares
This post has no text
Boost unavailable
May 4, 2021 at 1:09 PM
153 People reached
4 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
May 3, 2021 at 3:43 PM
135 People reached
2 Post Engagements
0 Reactions
0 Comments
0 Shares
Gotten behind on your utility bills during ...
Boost post
May 3, 2021 at 9:07 AM
140 People reached
1 Post Engagements
1 Reactions
0 Comments
0 Shares
Are you a Columbus resident interested ...
Boost post
April 30, 2021 at 9:07 AM
480 People reached
128 Post Engagements
64 Reactions
22 Comments
21 Shares
Only posts published after March 2019 will appear here.

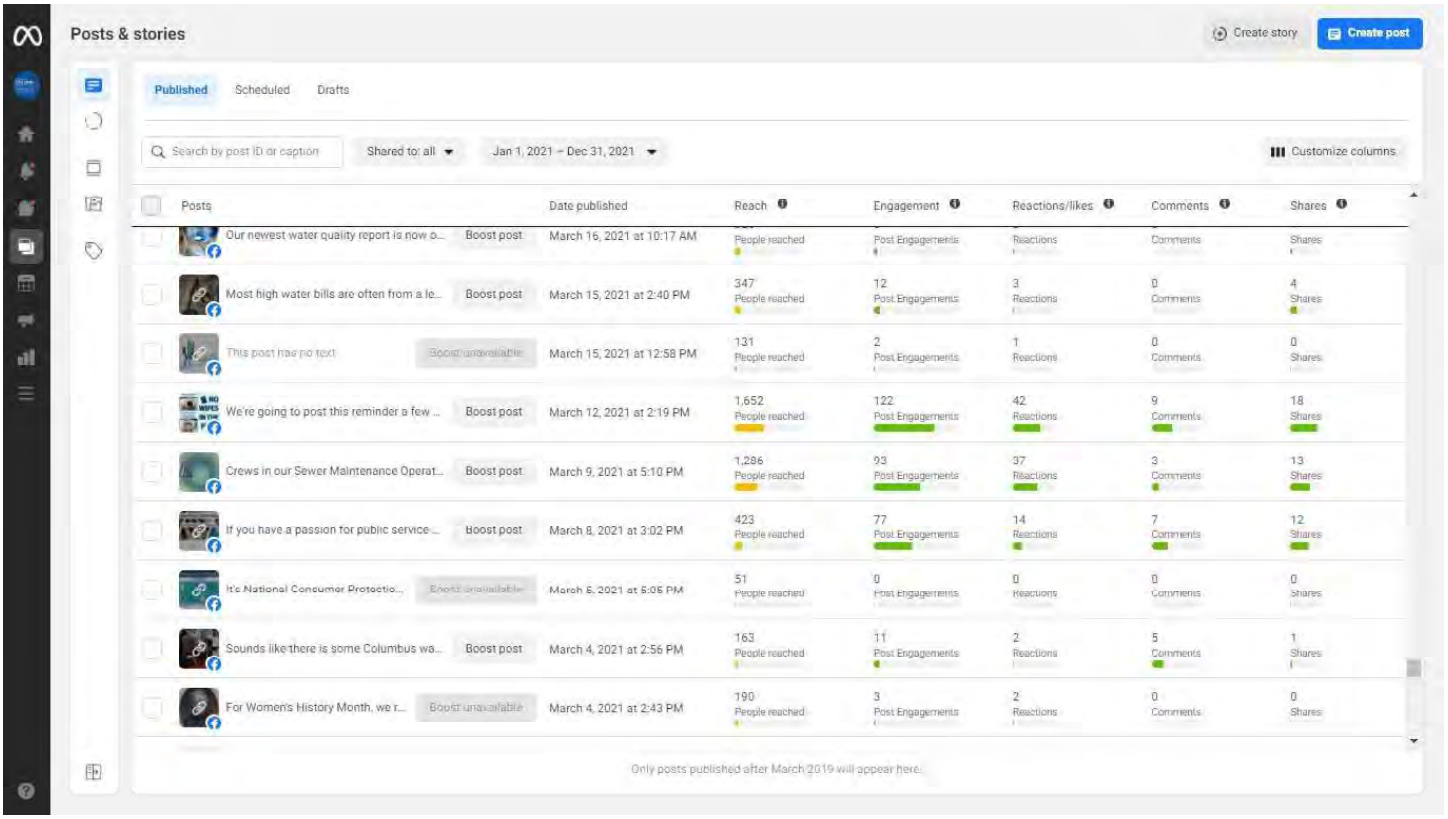

Posts & stories
Create story
Create post
Published
Scheduled
Drafts
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
This post has no text
Boost unavailable
April 29, 2021 at 2:53 PM
April 27, 2021 at 10:33 AM
110 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
April 27, 2021 at 9:36 AM
120 People reached
1 Post Engagements
April 26, 2021 at 12:14 PM
222 People reached
1 Post Engagements
1 Reactions
April 26, 2021 at 9:58 AM
96 People reached
Helpful reminder about Saturday ...
April 23, 2021 at 4:25 PM
192 People reached
3 Post Engagements
2 Shares
Disposing of unused or expired p
April 22, 2021 at 10:46 AM
140 People reached
April 22, 2021 at 10:40 AM
137 People reached
Nice opportunity!
April 21, 2021 at 11:16 AM
145 People reached
Only posts published after March 2019 will appear here.

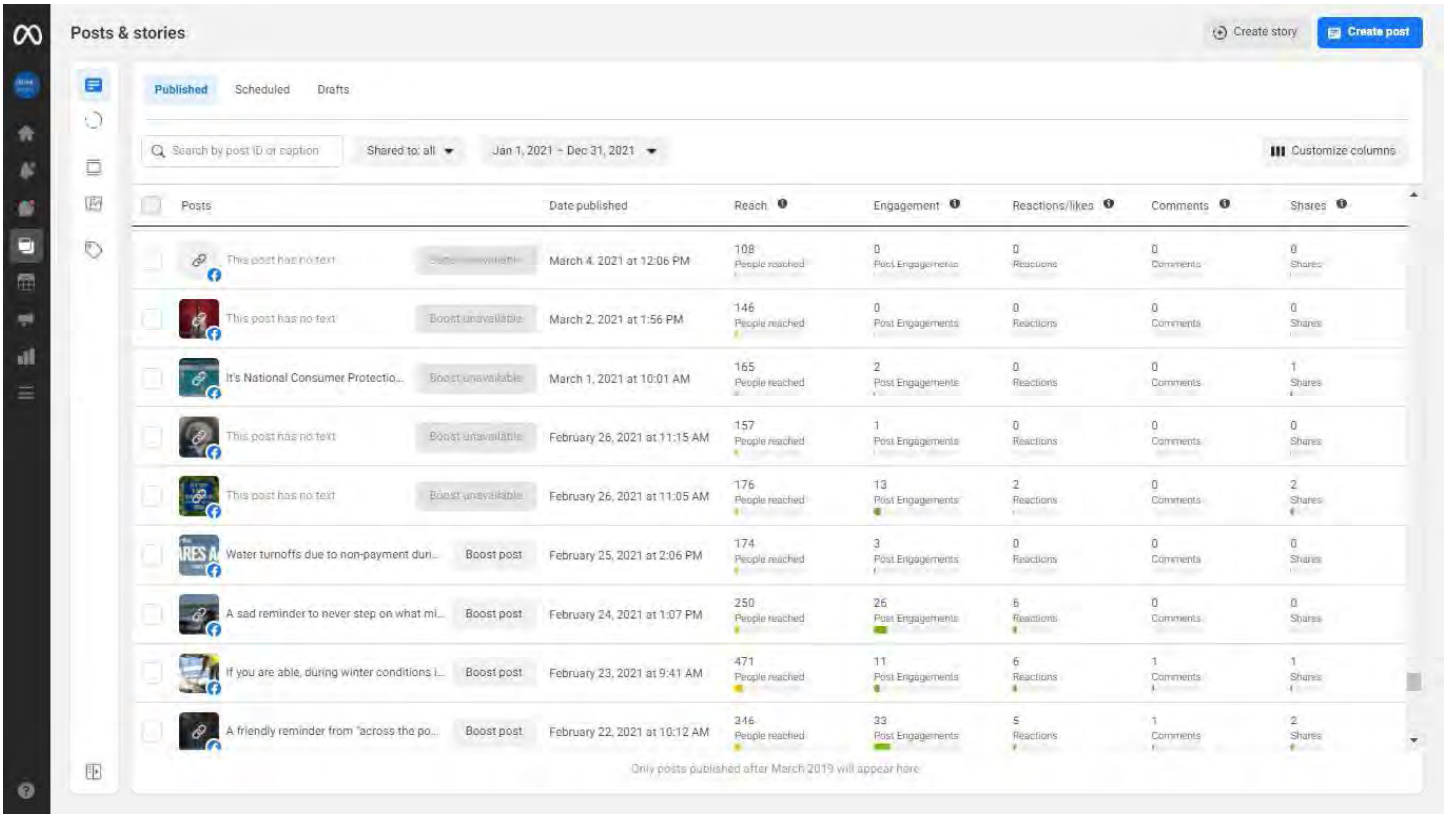

Posts & stories
Create story
Create post
Published
Scheduled
Drafts
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
This post has no text
Boost unavailable
April 20, 2021 at 1:53 PM
131 People reached
3 Post Engagements
2 Reactions
April 20, 2021 at 9:11 AM
180 People reached
1 Post Engagements
April 19, 2021 at 1:10 PM
242 People reached
2 Post Engagements
1 Shares
Thank you to the volunteers who ...
April 19, 2021 at 10:40 AM
130 People reached
April 16, 2021 at 2:40 PM
130 People reached
1 Post Engagements
This post has no text
Boost post
April 15, 2021 at 1:53 PM
107 People reached
Thank you to our friends at FLOW...
April 15, 2021 at 11:25 AM
218 People reached
5 Post Engagements
4 Reactions
Hydrant flushing in Columbus begins to...
April 15, 2021 at 10:30 AM
183 People reached
9 Post Engagements
3 Reactions
Disposing of unused prescription...
April 15, 2021 at 10:11 AM
79 People reached
2 Post Engagements
Only posts published after March 2019 will appear here.

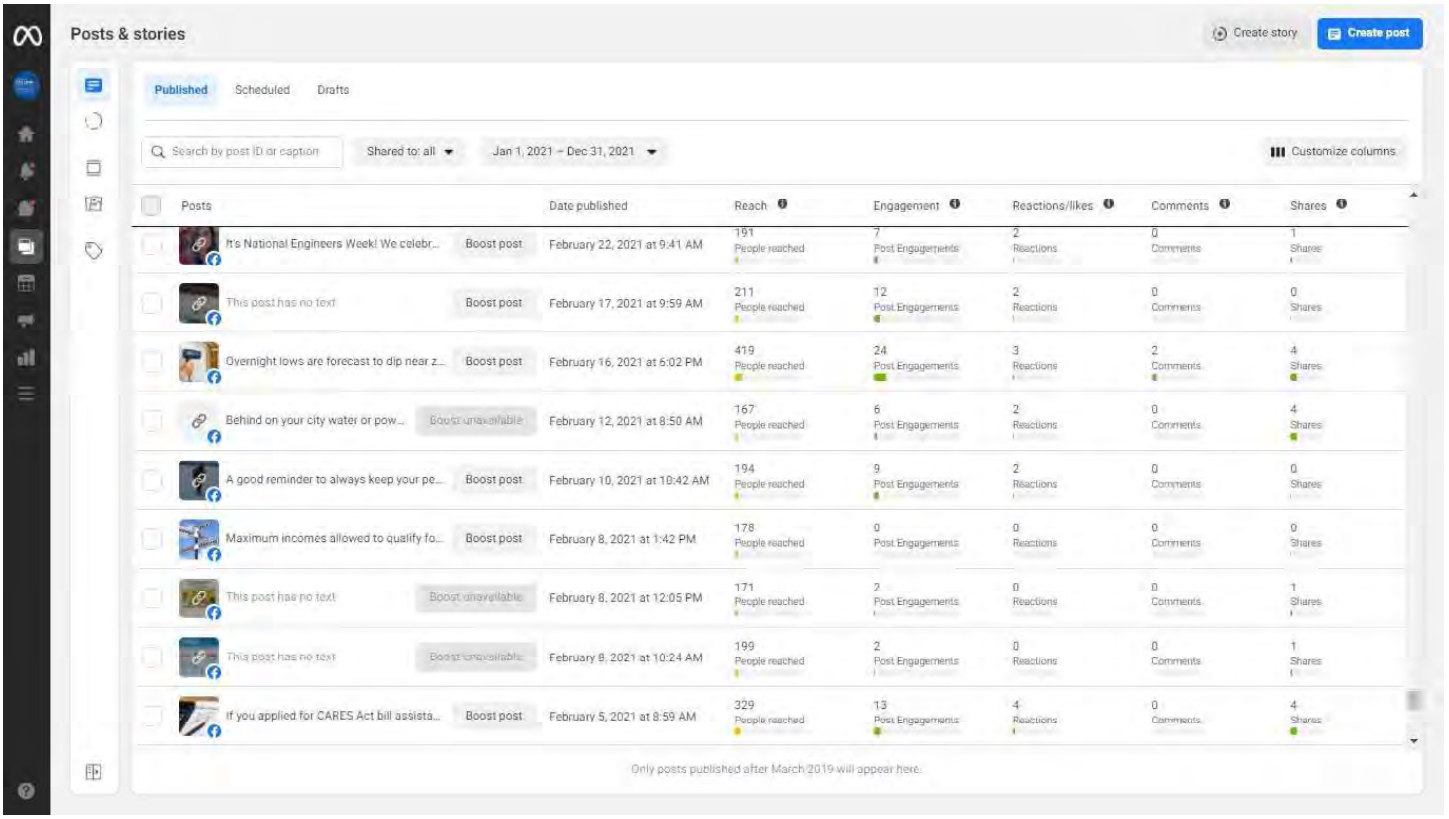

Posts & stories
Create story
Create post
Published
Scheduled
Drafts
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
This post has no text
Boost unavailable
April 14, 2021 at 12:47 PM
114 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
Have you checked out the benefits of ou...
Boost post
April 12, 2021 at 9:34 AM
134 People reached
2 Post Engagements
2 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
April 12, 2021 at 9:06 AM
133 People reached
2 Post Engagements
0 Reactions
0 Comments
0 Shares
Have you taken the Get Grassy pledge y...
Boost post
April 9, 2021 at 10:20 AM
161 People reached
4 Post Engagements
1 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
April 8, 2021 at 1:33 PM
189 People reached
5 Post Engagements
1 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
April 6, 2021 at 2:29 PM
124 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost post
April 6, 2021 at 11:28 AM
133 People reached
3 Post Engagements
0 Reactions
0 Comments
0 Shares
Reminder as warm weather returns: port...
Boost post
April 5, 2021 at 4:10 PM
340 People reached
32 Post Engagements
3 Reactions
9 Comments
1 Shares
To report utility repair needs call Custo...
Boost post
April 5, 2021 at 1:23 PM
257 People reached
19 Post Engagements
3 Reactions
13 Comments
0 Shares
Only posts published after March 2019 will appear here.

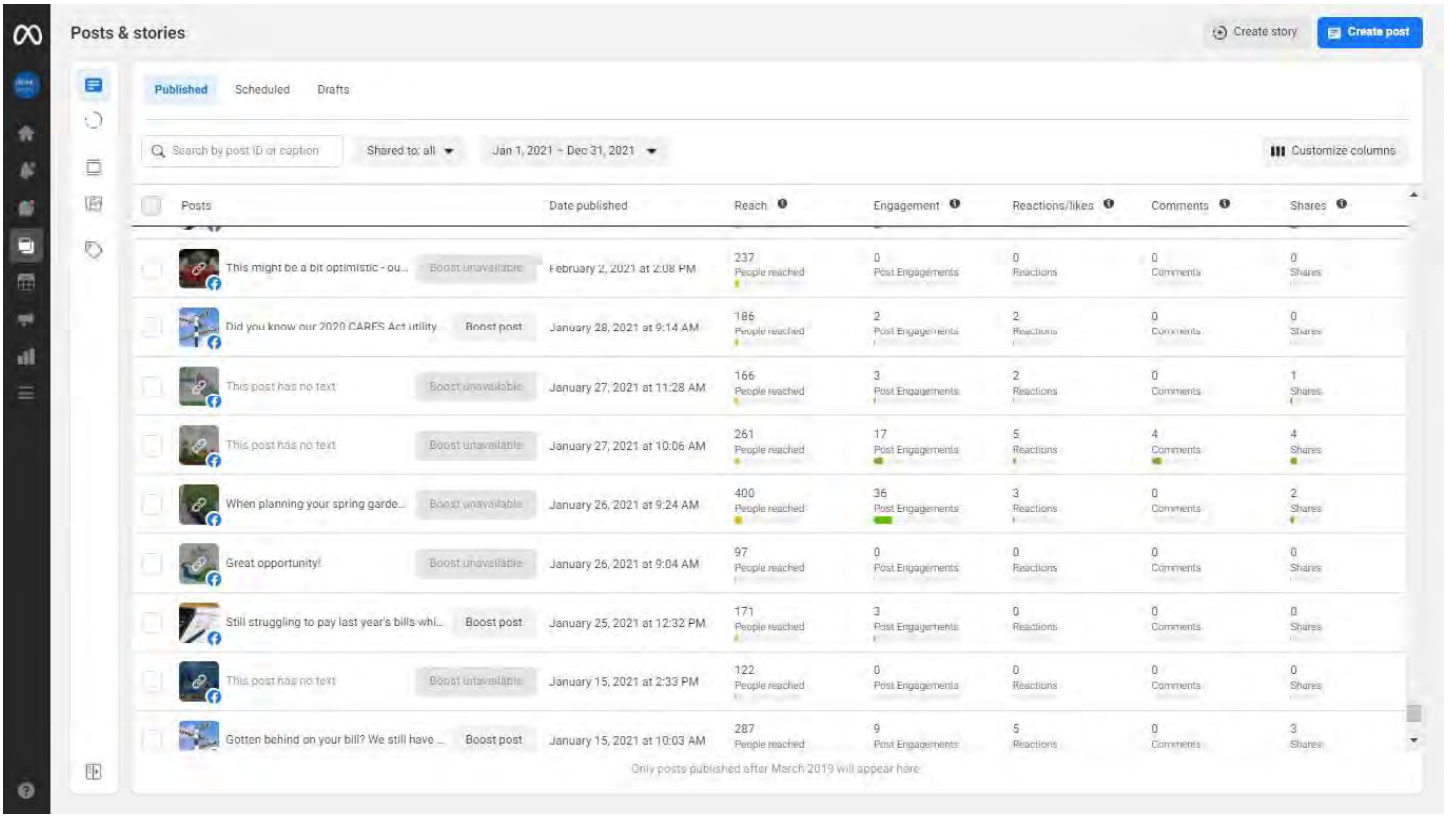

Posts & stories
Create story
Create post
Published
Scheduled
Drafts
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
Water and power turnoffs due to non-pa...
Boost post
April 5, 2021 at 1:09 PM
141 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
April 2, 2021 at 3:35 PM
137 People reached
11 Post Engagements
0 Reactions
0 Comments
1 Shares
This post has no text
Boost unavailable
April 2, 2021 at 9:09 AM
123 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
April 1, 2021 at 1:25 PM
131 People reached
3 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
March 31, 2021 at 4:14 PM
146 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
March 31, 2021 at 1:37 PM
226 People reached
18 Post Engagements
5 Reactions
0 Comments
0 Shares
This is not a Columbus-owned facility b...
Boost post
March 31, 2021 at 9:52 AM
206 People reached
23 Post Engagements
1 Reactions
0 Comments
0 Shares
Happy anniversary to us! 2021 is the 15...
Boost post
March 30, 2021 at 1:43 PM
692 People reached
106 Post Engagements
48 Reactions
2 Comments
7 Shares
Did you know if you or a family member ...
Boost post
March 26, 2021 at 2:55 PM
207 People reached
7 Post Engagements
4 Reactions
0 Comments
1 Shares
Only posts published after March 2019 will appear here.

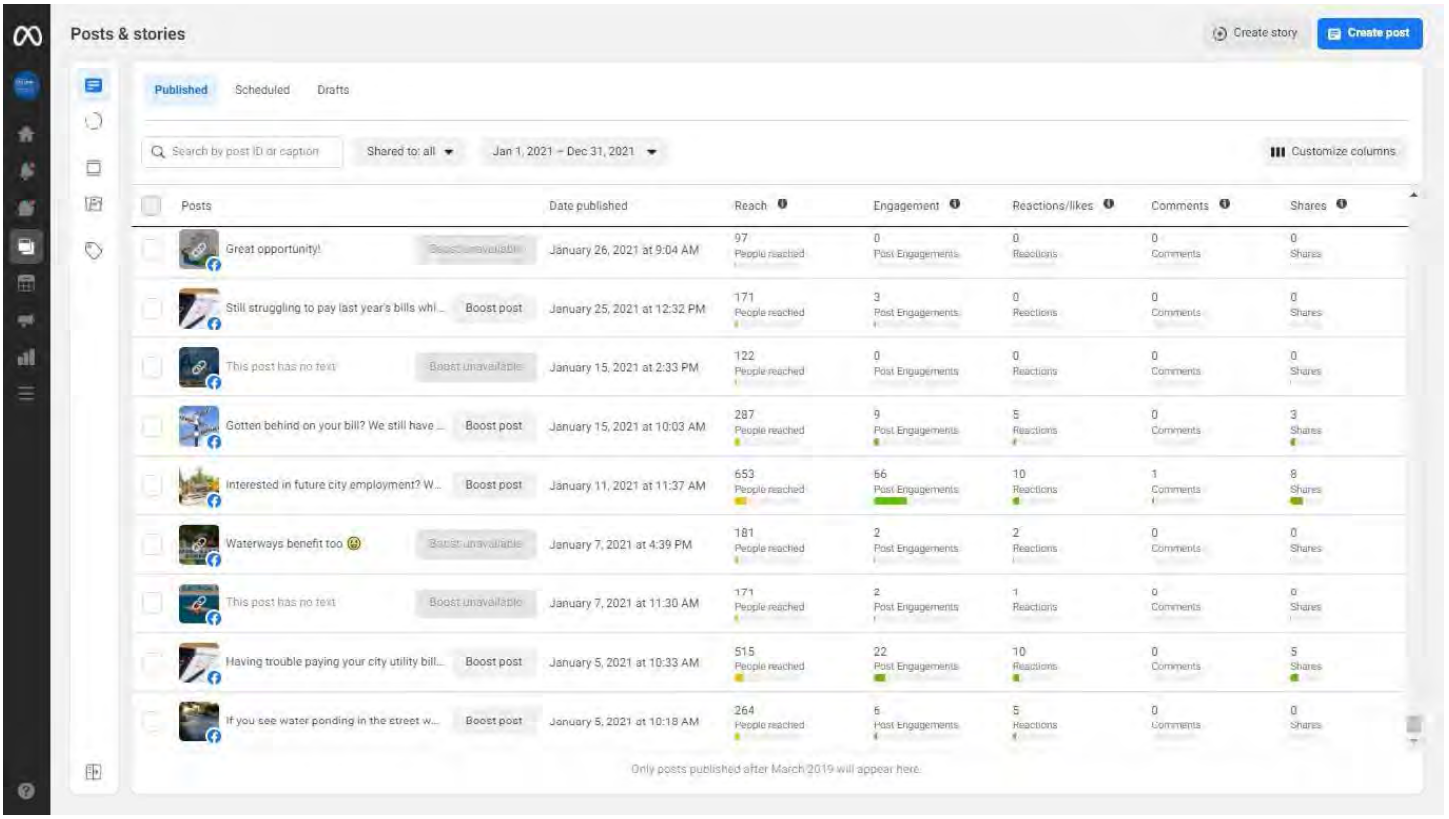

Posts & stories
Create story
Create post
Published
Scheduled
Drafts
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
This post has no text
Boost unavailable
March 25, 2021 at 11:10 AM
151 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
March 25, 2021 at 11:10 AM
196 People reached
13 Post Engagements
7 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
March 22, 2021 at 3:18 PM
139 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
Happy #WorldWaterDay! We are very for...
Boost post
March 22, 2021 at 11:49 AM
396 People reached
9 Post Engagements
4 Reactions
0 Comments
2 Shares
This post has no text
Boost unavailable
March 22, 2021 at 9:03 AM
329 People reached
11 Post Engagements
4 Reactions
0 Comments
0 Shares
If still trying to get caught up on your bill...
Boost post
March 18, 2021 at 1:34 PM
265 People reached
6 Post Engagements
2 Reactions
0 Comments
3 Shares
Great video. Litter ends up in our ...
Boost unavailable
March 18, 2021 at 9:40 AM
202 People reached
7 Post Engagements
1 Reactions
0 Comments
0 Shares
Check out the benefits of our newly rede...
Boost post
March 17, 2021 at 1:01 PM
125 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
March 17, 2021 at 9:02 AM
122 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
Only posts published after March 2019 will appear here.


Posts & stories
Create story
Create post
Published
Scheduled
Drafts
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
Our newest water quality report is now o...
Boost post
March 16, 2021 at 10:17 AM
Most high water bills are often from a le...
Boost post
March 15, 2021 at 2:40 PM
347 People reached
12 Post Engagements
3 Reactions
0 Comments
4 Shares
This post has no text
Boost unavailable
March 15, 2021 at 12:58 PM
131 People reached
2 Post Engagements
1 Reactions
0 Comments
0 Shares
We're going to post this reminder a few ...
Boost post
March 12, 2021 at 2:19 PM
1,652 People reached
122 Post Engagements
42 Reactions
9 Comments
18 Shares
Crews in our Sewer Maintenance Operat...
Boost post
March 9, 2021 at 5:10 PM
1,286 People reached
93 Post Engagements
37 Reactions
3 Comments
13 Shares
If you have a passion for public service ...
Boost post
March 8, 2021 at 3:02 PM
423 People reached
77 Post Engagements
14 Reactions
7 Comments
12 Shares
It's National Consumer Protectio...
Boost unavailable
March 5, 2021 at 5:05 PM
51 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Sounds like there is some Columbus wa...
Boost post
March 4, 2021 at 2:56 PM
163 People reached
11 Post Engagements
2 Reactions
5 Comments
1 Shares
For Women's History Month, we r...
Boost unavailable
March 4, 2021 at 2:43 PM
190 People reached
3 Post Engagements
2 Reactions
0 Comments
0 Shares
Only posts published after March 2019 will appear here.


Posts & stories
Create story
Create post
Published
Scheduled
Drafts
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
This post has no text
Boost unavailable
March 4, 2021 at 12:06 PM
108 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
March 2, 2021 at 1:56 PM
146 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
It's National Consumer Protectio...
Boost unavailable
March 1, 2021 at 10:01 AM
165 People reached
2 Post Engagements
0 Reactions
0 Comments
1 Shares
This post has no text
Boost unavailable
February 26, 2021 at 11:15 AM
157 People reached
1 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
February 26, 2021 at 11:05 AM
176 People reached
13 Post Engagements
2 Reactions
0 Comments
2 Shares
Water turnoffs due to non-payment duri...
Boost post
February 25, 2021 at 2:06 PM
174 People reached
3 Post Engagements
0 Reactions
0 Comments
0 Shares
A sad reminder to never step on what mi...
Boost post
February 24, 2021 at 1:07 PM
250 People reached
26 Post Engagements
6 Reactions
0 Comments
0 Shares
If you are able, during winter conditions i...
Boost post
February 23, 2021 at 9:41 AM
471 People reached
11 Post Engagements
6 Reactions
1 Comments
1 Shares
A friendly reminder from "across the po...
Boost post
February 22, 2021 at 10:12 AM
346 People reached
33 Post Engagements
5 Reactions
1 Comments
2 Shares
Only posts published after March 2019 will appear here.


Posts & stories
Create story
Create post
Published
Scheduled
Drafts
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
It's National Engineers Week! We celebr...
Boost post
February 22, 2021 at 9:41 AM
191 People reached
7 Post Engagements
2 Reactions
0 Comments
1 Shares
This post has no text
Boost post
February 17, 2021 at 9:59 AM
211 People reached
12 Post Engagements
2 Reactions
0 Comments
0 Shares
Overnight lows are forecast to dip near z...
Boost post
February 16, 2021 at 6:02 PM
419 People reached
24 Post Engagements
3 Reactions
2 Comments
4 Shares
Behind on your city water or pow...
Boost unavailable
February 12, 2021 at 8:50 AM
167 People reached
6 Post Engagements
2 Reactions
0 Comments
4 Shares
A good reminder to always keep your pe...
Boost post
February 10, 2021 at 10:42 AM
194 People reached
9 Post Engagements
2 Reactions
0 Comments
0 Shares
Maximum incomes allowed to qualify fo...
Boost post
February 8, 2021 at 1:42 PM
178 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
February 8, 2021 at 12:05 PM
171 People reached
2 Post Engagements
0 Reactions
0 Comments
1 Shares
This post has no text
Boost unavailable
February 8, 2021 at 10:24 AM
199 People reached
2 Post Engagements
0 Reactions
0 Comments
1 Shares
If you applied for CARES Act bill assista...
Boost post
February 5, 2021 at 8:59 AM
329 People reached
13 Post Engagements
4 Reactions
0 Comments
4 Shares
Only posts published after March 2019 will appear here.


Posts & stories
Create story
Create post
Published
Scheduled
Drafts
Search by post ID or caption
Shared to: all
Jan 1, 2021 - Dec 31, 2021
Customize columns
Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
This might be a bit optimistic - ou...
Boost unavailable
February 2, 2021 at 2:08 PM
237 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Did you know our 2020 CARES Act utility...
Boost post
January 28, 2021 at 9:14 AM
186 People reached
2 Post Engagements
2 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
January 27, 2021 at 11:28 AM
166 People reached
3 Post Engagements
2 Reactions
0 Comments
1 Shares
This post has no text
Boost unavailable
January 27, 2021 at 10:06 AM
261 People reached
17 Post Engagements
5 Reactions
4 Comments
4 Shares
When planning your spring garde...
Boost unavailable
January 26, 2021 at 9:24 AM
400 People reached
36 Post Engagements
3 Reactions
0 Comments
2 Shares
Great opportunity!
Boost unavailable
January 26, 2021 at 9:04 AM
97 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Still struggling to pay last year's bills whi...
Boost post
January 25, 2021 at 12:32 PM
171 People reached
3 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
January 15, 2021 at 2:33 PM
122 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Gotten behind on your bill? We still have ...
Boost post
January 15, 2021 at 10:03 AM
287 People reached
9 Post Engagements
5 Reactions
0 Comments
3 Shares
Only posts published after March 2019 will appear here.


Posts & stories
Create story
Create post
Published
Scheduled
Drafts
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Posts
Date published
Reach
Engagement
Reactions/likes
Comments
Shares
Great opportunity!
Boost unavailable
January 26, 2021 at 9:04 AM
97 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Still struggling to pay last year's bills whi...
Boost post
January 25, 2021 at 12:32 PM
171 People reached
3 Post Engagements
0 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
January 15, 2021 at 2:33 PM
122 People reached
0 Post Engagements
0 Reactions
0 Comments
0 Shares
Gotten behind on your bill? We still have ...
Boost post
January 15, 2021 at 10:03 AM
287 People reached
9 Post Engagements
5 Reactions
0 Comments
3 Shares
Interested in future city employment? W...
Boost post
January 11, 2021 at 11:37 AM
653 People reached
66 Post Engagements
10 Reactions
1 Comments
8 Shares
Waterways benefit too
Boost unavailable
January 7, 2021 at 4:39 PM
181 People reached
2 Post Engagements
2 Reactions
0 Comments
0 Shares
This post has no text
Boost unavailable
January 7, 2021 at 11:30 AM
171 People reached
2 Post Engagements
1 Reactions
0 Comments
0 Shares
Having trouble paying your city utility bill...
Boost post
January 5, 2021 at 10:33 AM
515 People reached
22 Post Engagements
10 Reactions
0 Comments
5 Shares
If you see water ponding in the street w...
Boost post
January 5, 2021 at 10:18 AM
264 People reached
6 Post Engagements
5 Reactions
0 Comments
0 Shares
Only posts published after March 2019 will appear here.

New GreenSpot Business Members in 2021

Industry	Business
office_and_education	Russell Tree Experts
office_and_education	The King Arts Complex
office_and_education	Mount Carmel Health System
office_and_education	King Business Interiors
office_and_education	JewishColumbus
restaurant_and_grocery	Wolf's Ridge Brewing
office_and_education	Studio Pence
industrial	Ashland LLC
office_and_education	Haven Collective
office_and_education	GEI Consultants, Inc.
industrial	PersonalCourierService
industrial	Green Street Design
industrial	Terracon Consultants, Inc.
industrial	Crimson Cup
office_and_education	The Garden District
restaurant_and_grocery	Strawberry Fields Columbus
industrial	Stauffers Painting Systems
office_and_education	Human Service Chamber of Franklin County
industrial	Spin
industrial	the compost exchange
industrial	The Limbach Company
office_and_education	Muslim Family Services of Ohio
office_and_education	Lehner Law LLC
office_and_education	Central Ohio Primary Care
office_and_education	North Community Counseling Centers, Inc.
office_and_education	The Columbus Foundation
office_and_education	The Wellington School

CITY COUNCIL MEETINGS - 2021

1/25/21	Reg.Mtg.#1 & 2, 5:00 & 6:30 p.m.
2/01/21	Reg.Mtg.#3 & 4, 5:00 & 6:30 p.m.
2/08/21	Reg.Mtg.#5 & 6, 5:00 & 6:30 p.m.
2/22/21	Reg.Mtg.#7 & 8, 5:00 & 6:30 p.m.
3/01/21	Reg.Mtg.#9 & 10, 5:00 & 6:30 p.m.
3/08/21	Reg.Mtg.#11 & 12, 5:00 & 6:30 p.m.
3/22/21	Reg.Mtg.#13 & 14, 5:00 & 6:30 p.m.
3/29/21	Reg.Mtg.#15 & 16, 5:00 & 6:30 p.m.
4/05/21	Reg.Mtg.#17 & 18, 5:00 & 6:30 p.m.
4/19/21	Reg.Mtg.#19 & 20, 5:00 & 6:30 p.m.
4/26/21	Reg.Mtg.#21 & 22, 5:00 & 6:30 p.m.
5/10/21	Reg.Mtg.#23 & 24, 5:00 & 6:30 p.m.
5/17/21	Reg.Mtg.#25 & 26, 5:00 & 6:30 p.m.
5/24/21	Reg.Mtg.#27 & 28, 5:00 & 6:30 p.m.
6/07/21	Reg.Mtg.#29 & 30, 5:00 & 6:30 p.m.
6/14/21	Reg.Mtg.#31 & 32, 5:00 & 6:30 p.m.
6/21/21	Reg.Mtg.#33 & 34, 5:00 & 6:30 p.m.
6/28/21	Reg.Mtg.#35 & 36, 5:00 & 6:30 p.m.
7/12/21	Reg.Mtg.#37 & 38, 5:00 & 6:30 p.m.
7/19/21	Reg.Mtg.#39 & 40, 5:00 & 6:30 p.m.
7/26/21	Reg.Mtg.#41 & 42, 5:00 & 6:30 p.m.
9/13/21	Reg.Mtg.#43 & 44, 5:00 & 6:30 p.m.
9/20/21	Reg.Mtg.#45 & 46, 5:00 & 6:30 p.m.
9/27/21	Reg.Mtg.#47 & 48, 5:00 & 6:30 p.m.
10/11/21	Reg.Mtg.#49 & 50, 5:00 & 6:30 p.m.
10/18/21	Reg.Mtg.#51 & 52, 5:00 & 6:30 p.m.
10/25/21	Reg.Mtg.#53 & 54, 5:00 & 6:30 p.m.
11/08/21	Reg.Mtg.#55 & 56, 5:00 & 6:30 p.m.
11/15/21	Reg.Mtg.#57 & 58, 5:00 & 6:30 p.m.
11/22/21	Reg.Mtg.#59 & 60, 5:00 & 6:30 p.m.
12/06/21	Reg.Mtg.#61 & 62, 5:00 & 6:30 p.m.
12/13/21	Reg.Mtg.#63 & 64, 5:00 & 6:30 p.m.

Addresses of Home Sewage Treatment Systems Known to Discharge to The City of Columbus MS4
December 31, 2021

Address	Size (inches)	Configuration	Material
1001 Meeklynn Dr	18	Circular	Concrete
1050 E Cooke Rd	4	Circular	Plastic
1169 E Cooke Rd	Unknown	Circular	Plastic
1271 Southport Cir	12	Circular	Concrete
1290 Northport Cir	18	Circular	Clay
1300 Northport Dr	12	Circular	Clay
1301 Southport Dr	12	Circular	Metal
1309 Northport Cir	4	Channel	Plastic
1315 Southport Dr	12	Circular	Plastic
1328 Northport Dr	12	Circular	Clay
1335 Southport Dr	12	Circular	Concrete
1342 Northport Dr	4	Channel	Plastic
1355 Southport Dr	12	Circular	Concrete
1356 Northport Dr	12	Circular	Clay
1359 Northport Dr	4	Channel	Plastic
1371 Northport Dr	4	Channel	Plastic
1379 Southport Dr	12	Circular	Concrete
1385 Northport Dr	4	Channel	Plastic
1388 Portage Dr	8	Circular	Clay
1390 Southport Dr	10	Circular	Clay
1400 Northport Dr	12	Circular	Clay
1460 West Case Rd	4	Channel	Plastic
1582 Studer Ave	12	Circular	Concrete
1593 West Case Rd	4	Circular	Plastic
1696 Georgesville Pl	12	Circular	Concrete
1700 West Case Rd	Unknown	Unknown	Unknown
1702 Georgesville Pl	12	Circular	Concrete
1710 Barnett Rd	12	Circular	Clay
1712 Barnett Rd	24	Circular	Concrete
1715 E 24Th Ave	12	Circular	Concrete
1800 Snouffer Rd	4	Circular	Plastic
1815 Dyer Rd	4	Channel	Plastic
1820 Snouffer Rd	4	Circular	Plastic
1828 Snouffer Rd	15	Circular	Clay
1855 Snouffer Rd	15	Circular	Plastic
1865 Snouffer Rd	10	Circular	Clay
1867 Snouffer Rd	15	Circular	Plastic
1890 Snouffer Rd	4	Channel	Plastic
1891 Snouffer Rd	12	Circular	Plastic
1907 Snouffer Rd	12	Circular	Plastic
1992 Brown Rd	10	Circular	Plastic

List does not include semi-publics or other discharging systems for which connections to the MS4 have not been confirmed.

Addresses of Home Sewage Treatment Systems Known to Discharge to The City of Columbus MS4
December 31, 2021

Address	Size (inches)	Configuration	Material
2200 Sunbury Rd	27	Circular	Clay
2221 Watkins Rd	8	Circular	Clay
2300 Sunbury Rd	18	Circular	Concrete
2322 Sunbury Rd	12	Circular	Concrete
2374 Sunbury Rd	12	Circular	Concrete
2385 Stelzer Rd	21	Circular	Concrete
2445 Brooklyn Rd	15	Circular	Concrete
2456 Harrisburg Pike	15	Circular	Concrete
2626 Fisher Rd	24	Circular	Concrete
2665 Spangler Rd	24	Circular	Concrete
2709 Agler Rd	42	Circular	Concrete
2900 Innis Rd	18	Circular	Concrete
2901 Brookdown Dr	12	Circular	Concrete
3078 Lewis Rd	30	Circular	Concrete
3085 Brookdown Dr	4	Channel	Plastic
3171 E Deshler Ave	Unknown	Circular	Concrete
3209 Glenoak Dr	10	Circular	Concrete
3458 Bexvie Ave	Unknown	Unknown	Unknown
3555 El Paso Dr	8	Circular	Concrete
3600 Ferrell Pl	12	Circular	Concrete
3712 Behm Rd	8	Circular	Concrete
3750 Behm Rd	8	Circular	Clay
3956 Sunbury Rd	12	Circular	Concrete
3992 Sunbury Rd	10	Circular	Concrete
477 E Kanawha Ave	6	Channel	Plastic
4815 Trabue Rd	4	Channel	Plastic
4927 Postlewaite Rd	12	Circular	Concrete
5180 Broadview Rd	4	Channel	Plastic
5215 Cherry Bottom Rd	4	Channel	Plastic
5236 Cherry Bottom Rd	Unknown	Unknown	Unknown
5240 Cherry Bottom Rd	Unknown	Unknown	Unknown
5250 Cherry Bottom Rd	Unknown	Unknown	Unknown
5262 Cherry Bottom Rd	Unknown	Unknown	Unknown
6015 Cooper Rd	4	Channel	Plastic
6033 Refugee Rd	6	Circular	Plastic
6350 Harlem Rd	Unknown	Unknown	Unknown
6847 Smoky Row Rd	24	Circular	Concrete
885 Meeklynn Dr	8	Circular	Plastic
949 Meeklynn Dr	12	Circular	Concrete

List does not include semi-publics or other discharging systems for which connections to the MS4 have not been confirmed.

City of Columbus
2021 Employee Training Summary

Date(s)	Sponsor	Name of Class / Description	No. of City Attendees	Program Element
01/12/21	GEOSYSTEMS	Repair & Reduce Slope Erosion with the GEOWEB System	1	CP
01/26/21	NOAA	Overwhelmed? Reevaluating Stormwater Design in a Changing Climate	1	PD
02/11/21	Ohio Environmental Protection Agency	Preparing a Storm Water Pollution Prevention Plan	1	IF
02/23/21	GEOSYSTEMS	Designing Naturally Vegetated & Hard-Armored Retaing Walls	1	CP
02/23/21	Ohio Stormwater Association	Designing Active Construction Sediment Settling Ponds	1	CP
02/23/21	Cuyahoga Soil and Water Conservation District	Watershed-friendly Stream Maintenance: A Guide for Communities	5	CP, GH, IDDE
02/25/21	Hydro International	Stormwater Maintenance Compliance	1	PC
03/02/21	GEOSYSTEMS	Reduce Stormwater Infrastructure with Porous Pavements	1	CP
04/13/21	GEOSYSTEMS	Permanent Stabilization for Roads, Highways & Bridges	1	CP
04/15/21	Franklin SWCD	Wetlands: An MS4 Perspective	9	PD, CP, PC
04/29/21	US EPA	EPA Tools and Resources Training: Watershed Management Optimization Support Tool	3	PD, PC
05/11/21	City of Columbus - Public Utilities	Post Construction SCP Inspection and Quality Assurance Training	1	PC
05/11/21	Mid-Ohio Regional Planning Commission	MORPC Virtual Forum: Updating Ohio Precipitation Data for Stormwater and Flooding Planning	2	PD, PC

PD - Program Development
PE - Public Education and Outreach
GH - Good Housekeeping
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IDDE - Illicit Discharge Detection/Elimination
PC - Post Construction
WWM - Wet Weather Monitoring

City of Columbus
2021 Employee Training Summary

Date(s)	Sponsor	Name of Class / Description	No. of City Attendees	Program Element
05/19/21	Ohio Stormwater Association	MS4 Boot Camp	6	CP, PC, IDDE, GH, IF
06/09/21	OSU FABE	2021 Overholt Drainage Workshop	1	PD
06/10/21	OEPA	Regulation and Funding of Household Sewage Treatment Systems in Ohio	1	IDDE
06/17/21	Hydro International	The Future of Stormwater Regulations	1	PD, PC
06/30/21	USEPA	Road Salts and Freshwater Salinization Syndrome	1	IDDE
07/01/21	OEPA	Troubleshooting Noncompliance for Smaller Mechanical Wastewater Treatments Plants	1	IDDE
07/15/21	Franklin SWCD	Central Ohio Stormwater Roundtable	5	PC
07/15/21	Water Environment Federation	Stormwater Utilities: Impacts for Legislative Exemptions	4	PD
07/21/21	Water Management Association of Ohio	Introduction to EPA's New "How's My Waterway" Tool	1	PD, IDDE
07/26/21	ASABE - Northeast Agricultural and Biological Engineering Conference	NABEC 2021	1	PD, PC
08/06/21	ODOT, ODNR, OEPA	2021 Litter Summit	2	IDDE, GH

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City of Columbus
2021 Employee Training Summary

Date(s)	Sponsor	Name of Class / Description	No. of City Attendees	Program Element
08/09/21	American Stormwater Institute	Qualified Industrial Stormwater Inspector	5	IF
08/12/21	OEPA	Environmental Regulations of Businesses in your community	1	PD
08/18/21	WMAO	Stormwater Outfall Inspections	1	IDDE
08/21/21	Franklin County Soil and Water/ Center for Watershed Protection	Central Ohio Stormwater Roundtable #3: SWDM Updates	1	CP, PC
09/14/21	NOAA Climate Program Office, National Centers for Environmental Information, Water Research Foundation	Our Changing Precipitation Webinar Series Session 1: Focus on Science	1	PD, PC
09/15/21	Center for Watershed Protection	CWPAWebcast 7 Public Involvement and Education Programs	1	PI, PE
09/21/21	NOAA Climate Program Office, National Centers for Environmental Information, Water Research Foundation	Our Changing Precipitation Webinar Series Session 2: From Science to Application - Climate Science, Hydrology, and Planning - Part 1	1	PD, PC
09/23/21	Stormwater Solutions & Center for Watershed Protection	Tracking Bacteria in Storm Water Runoff During Dry & Wet Weather	1	IDDE
09/28/21	NOAA Climate Program Office, National Centers for Environmental Information, Water Research Foundation	Our Changing Precipitation Webinar Series Session 3: From Science to Application - Climate Science, Hydrology, and Planning - Part 2	1	PD, PC

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City of Columbus
2021 Employee Training Summary

Date(s)	Sponsor	Name of Class / Description	No. of City Attendees	Program Element
10/05/21	NOAA Climate Program Office, National Centers for Environmental Information, Water Research Foundation	Our Changing Precipitation Webinar SeriesSession 4: What's on the Horizon for Science and Application of Climate Change Information for Water Infrastructure Managers	1	PD, PC
10/07/21	Center for Watershed Protection	Modifying CWPs Unified Stream Assessment Protocol For Use in Rural Streams	1	CP, PC
10/12/21	NOAA Climate Program Office, National Centers for Environmental Information, Water Research Foundation	Our Changing Precipitation Webinar Series Session 5: Peer Examples - Evaluating Changing Precipitation Trends for Managing Water Infrastructure	1	PD, PC
10/12/21	OEPA	OEPA Nuisance Waste Sties, Illegal Dumping and Scrap Tires in Your Community	2	PD, PC
10/20/21	Ohio Water Resources Center and the Water Management Association of Ohio	The Why and How of Honeysuckle Removal Along Waterways	1	PC
10/20/21	Center for Watershed Protection	Post Construction Stormwater Management	5	PC
10/21/21	Franklin SWCD	Central Ohio Stormwater Roundtable	6	PD
11/04/21	Total Compliance	HAZWOPER Operations Level - Refresher	5	IDDE

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City of Columbus
2021 Employee Training Summary

Date(s)	Sponsor	Name of Class / Description	No. of City Attendees	Program Element
11/04/21	NOAA Climate Program Office, National Centers for Environmental Information, Water Research Foundation	Showcasing Leading Practices in Climate Adaptation - Session 1: Leading Practices in Climate Adaptation	1	PD
11/18/21	NOAA Climate Program Office, National Centers for Environmental Information, Water Research Foundation	Session 2: Climate Adaptation Engineering Case Studies	1	PD
11/18/21	National Municipal Stormwater Alliance	2021 National Municipal Stormwater Alliance Public Meeting	1	PD
12/01/21	American Society of Landscape Architects	Green Infrastructure: A Blueprint for Climate Resilient Communities	1	PD, PC
12/02/21	NOAA Climate Program Office, National Centers for Environmental Information, Water Research Foundation	Session 3: Business Function Mapping	1	PD
12/09/21	Ohio Department of Transportation	Assessment of Existing and Potential Volume Reduction for Post Construction Stormwater Management	1	PC
12/09/21	NOAA Climate Program Office, National Centers for Environmental Information, Water Research Foundation	Session 4: Equity and Environmental Justice Considerations in Climate Adaptation	1	PD
12/30/21	ENVIROCERT international	Certified Erosion, Sediment & Storm Water inspector: General Principles Review Course	1	CP
various	American Stormwater Institute	Qualified Stormwater Inspector	5	IDDE

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City of Columbus
2021 Employee Training Summary

Date(s)	Sponsor	Name of Class / Description	No. of City Attendees	Program Element
various	Department of Public Utilities, Divisions of Water and Power	SWPPP training at 3 water treatment plants, 910 Dublin Road facility, 3 watershed management facilities, and 3500/3568 Indianola Avenue facility.	154	GH
various	Department of Public Utilities, Division of Sewerage and Drainage	SWPPP training at 2 wastewater treatment plants, the Compost facility, Sewer Maintenance Operations Center, and the Grit Pad facility.	111	GH
various	Department of Public Service, Division of Refuse	SWPPP training at 3 city-operated refuse collection facilities.	70	GH
various	Department of Public Service, Traffic Management Division	SWPPP training for employees.	59	GH
various	Department of Public Service, Infrastructure Management Division	SWPPP and snow removal training for 6 transportation maintenance facilities.	114	GH
various	Columbus Public Health	SWPPP training for employees.	3	GH
various	Department of Recreation & Parks	SWPPP training for 14 maintenance facilities and 5 city-owned golf courses.	40	GH
various	Department of Finance & Management	SWPPP training for fleet and facilities management.	30	GH
various	Department of Public Safety, Division of Fire	SWPPP training at 33 fire stations.	1000	GH
various	Department of Public Safety, Division of Police	SWPPP training at 5 support facilities.	10	GH

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PC - Post Construction
WWM - Wet Weather Monitoring

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0275T0139	1/13/2021					0							
0142T0052	1/14/2021					0.1	7.4	4	0	0.1	0	0.1	
0568T0583	1/22/2021					0							
BW239	1/22/2021					0							
BW240	1/22/2021					0							
0396T0236	1/22/2021					0							
WC7	1/22/2021					0							
WC8	1/22/2021					0							
0568T0859	1/22/2021					0							
BW251	1/22/2021					0							
0568T0795	1/22/2021					0							
0396T0045	1/22/2021					0							
0568T0805	1/22/2021					0							
0320T0770	1/22/2021					0							
BW241	1/22/2021					0							
WC5	1/22/2021					0							
WC6	1/22/2021					0							
0472T000A	3/9/2021					0.01	7		0	0		0.1	
BW74	3/9/2021					0							
BW78	3/9/2021					0							
0314T0697	4/7/2021					1			0	0	0	0.2	
BW232	4/7/2021					0							
BW213	4/7/2021					0							
BW194	4/7/2021					0							
BW195	4/7/2021					0							
0313T0143	4/7/2021					1	7	50	0	0	0	0.2	
BW70	4/7/2021												
0161T0461	4/13/2021					0							
SC292	4/13/2021					0							
SC293	4/13/2021					0							
0391T0700	4/19/2021					0							
BW92	4/19/2021					0							
BW97	4/19/2021					0							
BW98	4/19/2021					0							
BW101	4/19/2021					0							
BW102	4/19/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0356T0257	4/19/2021					0							
0316T0133	4/19/2021					0.1	7.2	7	0	0	0	0.2	
0316T0138	4/19/2021					0							
0159T0855	4/20/2021					0.1	7.1	8	0	0	0	0.25	
0159T0132	4/20/2021					0							
0214T0036	4/20/2021					0							
0204T0335	4/20/2021					0							
SC215	4/27/2021					0							
SC216	4/27/2021					0							
SC284	4/27/2021					0							
BW258	5/20/2021					0							
0239T0527	5/20/2021					0							
0562T0047	5/20/2021					0							
AC143	5/20/2021					0							
BW336	5/20/2021					0							
BW337	5/20/2021					0							
BW280	5/20/2021					0							
BW293	5/20/2021					0							
BW307	5/20/2021					0							
0376T0480	5/20/2021					0							
0376T0705	5/20/2021	Clear	None	Clear	No	0.02	7.6	19	0	0	0.1	0.2	
0304T0518	5/20/2021					0							
0303T1783	5/20/2021	Clear		Clear	No	N/M	7.5	18	0	0	0	0.2	
0376T0302	5/20/2021					0							
0303T0678	5/20/2021					0							
0239T0203	5/20/2021					0							
0303T1830	5/20/2021					0							
0305T0437	5/20/2021					0							
0239T0227	5/20/2021					0							
0239T0740	5/20/2021					0							
0305T0541	5/20/2021					0							
0071T0770	5/21/2021					0							
SC342	5/21/2021					0							
SC343	5/21/2021					0							
0020T0018	5/21/2021					0							
0215T0601	5/21/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0043T1057	5/21/2021					0							
0021T0314	5/21/2021					0							
0020T0009	5/21/2021					0							
0042T0291	5/21/2021					0							
0020T0022	5/21/2021					0							
AC126	5/24/2021					0							
0858T0370	5/24/2021					0							
0858T0109	5/24/2021					0							
0858T0275	5/24/2021					0							
0858T0051	5/24/2021					0							
0858T0035	5/24/2021					0							
0858T0280	5/24/2021					0							
0858T0259	5/24/2021					0							
0858T0317	5/24/2021					0							
0858T0492	5/24/2021					0							
BW114	5/26/2021					0							
BW115	5/26/2021					0							
0477T0242	5/26/2021					0							
BW308	5/26/2021					0							
0394T0472	5/26/2021					0							
0478T0909	5/26/2021					0							
0477T0350	5/26/2021					0							
0477T0393	5/26/2021					0							
0481T0113	5/26/2021					0							
0478T1002	5/26/2021					0							
0393T0024	5/26/2021					0							
BW350	5/26/2021					0							
WC30	5/26/2021					0							
0317T0520	5/26/2021					0							
0393T0047	5/26/2021					0							
0391T0376	5/26/2021					0							
0216T0663	6/14/2021					0							
0216T0866	6/14/2021	Clear		Clear		0.01	7.7	22	0	0	0	0.3	
0216T0998	6/14/2021					0							
0216T0660	6/14/2021					0							
0216T0191	6/14/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0216T0172	6/14/2021					0							
AC151	6/15/2021					0							
AC152	6/15/2021					0							
AC135	6/15/2021					0							
AC136	6/15/2021					0							
1108T1204	6/15/2021					0							
1108T0764	6/15/2021					0							
0857T0289	6/15/2021					0							
1245T0616	6/15/2021					0							
1108T1196	6/15/2021					0							
1108T1205	6/15/2021					0							
1108T0760	6/15/2021					0							
1107T1533	6/15/2021					0							
0979T0518	6/15/2021					0							
0979T0523	6/15/2021					0							
1245T0619	6/15/2021					0							
1108T1216	6/15/2021					0							
1108T1232	6/15/2021					0							
0979T0515	6/15/2021					0							
0979T0521	6/15/2021					0							
1245T0612	6/15/2021					0							
1108T1179	6/15/2021					0							
AC158	6/15/2021					0							
AC169	6/15/2021					0							
0101T0372	6/16/2021					0							
BW20	6/16/2021					0							
AC140	6/16/2021					0							
AC141	6/16/2021					0							
AC142	6/16/2021					0							
BW303	6/16/2021					0							
0144T0087	6/16/2021					0							
0145T0372	6/16/2021					0							
0100T0172	6/16/2021					0							
0264T0178	6/16/2021					0							
0264T0198	6/16/2021					0							
0101T0429	6/16/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0101T0390	6/16/2021					0							
0099T0035	6/16/2021					0							
0333T0100	6/16/2021					0							
0333T0101	6/16/2021					0							
0264T0212	6/16/2021					0							
0099T0008	6/16/2021					0							
0145T0362	6/16/2021					0							
0101T0117	6/16/2021	Clear	None	Clear	No	0.01	7.4	21	0	0	0	0.2	
SC379	6/16/2021					0							
0101T0299	6/16/2021					0							
0144T0030	6/16/2021					0							
0176T0784	6/18/2021					0							
0176T0785	6/18/2021					0							
AC105	6/21/2021					0							
0179T0293	6/21/2021					0							
0179T0716	6/21/2021					0							
0247T0123	6/21/2021					0							
0561T0526	6/21/2021					0							
0471T0535	6/21/2021					0							
0314T0202	6/21/2021					0							
0660T0817	6/21/2021					0							
0560T0320	6/21/2021					0							
0660T0492	6/21/2021					0							
0660T0469	6/21/2021					0							
0660T0471	6/21/2021					0							
0661T0081	6/21/2021					0							
BW361	6/21/2021												
BW364	6/21/2021					0							
BW365	6/21/2021					0							
BW366	6/21/2021					0							
BW367	6/21/2021					0							
0661T0051	6/21/2021					0							
0660T0292	6/21/2021					0							
0561T0194	6/21/2021					0							
OL130	6/22/2021					0							
OL131	6/22/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0540T0001	6/22/2021					0							
OL153	6/22/2021					0							
OL154	6/22/2021					0							
OL155	6/22/2021					0							
0127T0760	6/22/2021					0							
0451T0070	6/22/2021					0							
0450T0464	6/22/2021					0							
0127T0712	6/22/2021					0							
0127T0753	6/22/2021					0							
0127T1027	6/22/2021					0							
0127T0756	6/22/2021					0							
0451T0314	6/22/2021	Clear	None	Clear	No	0.02	7.6	18	0	0	0	0.4	
OL173	6/22/2021					0							
OL175	6/22/2021					0							
0451T0048	6/22/2021					0							
0370T0323	6/22/2021					0							
0127T0864	6/22/2021					0							
0370T0317	6/22/2021					0							
0127T0924	6/22/2021					0							
0127T0749	6/22/2021					0							
0299T0470	6/23/2021					0							
0299T0828	6/23/2021					0							
0297T0774	6/23/2021					0							
0297T0773	6/23/2021					0							
0299T0166	6/23/2021					0							
OL165	6/23/2021					0							
OL167	6/23/2021	Clear	None	Clear	No	N/M	7.5	16	0	0	0	0.2	
OL168	6/23/2021					0							
OL169	6/23/2021					0							
BW81	6/24/2021					0							
BW82	6/24/2021					0							
BW83	6/24/2021					0							
0175T0707	6/24/2021					0							
0175T0111	6/24/2021												
0175T0115	6/24/2021					0							
0175T0113	6/24/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0175T0526	6/24/2021	Clear	None	Clear	No	0.02	7.6	18	0	0	0	0.2	
BW79	6/24/2021					0							
BW80	6/24/2021					0							
OL205	6/24/2021					0							
OL206	6/24/2021					0							
OL207	6/24/2021	Clear	None	Clear	No	0.01	7.7	18	0	0	0	0.2	
OL208	6/24/2021					0							
OL209	6/24/2021					0							
OL210	6/24/2021					0							
0317T0138	6/28/2021					0							
BW320	6/28/2021					0							
BW321	6/28/2021					0							
BW325	6/28/2021					0							
BW275	6/28/2021					0							
0394T0185	6/28/2021	Clear	None	Clear	No	0.01	7.5	20	0	0	0.2	0	
0317T0354	6/28/2021					0							
0317T0153	6/28/2021					0							
0251T0413	6/28/2021					0							
0394T0328	6/28/2021					0							
0317T0142	6/28/2021					0							
0233T0752	6/29/2021					0							
0047T0005	6/29/2021					0							
0046T1019	6/29/2021					0							
0046T0995	6/29/2021					0							
0046T0445	6/29/2021					0							
0046T0442	6/29/2021					0							
0046T0339	6/29/2021					0							
0046T0441	6/29/2021					0							
0046T0436	6/29/2021					0							
0046T0440	6/29/2021					0							
SC371	6/29/2021					0							
SC372	6/29/2021					0							
SC373	6/29/2021					0							
SC374	6/29/2021					0							
0233T0715	6/29/2021					0							
0233T0985	6/29/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0233T1010	6/29/2021					0							
1107T1238	7/20/2021					0							
1107T0270	7/20/2021					0							
1236T0035	7/20/2021					0							
1107T1585	7/20/2021					0							
1107T1241	7/20/2021					0							
1107T1484	7/21/2021					0							
1107T0138	7/21/2021					0							
1107T1476	7/21/2021					0							
BW112	7/21/2021					0							
1107T0144	7/21/2021					0							
AC150	7/21/2021					0							
1107T1581	7/21/2021					0							
0392T0156	7/22/2021					0							
BW111	7/22/2021					0							
BW113	7/22/2021					0							
0472T0541	7/22/2021					0							
0472T0648	7/22/2021					0							
0472T0537	7/22/2021					0							
0391T0693	7/22/2021					0							
0117T0284	7/23/2021	Clear				1	7		0	0	0	1	
0117T0228	7/23/2021	Clear				2	7		0	0	0	0.1	
0117T0024	7/23/2021	Clear				1	7		0	0	0	0.1	
0117T0848	7/23/2021	Clear				1	7		0	0	0	0.1	
0147T0028	7/28/2021					0							
0148T0280	7/28/2021					0							
BW24	7/28/2021					0							
0104T0380	7/28/2021					0							
0102T0072	7/28/2021					0							
0067T0422	7/28/2021					0							
0067T0495	7/28/2021					0							
0147T0375	7/28/2021					0							
0551T0395	8/4/2021					0							
0551T0437	8/4/2021					0							
0551T0442	8/4/2021					0							
0551T0458	8/4/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0551T0398	8/4/2021					0							
0471T0505	8/5/2021					0							
0471T0531	8/5/2021					0							
BW368	8/5/2021					0							
0116T0238	8/24/2021												
0117T0129	8/24/2021												
0115T0305	8/24/2021												
0116T0513	8/24/2021												
0116T0749	8/24/2021												
0116T0733	8/24/2021												
0116T0738	8/24/2021												
0117T0062	8/24/2021												
0117T0585	8/24/2021												
0117T0258	8/24/2021												
0117T0205	8/24/2021												
0115T0304	8/24/2021												
0117T0259	8/24/2021												
0634T0252	8/25/2021												
0389T0089	9/8/2021												
BW2	9/8/2021					0							
BW3	9/8/2021					0							
0297T0052	9/8/2021												
0388T0381	9/8/2021					0							
0297T0543	9/8/2021												
0297T0099	9/8/2021												
0317T0383	9/8/2021					0							
0388T0022	9/8/2021	Clear	None	Clear	No	0.02	7.8	20	0	0	0	0.3	
BW99	9/8/2021					0							
BW143	9/8/2021					0							
BW144	9/8/2021					0							
BW145	9/8/2021					0							
OL18	9/8/2021												
OL19	9/8/2021												
OL47	9/8/2021												
OL48	9/8/2021												
OL50	9/8/2021												

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
BW146	9/8/2021					0							
BW147	9/8/2021					0							
BW179	9/8/2021					0							
BW180	9/8/2021					0							
BW181	9/8/2021					0							
BW182	9/8/2021					0							
0389T0880	9/8/2021					0							
BW304	9/8/2021					0							
OL144	9/8/2021												
OL145	9/8/2021												
OL146	9/8/2021												
OL156	9/8/2021												
0297T0604	9/8/2021												
0393T0053	9/8/2021					0							
0297T0502	9/8/2021												
0297T0541	9/8/2021												
0389T0061	9/8/2021					0							
0388T0104	9/8/2021					0							
0388T0060	9/8/2021					0							
0369T0526	9/8/2021												
0297T0104	9/8/2021												
0369T0513	9/8/2021												
0315T0369	9/8/2021					0							
0315T0204	9/8/2021					0							
0315T0138	9/8/2021					0							
0315T0613	9/8/2021					0							
0388T0382	9/8/2021					0							
0317T0469	9/8/2021					0							
0392T0329	9/8/2021					0							
0369T0103	9/8/2021												
0369T0776	9/8/2021												
0389T0974	9/8/2021					0							
0297T0095	9/8/2021												
0297T1014	9/8/2021												
0753T0324	9/9/2021					0							
BW237	9/9/2021	Clear	None	Clear	No	0.01	7.6	19	0	0	0	0.2	

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0753T0287	9/9/2021	Clear	None	Clear	No	0.01	7.5	19	0	0	0	0.4	
BW54	9/9/2021					0							
BW55	9/9/2021					0							
BW225	9/9/2021					0							
BW226	9/9/2021					0							
BW227	9/9/2021					0							
BW277	9/9/2021					0							
BW278	9/9/2021					0							
BW317	9/9/2021					0							
0753T0389	9/9/2021					0							
0753T0055	9/9/2021					0							
0023T0987	9/10/2021												
SC228	9/10/2021												
0169T0376	9/10/2021												
0550T0470	9/10/2021					0							
0001T2120	9/10/2021												
0550T0496	9/10/2021					0							
0550T0145	9/10/2021					0							
0001T0663	9/10/2021												
BW215	9/10/2021					0							
BW216	9/10/2021					0							
BW217	9/10/2021					0							
BW218	9/10/2021					0							
0394T0235	9/10/2021					0							
BW125	9/10/2021					0							
0024T0360	9/10/2021												
BW322	9/10/2021	Clear	None	Clear	No	.01	7.5	17	0	0	0	0.6	
BW61	9/10/2021					0							
BW62	9/10/2021					0							
BW63	9/10/2021					0							
BW64	9/10/2021					0							
BW67	9/10/2021					0							
0001T3164	9/10/2021												
BW272	9/10/2021												
BW273	9/10/2021					0							
BW274	9/10/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0549T0354	9/10/2021												
0549T0352	9/10/2021												
0001T2115	9/10/2021												
0394T0917	9/10/2021												
0024T0382	9/10/2021												
0461T0413	9/10/2021					0							
0549T0403	9/10/2021					0							
SC350	9/10/2021												
SC351	9/10/2021												
0001T3454	9/10/2021												
0001T3412	9/10/2021												
0001T3468	9/10/2021												
0001T3471	9/10/2021												
0001T3800	9/10/2021												
0001T3837	9/10/2021												
0171T0516	9/10/2021												
0305T0849	9/13/2021												
0305T0841	9/13/2021	Clear	None	Clear	No								
1108T0811	9/13/2021	Clear	None		No	N/M							
AC5	9/13/2021					0							
0307T0480	9/13/2021												
0746T0408	9/13/2021	Clear	None	Clear	No	0.02	7.4	18	0	0	0		
BW128	9/13/2021												
0305T0294	9/13/2021												
BW154	9/13/2021												
BW155	9/13/2021												
AC123	9/13/2021												
AC124	9/13/2021												
AC125	9/13/2021												
BW287	9/13/2021												
BW288	9/13/2021												
BW346	9/13/2021												
0642T0297	9/13/2021					0							
0307T0091	9/13/2021												
0745T0207	9/13/2021												
0745T0248	9/13/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0640T0977	9/13/2021					0							
0979T0422	9/13/2021												
0640T0946	9/13/2021					0							
1107T1234	9/13/2021												
0979T0428	9/13/2021	Clear	None		No	0.01							
0978T1088	9/13/2021												
0306T0171	9/13/2021												
0306T1127	9/13/2021												
0305T0818	9/13/2021												
0640T0996	9/13/2021					0							
0745T0404	9/13/2021					0							
0745T0403	9/13/2021					0							
AC156	9/13/2021					0							
0979T0418	9/13/2021												
0979T0425	9/13/2021												
0745T0367	9/13/2021					0							
0745T0370	9/13/2021					0							
1107T1235	9/13/2021												
0978T0757	9/13/2021												
0979T0097	9/13/2021												
0546T0339	9/13/2021					0							
0307T1248	9/13/2021												
0978T1676	9/13/2021												
0746T0589	9/13/2021					0							
0746T0734	9/13/2021					0							
0394T0332	9/14/2021	Clear	None	Clear	No	N/M							
0106T0009	9/14/2021					0							
0477T1184	9/14/2021												
0477T0014	9/14/2021												
SC13	9/14/2021					0							
AC14	9/14/2021					0							
BW17	9/14/2021												
0586T0072	9/14/2021					0							
0394T0708	9/14/2021												
BW37	9/14/2021												
BW38	9/14/2021												

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0319T0720	9/14/2021												
0318T0061	9/14/2021												
0394T1216	9/14/2021												
0318T0030	9/14/2021												
0477T0386	9/14/2021												
0568T0736	9/14/2021												
0319T0721	9/14/2021												
0493T0022	9/14/2021					0							
0493T0020	9/14/2021					0							
BW262	9/14/2021					0							
BW263	9/14/2021					0							
0394T0372	9/14/2021												
0569T0384	9/14/2021												
0477T0398	9/14/2021												
0318T0526	9/14/2021												
0151T0088	9/14/2021					0							
BW75	9/14/2021												
SC362	9/14/2021					0							
SC363	9/14/2021					0							
0477T0440	9/14/2021												
0394T0381	9/14/2021												
0478T1133	9/14/2021												
0264T0406	9/14/2021					0							
0264T0403	9/14/2021					0							
0264T0414	9/14/2021					0							
0264T0399	9/14/2021					0							
0264T0406	9/14/2021												
0264T0414	9/14/2021												
0458T0663	9/20/2021					0							
0299T0386	9/20/2021												
0234T4175	9/20/2021												
BW47	9/20/2021					0							
BW48	9/20/2021					0							
1245T0415	9/20/2021												
OL90	9/20/2021												
OL91	9/20/2021	Clear	None		No								

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
OL92	9/20/2021												
BW231	9/20/2021					0							
0377T0314	9/20/2021					0							
0299T0444	9/20/2021												
0299T0612	9/20/2021												
0646T000A	9/20/2021												
BW49	9/20/2021					0							
BW324	9/20/2021					0							
BW326	9/20/2021					0							
BW269	9/20/2021					0							
BW270	9/20/2021					0							
BW298	9/20/2021					0							
0547T0019	9/20/2021					0							
0234T0183	9/20/2021												
0378T0437	9/20/2021					0							
0378T0265	9/20/2021					0							
0378T0439	9/20/2021					0							
OL164	9/20/2021												
0458T0293	9/20/2021					0							
0377T0376	9/20/2021					0							
1108T1275	9/20/2021												
0299T0201	9/20/2021												
0160T0569	9/27/2021										0		
0160T0574	9/27/2021					0							
0275T0018	9/27/2021					0							
SC261	9/27/2021					0							
0159T0960	9/27/2021					0							
0006T0489	9/27/2021												
SC260	9/27/2021					0							
SC262	9/27/2021					0							
SC263	9/27/2021					0							
SC264	9/27/2021					0							
0160T0580	9/27/2021					0							
SC303	9/27/2021					0							
SC304	9/27/2021					0							
0160T0577	9/27/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0304T0889	9/28/2021					0							
0399T0093	9/28/2021					0							
0399T0033	9/28/2021	Clear	None	Clear	No	0.01	7.6	17	0	0	0	0.4	0.25
0573T0083	9/28/2021					0							
0304T0453	9/28/2021					0							
0399T0094	9/28/2021					0							
0303T0565	9/28/2021					0							
0303T0435	9/28/2021					0							
0304T0752	9/28/2021					0							
0352T0016	9/28/2021												
0280T0373	9/28/2021	Clear	None			N/M							
WC13	9/28/2021					0							
WC14	9/28/2021					0							
0305T0450	9/28/2021					0							
SC4	9/28/2021												
BW148	9/28/2021					0							
BW149	9/28/2021					0							
WC12	9/28/2021					0							
0303T1831	9/28/2021					0							
0304T0755	9/28/2021					0							
SC169	9/28/2021												
0399T1054	9/28/2021					0							
0399T1086	9/28/2021					0							
0399T1087	9/28/2021					0							
0092T0351	10/1/2021					0							
0136T0073	10/1/2021	Clear		Clear	No	0.01	7.4	15	0	0	0	0.4	0.5
0092T0347	10/1/2021					0							
BW249	10/1/2021					0							
BW250	10/1/2021					0							
0561T0196	10/6/2021	Clear	None	Clear	No	0.01	7.4	19	0	0	0	0.2	0.25
0561T0547	10/6/2021					0							
0660T0589	10/6/2021	Clear	None	Clear	No	0.01	7.5	14	0	0	0	0.6	0.25
0472T0185	10/6/2021					0							
BW87	10/6/2021					0							
BW100	10/6/2021					0							
BW174	10/6/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
BW175	10/6/2021					0							
BW191	10/6/2021					0							
BW192	10/6/2021					0							
BW193	10/6/2021					0							
0660T0822	10/6/2021					0							
0660T0820	10/6/2021					0							
0316T0391	10/6/2021					0							
0316T0266	10/6/2021					0							
0049T0389	10/6/2021	Clear	None	Clear	No	N/M							
0049T0510	10/6/2021												
0080T0093	10/6/2021												
0080T0095	10/6/2021												
0049T0379	10/6/2021												
BW73	10/6/2021					0							
0561T0560	10/6/2021					0							
0561T0547	10/6/2021					0							
0563T0305	10/6/2021					0							
0563T0301	10/6/2021					0							
OL31	10/8/2021												
OL34	10/8/2021												
OL111	10/8/2021												
OL148	10/8/2021												
0186T0378	10/8/2021	Cloudy	Other			2	6				1	0	0.25
SC340	10/11/2021					0							
SC180	10/18/2021												
SC182	10/18/2021												
BW259	10/19/2021					0							
BW260	10/19/2021					0							
0024T0332	10/19/2021												
AC36	10/19/2021					0							
AC37	10/19/2021	Clear	None	Clear	No	N/M	7.5	18	0	0	0	0.4	0.25
AC99	10/19/2021					0							
AC113	10/19/2021	Clear	None	Clear	No	N/M	7.3	18	0	0	0	0.3	0.25
AC115	10/19/2021					0							
BW299	10/19/2021					0							
0546T0166	10/19/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0546T0013	10/19/2021					0							
0546T0022	10/19/2021					0							
0546T0116	10/19/2021					0							
0546T0130	10/19/2021					0							
0459T0149	10/19/2021					0							
0546T0336	10/19/2021					0							
0320T0312	10/20/2021					0							
0024T0001	10/20/2021												
BW68	10/20/2021					0							
0046T0439	10/20/2021												
SC375	10/20/2021												
0046T1093	10/20/2021												
0255T0208	10/20/2021					0							
0255T0205	10/20/2021					0							
0046T1378	10/20/2021												
0068T0009	10/21/2021												
0068T0587	10/21/2021												
SC236	10/21/2021												
0068T0586	10/21/2021												
0068T0841	10/21/2021												
SC376	10/21/2021												
0493T0045	11/1/2021					0							
BW234	11/1/2021					0							
0493T0409	11/1/2021					0							
BW90	11/4/2021					0							
0317T0181	11/4/2021					0							
0316T0260	11/4/2021					0							
0315T0623	11/4/2021					0							
0317T0167	11/4/2021					0							
0317T0681	11/4/2021					0							
BW300	11/5/2021	Clear	None	Clear	No	1	7			0	0	0.1	
0316T0314	11/5/2021					0							
0316T0308	11/5/2021					0							
0316T0258	11/5/2021					0							
	11/5/2021					0							
1236T0240	11/5/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
0371T0328	11/8/2021	Clear	None	Clear	No	0.01	7.4	14	0	0	0	0.4	0.25
OL97	11/8/2021					0							
0371T0322	11/8/2021					0							
OL186	11/8/2021					0							
0371T0246	11/8/2021					0							
AC69	11/9/2021					0							
AC48	11/9/2021					0							
AC50	11/9/2021					0							
AC57	11/9/2021					0							
AC58	11/9/2021					0							
0193T0416	11/30/2021					0							
BW14	11/30/2021					0							
BW15	11/30/2021					0							
WC15	11/30/2021					0							
WC16	11/30/2021					0							
WC17	11/30/2021					0							
WC18	11/30/2021					0							
WC19	11/30/2021					0							
WC20	11/30/2021					0							
WC21	11/30/2021					0							
WC22	11/30/2021					0							
WC23	11/30/2021					0							
BW120	11/30/2021					0							
0252T0565	11/30/2021					0							
WC2	11/30/2021					0							
BW76	11/30/2021					0							
SC14	12/1/2021					0							
0101T0192	12/1/2021					0							
AC68	12/1/2021					0							
SC255	12/1/2021					0							
SC173	12/1/2021					0							
AC55	12/1/2021					0							
AC56	12/1/2021					0							
0101T0393	12/1/2021					0							
SC359	12/1/2021					0							
SC360	12/1/2021					0							

NODEID	DATE	COLOR	ODOR	TURBIDITY	OIL SHEEN	FLOW	pH	TEMP	CU	PHENOLS	Cl2	NH3	DET
UNITS						cfs		C°	mg/L	mg/L	mg/L	mg/L	mg/L
LIMITS							**6.5-9.0**		**0.1**	**1.5**	**1.0**	**2.5**	**1.0**
SC361	12/1/2021					0							
SC365	12/1/2021					0							
SC366	12/1/2021					0							
SC367	12/1/2021					0							
0495T0051	12/1/2021					0							
0411T0007	12/1/2021					0							
0495T0360	12/1/2021					0							
0569T0167	12/14/2021	Clear	None	Clear	No	0.03			0	0	0		0.25
0569T0189	12/14/2021	Clear	None	Clear	No	0.13	7.5	N/M	0	0	0	0.4	0
0569T0177	12/14/2021					0							
BW348	12/14/2021	Clear	None	Clear	No	N/M	7		0	0	0	0.4	0.25
BW349	12/14/2021					0							
BW351	12/14/2021					0							
BW352	12/14/2021					0							
BW353	12/14/2021					0							
BW369	12/14/2021					0							
BW370	12/14/2021					0							
BW371	12/14/2021					0							
BW372	12/14/2021					0							
BW373	12/14/2021					0							

2021 ILLICIT DISCHARGE INVESTIGATION SUMMARY

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
1/11/2021	Team Fishel 1600 Walcutt Rd Columbus, OH	Team Fishel saw cut the road and sidewalks, as well as dug on the West side of Wilson Avenue going across East Livingston Avenue without drain covers/bags.	I called their office and talked with the Supervisor for this project, Ryan Sands, who said he said he would meet me on site. Ryan said he will inform his crew to put bags over the drains.
1/26/2021	Unknown	I received a call about paint dumping. I found paint on the inlet, the driveway, and sidewalk to the front door of this address.	I spoke with the resident about dumping paint into the storm inlet. The resident denied knowing anything about dumping. I advised resident to make sure this does not continue to happen. The paint appeared to be old and dry. Nothing to clean up at this time.
2/2/2021	Artan Express 5611 Nashtral Columbus, OH 43206	Fuel spilled to a private parking lot from a semi-truck fire. Hazmat 4 (CFD) diked area with oil dry to keep it out of the private storm.	World Towing did truck removal and cleaning of parking lot. The spill stayed within the private property.
2/23/2021	Rick Rasberg / Galaxy Metals 1559 McKinley Ave Columbus, OH 43222	Large fire at facility causing runoff from firefighting activities to drain into our MS4.	I followed up on 02/24/2021. Most of the firefighting water stayed on site and leached into ground.
2/24/2021	Millennium INC. 5395 Cogswell Road Wayne, MI 48184	One of Millennium Inc.'s trucks leaked oil onto the grass. The oil ran into the roadway and curb line.	I had the crew clean the grass area and roadway to the curb inlet. It does not appear that the oil made it into the storm drain and I checked the outfalls.
3/3/2021	Buffalo Biodiesel INC 225 Sawyer Avenue Tonawanda, New York 14150	Abdulkadir Elmi (store owner/manager) said Buffalo Biodiesel dropped off this broken and leaking dumpster without permission. He has been asking for this dumpster to be removed for about a year.	I left a message for Buffalo Biodiesel to call me back. I let them know that they have a dumpster leaking into a storm drain. I cleaned the spill with oil dry. Dumpster was removed 03/18/2021.
3/5/2021	Builders Trash Service 1575 Harmon Avenue Columbus, OH 43223	Mud tracked onto Harmon Avenue from Builders Trash Service. The location is a waste transfer company with a dirt lot. When the lot is wet, the trucks coming out are tracking mud onto the street.	Mike Brown, manager of Builders Trash Services, said he will try to keep the mud off of Harmon Avenue. He said his sweeper was broken, but he will get it back up and running ASAP.

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
3/8/2021	Unknown	The D.O. in the pond was depleted to a low level by the ice and snow cover. When the warmer weather came along, five minnows & one larger fish were found floating in the water or on the bank.	Weather related. No action needed.
3/11/2021	Ohio Soil Recyclers 201 Integrity Dr. Columbus, OH 43209	I received a complaint that Ohio Soil Recyclers had soil stockpiles without silt fence or a buffer strip, which caused soil to go into Alum Creek. We waited for snow and weather to break to see condition of area.	I visited the stream bank along the property and grass buffer and proper stabilization was being used. No evidence of erosion getting into Alum Creek.
3/11/2021	N/A	Iron bacteria infiltrating thru joints of storm sewer and water quality devices.	This is naturally occurring. No illicit discharge found.
3/11/2021	Jatinder Bhangu / All Trucks 3305 South Blvd. Columbus, OH 43204	Releasing of fines into state waters from crushed concrete used for the new construction project.	I gave our findings to O.E.P.A. and it will be forwarded to Surface Water. The pH has been running within the acceptable range since 04/09/2021. We did notice a spike in pH to 10 on 04/29/2021. We let O.E.P.A. know about our findings on 04/29/2021.
3/15/2021	Lauren Binkley / Patriarch Holdings 870 Parsons Ave Columbus, OH 43206	A broken service lateral caused sewage to get into sump and pumping to the curb. A dye test confirmed on 04/15/2021. The discharge goes to a combination sewer.	The Health Department gave orders to fix on 04/15/2021. Repairs complete on 04/22/2021.
3/19/2021	Brian Jackson (renter) & Aaron Short (homeowner / landlord) 3314 Draycott Court Columbus, OH	Brian Jackson (the renter) had water in his basement and pumped it to the back yard. I could not prove that it made it to the MS4 due to the muddy water on the street.	I let Brian Jackson know that he cannot pump water to the street. I also gave him handouts.
3/19/2021	Brinks INC 1362 Essex Ave Columbus, OH 43211	Brink's truck #012042 had an oil leak last fall. They have since disposed of the truck, but I did find that truck #132012 has a small oil leak. This truck was just put there a few days ago.	Dave will clean up the area with the motor oil in the parking lot under truck #132012 with oil dry. He has this truck scheduled for repair.
3/23/2021	John P. Sohner 201 Letchworth Avenue Columbus, OH 43204	Complaint received for sump pump draining soapy water and sewer water into the street.	No discharge was found. The street was dry with no signs of sewer or soap in the street.

Date Reported	Name / Company Address	Cause	Resolution
3/24/2021	N/A	Received a call from Construction Supervisor 1 about discolored water in creek at this location.	Field sample test was within all parameters and limits. Discoloration may be remnants of a previous dye test.
3/25/2021	Shelly and Sands 1591 Harmon Avenue Columbus, OH 43223	Concrete Cutting & Breaking Co. was sawing the road for Shelly and Sands. Some of the storm catch basins did not have Dandy Bags on them, two of which were to be removed and one was still hooked to the main.	Scott Bradbury, Project Foreman for Shelley and Sands, put Dandy Bags on the inlets and cleaned the drains and curb line.
3/27/2021	N/A	I received a call about a sump pump running sewage out to the street.	A field test showed water was within parameters and limits. The smell seems to be coming from a large decomposing rat in the middle of the street. Refer to service request 2105474.
3/30/2021	N/A	Ben Harriff (EPA) requested assistance with a cleanup of mineral oil from electric transformer.	ERC completed the cleanup.
3/30/2021	Unknown	I received a call from Chris Holmes (EPA) regarding a man walking on 17th St. between Gates St. & Hanford St. dumping a gas can in the roadway.	I found a couple larger spots of what appeared to be very old motor oil mixed with water and several small drops. It looked like it had been there for quite a while. No raw product and nothing recoverable. Reported back to EPA with findings.
3/31/2021	Barbra Fredrick 920 Carpenter St. Columbus, OH 43206	Received a complaint that sump pump discharge at above address was killing grass at discharge point. The discharge is staying on the property.	Talked to Barbra Fredrick's son, Adrian Fredrick, about the discharge to the yard. Adrian Fredrick said he would take care of it. I followed up on 04/07/2021 and no discharge was found to the grass at this time.
4/2/2021	N/A	Received a report that someone at 50 East Kingston Avenue had been pumping something to the street at the front of the site.	No pumping or signs of pumping found when checked.
4/5/2021	Messer Construction 3705 Business Park Drive Columbus, Ohio 43204	The crew on the job site was power washing the sidewalk and entrance of the building with a soy based cleaner. There was not a BMP in place to stop the process water from reaching the city MS4 curb and inlet.	I had the employee stop power washing in order to stop the process water draining to the MS4. Issued City code 1145.86.

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
4/6/2021	Super Star Dyala 2899 Walcutt Road Hilliard, Ohio 43026	Call in from WAM SR#2106121 for complaint of erosion surrounding a storm inlet.	No illicit discharge found.
4/8/2021	Spencer Miniely / Yenkin Majestic 1920 Leonard Ave Columbus, OH 43219	Explosion at facility causing a potluck of firefighting foam, water, and solvent runoff from facility to our MS4.	Assisted Ohio E.P.A. and contractor (Hepaco) in tracing outfall and coordinating containment and clean-up activities.
4/9/2021	David Mercier 1044 Ashburton Rd South Columbus, OH	A car parked on street was leaking oil.	I put down oil dry and placed a door hanger on the house. The tenant said he owned the leaking car. I rechecked 04/12/2021 and swept up oil dry.
4/9/2021	Columbia Gas 601 Mannor Park Drive Columbus, OH 43228	A crew (RLA) was digging & boring next to the road & curb line without Dandy Bags on the storm drains. There was dirt in the curb line. Columbia Gas is overseeing the work being done by RLA.	Matthew Aliff will see that Dandy Bags are put on the catch basins or given to RLA to put on. RLA crew will put bags on the drains. Crew cleaned the dirt out of the curb line. I also asked C.O.C. street sweepers to come out and sweep up the bark that was in the street.
4/9/2021	Conie Construction 1340 Windsor Ave Columbus, OH 43211	Conie Construction was replacing a hydrant for the city of Columbus without a BMP in place for the storm drains and were pumping sediment-laden water without a filter bag on the hose. Muddy water was running down the curb line into the storm drain.	Bob T. and crew will clean the curb and put dandy bags on the storm drains. The crew put a filter bag on the hose after I arrived. Bob Terry admits to pumping without a filter on the hose or storm drains.
4/12/2021	City of Columbus Division of Water 910 Dublin Rd Columbus, OH	It appears that the hydrant is leaking subsurface and causing water to go to the footer drain at 2010 Swansford. This causes the property's sump pump to run continuously and discharge through pipe to structure at back of property.	I turned findings over to leak detection (SR# 2106508).
4/13/2021	Los Guachos 7370 Sawmill Road Columbus, OH	Poor housekeeping of used grease bin. The bin lid was left open and I found grease on the top and side of the bin, as well as on the ground.	I had the manager have the tank emptied and ground cleaned up. I informed the manager that they were in violation of City Code 1145.86. I rechecked on 4/14/21 and the area had been cleaned.
4/13/2021	Zaks Enterprises INC 5638 Weston Trail Drive Hilliard, OH 43026	There was an outside water leak going to the sump pump.	I called leak detection to have them look into it. I did not find any signs of a leak in the basement.

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
4/14/2021	N/A	Mike McCloud called to get a mud puddle tested to see if any pollutants could be found.	No pollutants found.
4/16/2021	Tree King	A truck spilled hydraulic oil in the parking lot into a private inlet.	Mr. Frazer had the area cleaned and the valve to the inlet had been closed. Everything was cleaned up when checked.
4/21/2021	Michael Rao / Servpro 7440 Pingue Dr Worthington, Oh 43085	Servpro was draining one of their service trucks over a private inlet. Company was caught on video. The Servpro Office Manager stated that the company was working on a drain back-up at the Korean Market that day.	I checked the inlet on 04/21/2021 and material had been flushed away by a rain/snow event. I contacted the Servpro Office Manager and told him that it is a violation of city code 1145.86.
4/24/2021	Dan Cramer / Division of Power 3500 Indianola Ave Columbus, OH 43214	A car accident knocked down the utility pole causing the transformer to break and white mineral oil to get into our MS4.	E.R.C. was already on site taking care of clean-up when I arrived. The outfall was boomed and cleanup and containment was in process. Transformer was being replaced.
4/27/2021	Cazuelas Cantina 2321 North High Street Columbus, OH	An employee dumped fryer oil into a full F.O.G dumpster multiple times after it was already full. This resulted in the dumpster spilling over and running down the alley into the curb line along W Oakland Ave. Grease was also found in the nearest catch basin.	I called ERC to clean up the spilled grease. Nate from ERC power washed and recovered the oil from the road and MS4. ERC also cleaned the dumpster area and emptied 60 gallons from the F.O.G. dumpster so it will not continue to leak. I spoke to Manik at Buffalo Biodiesel INC and he said he will have someone be there to pick up the oil by end of day Thursday 4/29/21.
4/27/2021	Unknown	Christina Carpenter called to report the presence of what looks like Styrofoam or plastic pieces of material floating in Big Walnut Creek. She mentioned typically seeing it in the evenings at the same each year.	Ariel & I went to the area listed in the email on the Upper Big Walnut Creek. We did not see a lot of Styrofoam floating in the river. However, we did find one small piece along the bank like that matched what Christina described to us on the phone. Bob Lamb (COC Stormwater Investigator) followed-up on this on 04/28/2021: I do notice a lot of invasive Bradford Pear trees along the stream bank upstream of where the complaint is from. The complaint said it happens the same time of year, so it might be the shedding of blooms from the trees.

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
5/3/2021	Travis Langdon / MGM Management 485 Metro Place South Suite 270 Dublin, OH 43017	Salt piles behind the strip mall were not stored and covered properly, resulting in the salt running down into the MS4 during a rain event.	I spoke to Travis at MGM Management and he said he will get it covered ASAP. Travis also said he has containers coming on 5/14/2021 to put the salt in and store it until next year. I called Travis on 5/4/2021 8:45am and he said he has the salt piles covered and put bricks on the tarp to keep it from blowing away in the wind. I followed up on 5/5/2021 and the salts pile were covered. I followed up on 6-10-21 and the salt was put in containers.
5/4/2021	AA Trans LLC 11949 Tramway Dr. Cincinnati, Oh 45241	Truck crash caused fuel to get into O.D.O.T. storm drain. Fuel was collected at pump station at 560 W Goodale St.	Capital Towing took care of road cleanup. ERC recovered fuel from pump station.
5/5/2021	Midas / Josh Adams 3263 W Broad St Columbus ,OH 43204	A dumpster had water in it and was leaking out of the bottom seam. Midas' used oil dry wasn't properly disposed of and was discarded into dumpster and leaking out with water.	The manager was responsive to clean-up. I explained city code 1145.86. District manager called Rumpke to replace the dumpster. The manager will talk to the employees about proper disposal of used oil dry.
5/10/2021	N/A	We were told by adjacent property owner that resident at 1383 Cutter Court Columbus, OH 43235 has been throwing their dog's excrement into the stream behind their house for some time.	No problem or dog excrement was found in or around the creek. No answer at the door. I left K.N.O.W., city code 1145.86, and the Shore Line Creekside No Dumping paperwork.
5/11/2021	All City Wrecking 1441 Joyce Ave, Columbus, OH 43219	OEPA sent an email to the C.O.C. asking us to check this site. The email stated that there was oil sheen in the storm sewer leaving All City Wrecking.	Matthew Claypool, Bob Lamb, & Brad Shook from pretreatment took a sample for hydrocarbons at manhole 2303, from pipe 2330 which comes from the oil water separator. We did not see any sheen on the water in the sewers at the time we were there. Bob and Brad talked with Paul Baker and Brad asked for the cleaning records of the oil water separator.
5/11/2021	Peter Mathewson 2009 Floral Avenue Columbus, OH	Tenant at 2009 Floral Avenue saw landlord drop paint in front of address and spill the can without cleaning it up.	I had Power Cleaning bring out vactor to clean the area of paint.

Date Reported	Name / Company Address	Cause	Resolution
5/12/2021	N/A	Received complaint that someone was potentially throwing trash in a storm drain and also appeared to be an orange cone in the inlet.	Nothing in inlet at Ellsworth and Deshler. No orange cone found.
5/12/2021	Team Fishel / Columbus Fiber Net (Team Fishel Owns C.F.N.) 1600 Walcutt Rd Columbus, OH 43228	Team Fishel crew was pumping sediment-laden water from a vault to the curb without a filter bag on pump or over catch basin.	The crew stopped pumping from the vault. They did not have a filter bag to put on the pump, but stated that they will for future vault dewatering when sediment is present.
5/13/2021	Strawser Construction INC, Kenny Cox 1595 Frank Road Columbus, Ohio	One of the trucks in the back lot of Strawser Construction INC had a leaking fuel tank.	Columbus Fire had trenched and damned multiple areas that stopped the fuel from getting to the Scioto Big Run creek. After checking to make sure all fuel was stopped from going to the creek, the source was found in the back lot of Strawser where fuel was getting into the MS4. I made a dam with oil dry to stop any more of the fuel from getting into the MS4 until Strawser was able to clean it up.
5/14/2021	The Rooter works / Tim Longnecker 6665 Huntly Road Columbus, OH 43229	Rooter works was cleaning the gutter drains at 153 Sanctuary Court and pushing dirt into the city MS4 (curb line).	I had them stop and informed Tim Longnecker of the city code 1145.86. I also had them start clean-up efforts. Due to them not having any type of BMPs to prevent debris from going any further down the MS4, I placed a blue boom at the inlet.
5/17/2021	N/A	Received a complaint of a sheen in sump pump pit and discharge at 743 Melrose Ave. I could not find any signs of spilled gasoline in the area. There was a slight gas smell in the basement.	Merlinna Thompson will clean the sump pump area and see if the smell/sheen comes back. The water in the sump pump pit tested fine and I did not observe a sheen. The curb line was not wet and Merlinna says she is not sure where the sump pump drains out to (it was not running when I was there).
5/18/2021	All American Masonry, Robert Daniels 400 North Eureka Avenue Columbus, OH 43204	The laborer on the job had cleaned tools and mortar pan and the watered down mortar drained through the parking lot to a private inlet.	All American Masonry had Porta Clean come out to clean the area.
5/19/2021	N/A	I received a call about an abandoned pick-up truck license #HXH9498 leaking oil on the street.	No illicit discharge found at address.

Date Reported	Name / Company Address	Cause	Resolution
5/19/2021	City of Columbus, Division of Refuse Collection / Diego Debonis	Max Faulkner called about trash dried on the roadway and was concerned it would wash down drains when it rained. I was not able to find the dried trash in the roadway on 5/19/2021. I received another call on 5/26/2021 from Mr. Faulkner about the issue occurring again and found trash liquid on ground at the on the roadway near the address.	ERC was called out by the Division of Refuse Collection to clean the area on 5/26/2021 and 6/10/2021. Diego Debonis also informed me that the truck that caused the issue is in the shop to repair the leak.
5/19/2021	Fleetwash INC. / Keagen Hartsock 5526 West Raymond St. Indianapolis, IN 46241	The Fleetwash crew was power washing the Marathon gas station and cleaner/degreaser mixed with water drained off-site and into the MS4 (curb line and inlet). No BMPs were used to contain the power washing runoff.	I instructed Fleetwash to stop power washing and clean the area. I placed a white boom at the curb inlet 0038T0642 and inside structure 0038T1340 to stop drainage from going further downstream in the storm sewer. The Fleetwash crew placed foam socks at the entrance of the gas station to stop any additional runoff from getting into the MS4. The crew cleaned the cleaner/degreaser/water mix out of the curb line and vacuumed out the storm sewer pipes at two structures (0038T0642 & 0038T1340).
5/20/2021	N/A	A Ford Ranger was leaking power steering fluid under a carport. It stained the asphalt, but did not reach any drains. The stain was contained under roof.	I placed 4 oil pads under truck. Storm sewers are private. No violation.
5/24/2021	Producers Services Corporation - Brent McKay 109 Graham Street Zanesville, OH 43201	Trevor Irwin from Ohio EPA called for help with a semi-truck tank leaking diesel fuel in the parking lot. None of the fuel made it to the private inlet or any MS4.	Producers Services Corporation had their people out to do clean up.
5/25/2021	Unknown	Complaints was called out for SR#2108996 and when they arrived oil was on the top of the inlet grate. Dan Nagy was the responder to the SR and called storm water.	After going out and seeing the oil, I had Power Cleaning vactor and clean the grate, as well as jet the storm line 500 feet to the west following the flow of the line to clean all the cooking oil out.

Date Reported	Name / Company Address	Cause	Resolution
5/27/2021	N/A	Mr. Gomez called stating that there appeared to be an oil sheen collecting in the corner of a pond behind his condo.	New roofs for 80 condo units have been put on in the past week. The first rain on 05/26/2021 caused residual hydrocarbon release from the new roofs into the private pond. No violation and minimal sheen.
5/27/2021	T. Marzetti Company / Erine Price 1709 Frank Rd Columbus, OH 43223	The pit in the main kitchen area overflowed due to a pump failure and the overflow being clogged. This happened about a week before we received the call to respond, on or around 5/20/21.	T. Marzetti Company contained most of the spill in the grass area and blocked off the nearby inlet. They had Chuck's Septic Tank Sewer & Drain Cleaning Inc. come out to clean the catch basin and the kitchen drain.
6/1/2021	N/A	Robert Pancoast owner at 2435 Shroton Court emailed about concern with ground water in curb line from 2443 Shroton Court.	I tested the ground water at 2443 Shroton Court and nothing was found in the water.
6/2/2021	Randall’s Backyards & More 273 South Chase Avenue Apartment B Columbus, OH 43204	Randall had stone and dirt piled in the roadway and the rain washed it down to the catch basin. It does not appear that the stone went into the catch basin.	Randall's crew will clean the curb line from 151 Village Drive to the catch basin.
6/2/2021	Unknown	The sewer line under trailer in Lot 59 was plugged up and caused sewage to overflow to the surrounding area.	Waterworks crew cleaned up area and unplugged the private sewer line. The sewage did not make it to the COC MS4.
6/3/2021	Chili's / Shawn Collis 1170 Gemini Place Columbus, OH 43240	Dave Paquette called in a grease spill behind the Chili's parking lot at 1170 Gemini Place. The grease trap's cover, located near the dumpsters, was clogged causing grease to flow into the parking lot.	The manager Shawn Collis uncovered and cleaned the top of the drain and cleaned the area of the parking lot that had been affected.
6/3/2021	BrightView Landscape Services / Alan Wolanin 3001 Innis Road Columbus, OH 43204	Gregory Sanders (Ohio E.P.A.) forwarded on a complaint of salt runoff from a salt stock pile and dead plant material at 3001 Innis Road.	There was no problem found with runoff from the salt piles located at the south side of the property at the time of the investigation. There is not an illicit discharge to the city MS4 since there are not any storm sewers in the area. Any runoff on the property stays on site and ponds around the filled in pond area.

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
6/3/2021	McDaniel's Construction Corporation / Kyle Merriman 1069 Woodland Avenue Columbus, OH 43219	McDaniel's Construction Corporation is working as a subcontractor for Turner Construction Co. and was tracking mud onto East Livingston Avenue from the construction site.	Kyle Merriman ordered two loads of # 2 limestone to prevent vehicles from tracking mud and has a street sweeper to clean the road. McDaniel's Construction Corporation will clean the road and the catch basins. Turner Construction Co. ordered a second street sweeper to help with the street clean up and will put dandy bags on the catch basins on East Livingston Avenue in front of the construction site.
6/8/2021	David Matthew 4350 Iron Mountain Road Arnold, MO 63010	Columbus fire called in a wreck to S.M.O.C. Mike Link called Stormwater to report the wreck and fuel spill on East 5th Avenue. The fuel was in the curb line from Peters Avenue West to the vault 50 feet east of Lexington Avenue.	E.R.C started the cleanup, then Hepaco was called by the trucking company to finish the cleanup. Oil dry was used on the road and curb line. The vault was pumped into tanks to remove the fuel.
6/8/2021	Festival Partners LLC 20E Hubbard Ave Columbus, OH 43215	The Health Department forwarded a housekeeping complaint about outdoor grease accumulation on concrete and around private inlet.	This drains to OSU MS4 and is in Upper Arlington. I sent my findings to Upper Arlington Code Enforcement (Tom Paisley). Mr. Paisley said he would address the housekeeping issues.
6/8/2021	The Avalon / Mahogany McKinney 205 N 5th St Columbus, OH 43215	The staff at The Avalon spilled fryer oil outside the back door into the alley. The bar staff was also taking the old fryer oil out to the trash dumpster in plastic bags, which was leaking and adding to the oil getting into the alley.	Matthew Claypool put out 2 bags of loose absorbent and 1 bag of oil dry. Bob Lamb put out 1 bag of loose absorbent. The Avalon staff will stop putting plastic bags of oil in the trash dumpster. Mahogany called ERC to clean up the spill area. Waste Management will change out the dumpster.

Date Reported	Name / Company Address	Cause	Resolution
6/10/2021	Amin Ahmadi 1959 Fishinger Road Upper Arlington, OH 43221	A broken sanitary sewer line was leaking into the sump pump and it was being pumped out to the street. The owner put the sump pump in the basement because it was flooding.	I tested the sump drain water and it was very high in ammonia and detergents, as well as dark gray and smelled like sewage. I asked Arthur Grashel (COC SMOC) to put green dye in the toilet and flushed it and I confirmed the dyed sanitary wastewater made it to the sump drain that was being pumped out to the street. Parisa Ahmadi (wife of owner) to call Roto-Rooter first thing in the morning on 6/11/21 to have the sewer line repaired. C.O.C power cleaning cleaned up the curb and sewers. I followed up on 6/11/2021 and the sewer line was being repaired and the owner turned the sump pump off.
6/10/2021	Cake Walk Indian Restaurant and Bakery / Hamsa Ray 6642 Sawmill Road Columbus, OH	There was bad housekeeping in and around the oil & grease dumpster, which allowed the oil to spill out of the dumpster and onto the ground. There was staining heading to the catch basin in front of the dumpster.	The staff at Cake Walk will clean up the area. The catch basin does not look like there is any oil in it at this time.
6/11/2021	Amalgamated Holdings LLC 620 Alum Creek Drive Columbus, OH 43205	A blocked service line caused sewage in the lower level of the building and the owner pumped the sewage to the street.	I had the people at the address stop pumping. I also had S.M.O.C clean up the area and jet the storm lines to clean out any sewage.
6/11/2021	Jred / Justin Duro Jr. 5907 Privilege Dr. Hilliard, Ohio 43026	A Jred employee was washing the COTA bus stop area with a power washer with sanitizer added to the water. The employee had just started washing so there was very little water in the curb line.	Jred has a contract with COTA to wash benches and bus stops. I contacted Beth Cremeens (COTA Facilities Manager). I provided Beth with the KNOW card, power washing sheets, and the city code 1145.86. Ariel Pinson Engineering Associate III C.O.C. contacted Justin Duro Jr.
6/11/2021	BrightView Landscape Services 2240 Harper Road Columbus, OH	A report was made to the Ohio EPA of salt leaching into a storm drain.	No problem found. All salt piles are covered with a roofed structure and tarps. The salt is stored over 1,000 feet from any storm inlets.
6/11/2021	B & D Concrete / Creg Roosa 12897 National Rd Etna, OH 43062	Tracking from a truck hauling dirt from a job site at 1507 Franklin Avenue. Mud was tracked down alley behind address to Miller Ave and Main St.	B & D Concrete will sweep the road on 6/11/21. They said they were loading the last truck when I arrived. Creg Roosa called me to confirm they cleaned the road and alley down to Main St. I drove by on 6/14/2021 and observed that it was cleaned.

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
6/14/2021	Larry Stevens 4247 Tarben Woods Drive Columbus, Ohio	Homeowner built a fire pit over top of an inlet in backyard of home.	I had the homeowner remove the fire pit and all ashes from the inlet.
6/23/2021	Tasty Hands / Ismael Barry 1648 East Dublin Granville Road Columbus, OH	Tasty Hands' grease interceptor overflowed due to being full.	I had the manager call a cleanup crew to have the grease interceptor pumped and to stop more grease from overflowing. I also had the black top area and inlet cleaned up, as well as jetted the private storm line.
6/28/2021	Unknown	Call came from O.E.P.A. about a leaking vehicle in front of 1280 Medford. No vehicle was there, but some staining and oil was on the street and curb line.	I cleaned the area with oil absorbent and disposed of properly. I put door hangers up in the area about the oil discharge.
6/28/2021	Brewer-Garrett / Eric Gilliland 6037 Frantz Road Suite 105 Dublin, Ohio 43017	R.G. Smith Company was moving a fuel tank and cut a line that had diesel in it. This caused diesel to leak onto the site. R.G. Smith crew started to clean the area with a water hose by washing the diesel down a private drain that drains to COC sewer 0014T1235. The crew used oil dry to clean the area after American Red Cross Safety personnel stopped them from using the water. Matthew Claypool (C.O.C stormwater Investigator) checked the City Of Columbus assets for diesel fuel. Matthew found diesel by visual inspection starting in the private catch basin 0014T1358 to C.O.C structure 0014T1235. Matthew also pulled the lid to 0014T0098 but there was flow in this 30"sewer and any diesel would have been washed down and diluted. Matthew then went to the outfall and there was no signs of diesel there.	American Red Cross called ERC to clean the COC storm sewers and parking lot area. I checked the outfall area and did not see any signs of diesel in Alum Creek. American Red Cross Facility Lead, Bill Taylor, observed and has video of the R.G. Smith crew washing the diesel down the drain with a water hose. Eric Gilliland of Brewer-Garrett, General Contractor, also observed R.G. Smith washing the area with water after the spill.
6/29/2021	City Of Columbus Water Department	City water leak caused sediment to cloud water in Overbrook stream.	Water Department fixed leak on 6-30-2021.

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
6/29/2021	Shelly and Sands / Mike Wiseman 1515 Harmon Avenue Columbus, OH 43216	Shelly and Sands had set up a concrete washout over a storm drain (0305T0781) that was not covered. The Anderson Concrete truck driver, Clark Holsinger (truck 603), was washing out in this area at time of investigation. There was concrete with wash water accumulated in the area and curb line from previous washings and draining into the nearby storm drain.	Shelly and Sands had a vac truck remove the concrete out of the storm drain and cleaned the road. The concrete washout was moved to a grassy area away from nearby storm drains. Based on instruction from city inspector Chase Jameson, Shelly and Sands will be replacing the catch basin and 12" pipe as it was falling apart from old age and the road was undermined around the catch basin. The undermined area was not believed to be from the concrete spill. I checked structure 0775 and confirmed concrete did not make it to this structure.
6/30/2021	N/A	Joyce Gross called in about a smell of diesel fuel in creek in rear of 777 Maclam Drive.	No smell or sign of spill found when I checked the area. The rain had the creek running at such a pace, anything that may have been in the creek had moved on.
6/30/2021	Justin Shim / Saraga Market 1265 Morse Rd Columbus, Oh 43229	Sanitary upflow at store's cleanout running into private inlet that goes to our MS4. Rain event flushed gray water through our MS4.	I talked to Mr. Shim when I arrived. He called Discount Drains to take care of the upflow and they were onsite when I left. I followed up on 07/01/2021 and the upflow had stopped.
7/1/2021	The Stonehenge Company / Bryan Priest 147 N High St Gahanna, OH 43230	The subcontractor FOOR Concrete Co. was pumping out a pit without a silt bag secured and was bypassing the silt bag in the curb inlet and discharging to our MS4.	I talked to and showed Bryan Priest the issues. He said he was going to secure the bag and clean the curb line. I also told him that the insert bag at 0549T0010 needed service because discharge was bypassing it too.
7/7/2021	Scioto Ready Mix / Todd Thompson 6214 Taylor Road South West Pataskala, OH 43062	Improper placement of B.M.P and lack of preventive maintenance on the lot of 1500 Williams Road caused concrete slurry to enter MS4.	S.M.O.C. is cleaning city owned storm lines, but private lines will still need cleaned. I spoke to Todd Thompson on 07-08-2021 and he informed me that Flowline will be out when S.M.O.C is done to clean lines.
7/8/2021	City Of Columbus Water	City water leak.	Called and reported the water leak to DOW.
7/8/2021	Kroger/ Lamaur Buck 5161 Hampsted Village Center Way New Albany, OH	Poor housekeeping around trash compactor and grease bin behind Kroger. Also, the trash compactor is leaking causing leakage to the storm system.	I spoke with the manager and explained the area around the trash compactor and grease bin, as well as the storm lines needed to be cleaned by a professional company.

Date Reported	Name / Company Address	Cause	Resolution
7/8/2021	Shelly and Sands / Lance Springs 1515 Harmon Avenue Columbus, OH	Received complaint of construction along N. Hamilton Rd. The caller stated that catch basins in the construction area were uncovered and there was dirt tracking from the construction area.	No problems found when I checked the site and all BMPs in place. All inlets and catch basins that were not covered with dandy bags were still in process of being built.
7/8/2021	Gerald Bean 818 Cherryberry Drive Columbus, OH	Truck in front of address leaking oil.	Truck is being removed.
7/9/2021	N/A	This was an air complaint that O.E.P.A. received on 06/01/2021. Complaint was that neighborhood smells like sewage during some nights.	I talked to Ms. Alvis and she said the odor occurs during rain events. It is possible that infiltration is getting into city 8" sanitary line and forcing sewer gas out of resident's exterior plumbing vents. I also noticed between 2017 and 2019 something was done to her plumbing vent on her roof, which could also be causing the odor in her home.
7/12/2021	N/A	Groundwater ponding in rear of 1715 24th Avenue has smell.	This is just ground water. No problem found.
7/13/2021	Marin Ndoja / MDN Development LLC PO BOX 1581 Westerville, OH 43086	Sump pump is pumping sewer water to the street curb line and storm drain due to a plugged sewer pipe leaking into the sump.	Tare Home Improvement was hired to repair/clean the sewer line. Elton Tare (Tare Home Improvement Owner) found roots in sewer and is repairing/cleaning today. Marin and Matt dumped green dye in the toilet to verify that the sewer was being pumped to the street and it was. SMOC cleaned the catch basin and street/curb line.
7/20/2021	Wanda Hernandez / Woodbury Garden Homes 751 Yvette Ct Columbus, Oh 43223	Pump failure at private lift station caused sewage to backup and overflow sanitary manhole and into private storm sewer.	E.C. Babbert was called to fix lift station. Repair was complete on 07/23/2021. S.M.O.C. cleaned upflow and private storm assets. Nothing made it to our MS4.
7/20/2021	N/A	Received a complaint that sewage was being pumped to the street from 465 S Harris Ave.	No pumping found when checked on multiple occasions after first report.

Date Reported	Name / Company Address	Cause	Resolution
7/21/2021	Cora Kokosing Construction Co 6245 Westerville Rd Westerville, OH 43081	Chris Holmes from the OEPA called about a report of someone dumping concrete into the river. Dan Schick (Corna Kokosing Construction Co.) said that they are cutting and breaking up the side wall on the bridge, but no concrete is falling into the Olentangy.	Dan is aware that dry or wet concrete in not allowed in the river or in the C.O.C. MS4.
7/22/2021	City Of Columbus Refuse	Hydraulic oil and trash juice from trash truck leaked from rear of 1811 Sullivant Avenue. Tracked east down alley to Townsend Avenue, then south on Townsend Avenue to Mound Street, and then East on Mound Street 100 feet.	Damned up in front of storm inlet 0022T0677 with oil dry to stop anything else from entering the inlet. City of Columbus Refuse cleaned trash juice and hydraulic oil from roadway.
7/22/2021	Jim Cox 1577 E 5th Avenue Columbus, OH 43219	Mixing mortar in the mixer sitting on the street. No BMP in place to stop slurry and sand from reaching the curb line.	I spoke with Mr. Cox about BMPs that could be used. I had him clean the area and stop until BPM could be put in place.
7/23/2021	N/A	Lynn Floyd asked us to look into an orange/ red scum on the mud in the retention basin.	Orange / red scum is iron bacteria. The SMOC crew was cleaning the mud out of the basin.
7/23/2021	City Of Columbus Refuse	Trash truck (truck #28528) was leaking trash juice on roadway every time it turned a corner.	I spoke with Chris Howard from DPS to let him know the area and truck number with the problem.
7/24/2021	Unknown	Maroon van was parked in front of address above and a tremendous amount of fuel was leaking into the curb causing a fire hazard.	I called C.P.D. non-emergency number. Fire department came out to contain the spill. Columbus police had vehicle towed under city code 2107.1. I followed up on 07/27/2021 and cleaned up oil dry fuel mixture and took material to E.R.C. for disposal.
7/27/2021	Unknown	Blue dye found in storm line going to and in the creek behind address.	Tested the water in the line and test showed no pollutants in line.
7/29/2021	Protegis Fire / Alan Walker 3486 East Dublin Granville Rd Westerville, Oh 43081	Company was cleaning smoker at Weilands Market and wash water with grease drained from the alley behind market to Division of Power parking lot.	When I arrived a rain event had already occurred and flushed grease wastewater to city curb line and inlet along Indianola Ave. I stopped and talked to Protegis on 08/03/21 and explained violation of city code 1145.86

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
8/2/2021	Condado Tacos / Christina Yanez 720 Harmon Avenue Columbus, Ohio	The area was covered with grease due to improper housekeeping.	The Manager had a professional cleaning company out to clean the area.
8/2/2021	N/A	Truck leaking oil in driveway. The oil stayed in the driveway and did not make it out to the road. No one was home to speak to about problem.	Went back out to have homeowner clean area before oil made it to the MS4.
8/3/2021	Avalon (AKA Aura / Club Priority) / Mahogany Mckinney 205 N 5th St Columbus, OH 43215	Bar, Avalon (Club Priority), staff has been letting the grease miss the 55 gallon barrel as they pour the old grease into it. It also looks like they are still putting fryer grease/oil in trash bags and it is leaking out of them. The trash bags were not put in the dumpster but just put on the ground beside them. The dumpsters were empty and the 55 gallon barrel was less than half full. Also, the dumpsters were blocking the alley and emergency fire exit to the bar. I contacted the local fire station which sent a crew over to speak to Mahogany about blocking the alley and fire exits.	Mahogany said she will review with her staff the proper way to dispose of the F.O.G. I used two (2) bags of oil dry to clean up the area. Mahogany and the Firefighters will come up with a better place to put the dumpster so it is not blocking the emergency exits. I will forward this report to Jason Westfall for a follow up to the F.O.G. program/paper work.
8/3/2021	TNT Services / Tommy Spurling 3220 Toy Rd Groveport, Ohio	Call in by OEPA. Met Tommy from TNT on site and he was power washing the condos in this area with cold water and bleach. No water was making it to the MS4, all water was being contained by the grass and flower beds.	I gave Tommy the power washing handouts and went over the info with him.
8/4/2021	Red Robin /Arylle Slaughter 1021 Gemini Place Columbus, Oh 43240	Leaking compactor leaking to the parking lot.	Compactor needs replaced. I also informed the Manager to have better housekeeping and keep area clean. On 9/16 the compactor was removed and replaced with two new dumpsters.
8/4/2021	Kroger / Melody Gay 5161 Hampsted Village Center Way New Albany, OH	Leaking trash juice from the trash compactor.	I spoke with Melody Gay from Kroger and she stated they have a cleanup crew in route and are also getting the compactor replaced 08/05/2021.

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
8/5/2021	City Division of Water 8343 Seabright Drive Powell, OH	City water break causing white clouding in stream.	The stream tested positive for chlorine. Water knows of the leak and is repairing issue.
8/7/2021	Adjei Ishimael Adjetey 810 Reynolds Ave Columbus, Oh 43201	The business owner had a fire where his business is (automotive repair shop and vehicle shipper). Oils and fluids from cars were on site. Most of the oil burned up, but Hazmat 4 stated some made it to our MS4.	The landlord (Bobby Davern / Shamrock Asphalt) already contacted Hepaco for cleaning of our street and MS4. When I arrived I deployed oil booms at outfall 0027T1596. I tested pH at 7.5 and no aquatic life seemed to be harmed. Followed up on 08/09/2021- street and MS4 is clean.
8/13/2021	N/A	A complaint was received for a neighbor changing antifreeze and allowing it to go into the street.	I found no signs of an illicit discharge when I arrived.
8/26/2021	Unknown	Diesel spilled on road. Unclear how and from what diesel was spilled.	Dustin Stoops COC helped clean up the spill. We put down 2 bags of oil dry and swept it up. No storm drain inlets in the area of the spill.
8/26/2021	AEP / Pete Harvey / Shants Mclaughlin 1333 Goodale Blvd Columbus, OH 43212	Pete Harvey and his crew were pumping muddy water out of an AEP vault. The water plugged the filter bag on the hose, so he took it off and kept pumping. There was a Dandy bag on the catch basin, but the grate was not fitted correctly and sitting sideways over the catch basin, which allowed the water to bypass the Dandy bag and drain into the catch basin.	The crew stopped pumping today and will use a vac truck to clean out the vault.
8/26/2021	Miller Pipeline / Mike Seifert 4990 Scioto Darby Rd Hilliard, OH 43026	The Miller Pipeline crew was wet sawing the roadway without containment in place.	Mike Seifert informed crew to vac the slurry up from the curb line.
9/1/2021	Scott Townsend / Custom Creations By Scott 2030 Lisle Avenue Columbus, Ohio	One of the labors had washed concrete out into the inlet.	I spoke with Scott about the concrete in the inlet and that it needed to be cleaned out no later than 09/06/2021.
9/7/2021	N/A	Report from Ohio EPA with photos of stream with what looks to be green sewer dye.	No dye found. Stream was clean and flowing.
9/22/2021	Unknown	Matt Repasky sent an email asking for someone to check out a fuel smell in the area of 87 E Columbus St.	I went to the area and did not smell or see any type of discharge.

Date Reported	Name / Company Address	Cause	Resolution
9/27/2021	Bo's Auto Sales / Howard Bodie 1722 Livingston Avenue Columbus, Ohio	The lid was left open on a barrel that holds used oil and when it rained, the oil overflowed onto the ground and tracked to the storm sewer.	No oil was left in the storm sewer, there was only staining of the ground left. I spoke with the worker and let them know the area still needed to be cleaned.
9/28/2021	City of Columbus Division of Power / Dan Cramer 3500 Indianola Ave Columbus, Oh 43214	Auto accident knocked down utility pole causing 2 transformers to spill mineral oil. The oil did make it to our MS4.	E.R.C. Nate Ulrey and his crew were in route when contacted. The oil was isolated in two inlets and before we left the site they had started the mitigation of the mineral oil.
9/28/2021	Darlene Nosack Dolly's Barking Bubbles LLC 17980 White Stone Rd Marysville, OH 43040	Darlene Nosack was washing a dog in a van and opened the drain to let the bath water run down the street. I stopped the discharge in the curb line before it made it to the drain and took pictures.	I called in SMOC to clean the soapy water from the curb line.
9/28/2021	Javier / Javier's Carpet Cleaning, LLC 4637 Belfast Dr. Columbus, OH 43227	Javier said he had a hose come off of his carpet truck that leaked soapy water onto the driveway and into the COC MS4.	Javier used water, a broom, and a shop vac to clean the soap off the drive way at 229 Green Springs Drive. Javier said he was not aware of an issue that caused the spill, but will clean it up right away if this ever would happen again. SMOC cleaned the curb line and drains.
9/28/2021	Unknown	Random dumping of cooking oil into curb inlet. No guilty party found. No dumping curb marker is on inlet.	Emailed Fred Johnson Supervisor 2 at S.M.O.C. to send a crew out to clean and vac inlet.
10/1/2021	Eric Howell / P.S.C. Metals 2205 Parsons Ave Columbus ,Oh 43207	Truck trailering scrap caught on fire. Residual fluids and firefighting foam got into State of Ohio ditch line and storm assets.	Clean up contractor was on site to remove cargo and to vac and clean the ditch line and storm assets. Material did not make it to state waters.
10/7/2021	Unknown	Citizen complaint was that someone was putting dirt into inlet 0298T0524. There was some dirt in the inlet, but also large amounts of empty cans and trash in all 4 inlets at the intersection of Beaumont & Colerain.	Labeled all inlets and had S.M.O.C. clean all inlets of trash and debris.

Date Reported	Name / Company Address	Cause	Resolution
10/8/2021	Angela Gasway / Indigo Creek Real Estate 420 Proclaim Lane Galloway, OH 43119	It appears to be some oil sheen coming into private retention pond from private storm asset 0281T0779. I could not find a point source, but there has been some new roofs and paving going on in the area the past couple of weeks. No signs of dumping.	I soft boomed outlet pipe 0281T0780 at retention pond. Aquatic life looked good and D.O. was good also. There is aeration in the pond and once sheen dissipates booms can be removed. This is all private and is contained in private system.
10/8/2021	Peabody Landscape / Dave Smith 2253 Dublin Rd Columbus, OH	Peabody Landscape was breaking up old drums/totes and one had old dye dust in it that made its way to the state waters (Roberts Millikin Ditch to Scioto River).	Ben With OEPA called in ERC to clean state waters. I called the water plant at 910 Dublin Rd to let them know of the spill upstream of the water intake, I spoke to Adam in the control room.
10/11/2021	2 Brothers Tacos / Arturo Avila 124 Fernhill Ave Columbus, OH 43228	Someone from Arturo's company 2 Brothers Tacos has been dumping FOG down the private drain (drain is mostly clogged) that drains to the city MS4. Arturo admitted to dumping FOG into the storm inlet. His food truck also looks to have FOG coming from the roof top fan and dripping onto the pavement, which he cleaned once I pointed it out.	Arturo called Chuck's Septic (CST) to clean the private drains (0026T0526 to 0026T0528). CST cleaned the drains on 10/12. SMOC cleaned the MS4 0026T0528 to 0026T0694. Jerry Bowling met CST on site for cleanup and follow-up 10/12/2021.
10/12/2021	N/A	Report of sewage in pond.	No sewage, only trash found.
10/12/2021	N/A	Report to EPA about person dumping oil in inlet.	No dumping found.
10/12/2021	Governours Square Apartments / Harold Stiffler 4695 Braddock Court Columbus, Ohio	The apartment complex's service line to the city sewer main line backed up causing upflow from the clean out next to the building.	A company will be coming in to open the service line and clean up the area. No sewage made it to our near the city MS4.
10/13/2021	Ready Set Roll Painting And More / Roy 1814 Robert Street Columbus, Ohio	Roy's truck tailgate fell down while parked in the driveway, causing everything in the back of truck to spill.	Owner will clean area.

Date Reported	Name / Company Address	Cause	Resolution
10/15/2021	Joseph Alaura P.O. Box 254 Marengo, OH 43334	The property's lateral sanitary pipe is clogged and/or broken causing sewage to back up in the basement. The property landlord put a pump in the basement of the home to pump out the raw sewage to the curb line at Elsworth Ave.	I dye tested the toilet and the dye drained to the street curb line via a hose connected to a pump in the basement of the home. I called in a crew from SMOC to televise the main city line to confirm it is not clogged and Power Cleaning to clean the curb line. The landlord moved the discharge hose from the curb line to the backyard and called contractor Turner Tradesmen LLC to repair his sewer line. Geno Twyman (Turner Tradesmen LLC, 614-900-3714) confirmed the lateral sanitary line from the property is broken before the connection point to the city's main sanitary line, so it is the property's responsibility to repair.
10/18/2021	Derrick Showell / First Step Recovery Centers 1649 Brice Rd. Reynoldsburg, OH 43068	Appears that the business has a broken sanitary lateral. Sanitary is going into the under drain of the building to the sump and being pumped out onto the curb line and sidewalk.	Mr. Showell had already called a plumber to fix the problem and would place cones and barricades on the sidewalk to keep pedestrians from walking through it.
10/21/2021	Oscar Martinez / Better Solutions Construction 3272 Framington Drive Columbus, OH 43224	The crew washed out their tools and cement truck in the curb line.	Oscar will have a crew clean the curb line from 1750 to 1770 Forest St. Brian Rice (SMOC) said he will have a power cleaning crew clean the sewers.
10/21/2021	Mike Seifert / Miller Pipeline 5000 Scioto Darby Rd Hilliard, OH 43026	The Miller Pipeline crew on site was cleaning off concrete forms in the street. I stopped to make sure they would sweep up the waste concrete and hand out KNOW CARD. The crew also started to put down topsoil and spilled it in the street and curb line. Dandy bags were not installed on either of the inlets 0035T1255 & 0035T1256. Upon further investigation, there was soil and sandy debris in the curb line and the storm sewer inlets.	The crew will clean up the concrete and soil from the street. They stated they will not let any more make it into the inlets or any further in the curb line.

Date Reported	Name / Company Address	Cause	Resolution
10/26/2021	Joy / Kvitko Properties 4308 N High St. Columbus, OH 43214	Two roof drains discharge where staining is found on the pervious pavers. The restaurant tenant seems to be keeping the used grease area clean, but I requested the property owner to extend the downspouts past the grease bins to reduce the chance of washing grease into the pavers. Pavers had hydrocarbon staining and grit from the roof during rain events. Over time it will create staining and grit deposits between the pavers.	The property manager agreed to extend the downspout past the grease bins to help eliminate possible grease discharge. Confirmed task complete on 11/02/2021.
10/27/2021	Marin Ndoja / M.D.N. Development 7718 Milford Ave Westerville, OH 43082	Appears to be a washing machine hooked up to sump pump that is discharging to the curb line. The discharge tested high detergents and ammonia. I was not able to gain access to property at time of investigation. Knocked on the door and left information at	Jeff Lyons at Columbus Public Health sent Emergency Orders to correct discharge and gain access to property. M.D.N. Development contacted Jeff Lyons and stated that repairs were made as of 11/08/2021. I drove by the property on 11/08/2021. No discharge at
10/28/2021	N/A	O.E.P.A. forwarded a complaint that the neighbor's cars were leaking oil and going into the city storm sewer.	There was some staining in the street, but no oil in the storm sewer. I placed door hangers in the neighborhood about leaking automotive fluids. The street, curb, and storm sewers are all private.
10/29/2021	James (Jim) Anderson / Dirtyblinds.com of Columbus Ohio 5230 Westerville Rd Columbus, OH 43231	Jim Anderson drained the soapy water onto the street which drained to the nearby storm inlet. Jim says the soapy water is very diluted and bio-degradable	Jim will dispose of the soapy water properly from now on.
11/2/2021	Rob Brady / Roto-Rooter 4480 Bridgeway Ave Columbus, OH 43219	Roto-Rooter was draining clean water tanks from the jetter trucks in the driveway leading to ditch behind the facility. I confirmed there were detergents in the water by testing a sample. The test returned a concentration greater than 1 ppm. Follow-up on 11/17/2021: Soapy water was draining from the driveway to the ditch behind the facility. I could not find where the soap came from, but I believe it was a tech dumping out cleaning supplies on the ramp area.	Rob Brady said he will try to figure out where the soapy water came from. He will ask the crew not to drain the trucks outside and instead have them drain to the building interior drain. Follow-up on 11/17/2021: Rob Brady said he will try again to figure out where the soapy water came from. He will ask the crew not to drain the trucks outside and instead drain to the sanitary drain inside the building.

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
11/3/2021	Timothy Gravely / Equity Creation 5545 Ketch St. Lewis Center, OH 43085	The 2728 Tudor Rd house had plumbing routed from the kitchen sink to the street curb line. Dye test confirmed on 11/02/2021.	Jeff Lyons from Columbus Public Health sent Emergency Orders to the property owner to immediately correct the issues at the property.
11/5/2021	Smith Hauling Westerville, Ohio	The unloading of a track hoe caused dirt in the road.	The company cleaned all areas by hand after given two (2) hours to do so.
11/5/2021	Polaris Fashion Place / Rick Roberts 1500 Polaris Parkway Suite 3000 Columbus, OH 43240	Trash juice (open top dumpster) and grease due to what looks to be poor housekeeping. Overflowing trash bins and disregard for cleanliness with grease bin.	I informed Rick that the storm line and area needed to be cleaned by a professional company. This has happened few times now, see report 09142021-1.
11/8/2021	Marty Weiss / Easton Town Center 160 Easton Town Center Columbus, OH	Marty had his crew hot water power washing the dumpster area (service area #3). The water with FOG and debris ran down the storm drain 0303T1217 (private inlet drains to SMOC).	Marty will collect and dispose of power washing water properly. I followed up on 11/09/2021 and Marty had cleaned and covered the inlet.
11/9/2021	Shawn Kelso 4048 Nile Avenue Columbus, OH	Shawn Kelso's truck is leaking oil on the road.	Shawn Kelso and Jerry May will move the truck out of the roadway today. Jerry Bowling drove by on Friday 11/12/2021 and the truck was removed and the street was cleaned up.
11/10/2021	House Of Japan 8701 Sancus Blvd. Columbus OH, 43240	House of Japan's older trash dumpster was leaking.	I had the owner call to get the dumpster replaced and clean the area and private storm sewer.
11/17/2021	Elford Asset Management / Jason Clark 1220 Dublin Granville Road New Albany, Ohio 43054	Power washing building and sidewalk with pressurized water only, no chemicals.	I had them stop power washing, explained city code, and gave handouts.
11/18/2021	City of Columbus Division of Water 910 Dublin Road Columbus, Ohio 43215	A water leak on Tremont Road, south of Fishinger Road. The water drained to Slyh Run and caused a gray coloring in the stream. A sign was posted for the water leak to be repaired. (Pending)	The Water Department will repair the water leak.

Date Reported	Name / Company Address	Cause	Resolution
11/18/2021	Josh Shearer / Elford 1220 Dublin Rd Columbus, OH 43215	Trucks were tracking mud from the job site into the road. The parking lot and job site driveway is in need of gravel. Chris Martinez (Site Manager) admitted that the pump from the sump inside the building had been running during the day, and the filter bag was found to not be properly secured on the end of the hose. The filter bag also had holes in it. The hose was directed to discharge to the street which would wash the mud tracked on the street to the inlets.	Josh will have the street and drains cleaned by Friday 11/19 at noon. Josh's crew unplugged the pump to stop the water from going to the street. Chris Martinez (Elford) ordered limestone for the driveway and parking lot. Follow-up 11/19/2021: Elford has started to clean the streets and put down stone in the driveway/ parking lot. Street cleaning will be finished Monday 11/22 once parked cars are cleared. The inlets will be cleaned once the street cleaning is completed. Follow up on 11/29/2021: I spoke to Randy (Site Manager) and he is going to clean the drains and road on 11/30/2021.
11/22/2021	Coca-Cola North American 2455 Watkins Rd. Columbus, OH 43207	Unexpected excess of water to wastewater system caused the wastewater to spill from the tank.	Coca-Cola North American will monitor the waste water tank more closely and make sure the rounds and safety checks are being done. None of the discharge left the site. CST was performing the cleanup. The spilled wastewater was collected and taken to Kobe for proper disposal.
11/26/2021	Karon Hamilton (truck owner) & Brenda Spaulding (land owner) 976 Kyle Avenue Columbus, OH	A white Chevy truck with temporary tags was leaking a small amount of oil onto the street. The oil did not reach the storm sewer.	The owner of the truck was not home. I spoke to the owner's roommate and left handouts. I instructed him to have the owner move the truck in driveway and/or collect the leaking oil in a pan until repaired. Follow-up 11/30/2021: The truck was moved from the street into the driveway.
11/29/2021	Unknown	An unknown party dumped grease in the inlet at the corner of Morningstar Drive & Branding Iron Drive.	I had Power Cleaning out to clean the inlet and jet the line downstream to clean all the grease out.
12/1/2021	Brian Vastano / BaseLine Communication 3101 New Haven Ave. Fort Wayne, IN 46803-2744	Brian and his crew dug up an underground pull box and some of the mud / muddy water was put in the curb line. Inlet protection was not installed on the nearby stormwater inlet.	Brian put on a Dandy bag on the storm inlet and cleaned the curb line.

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
12/2/2021	Kyle Stalder / Kokosing Construction Company, Inc. 6235 Westerville Rd Westerville, OH	Kokosing dump trucks leaving a job site were tracking mud onto Broad Street near Jefferson Avenue. The tracking of mud was greater than 1,500 feet long and there was not inlet protection on Broad Street in this area. As I was speaking with Matt Craig, a water truck arrived to flush the street of mud.	I asked the water truck driver to stop flushing the street with water and he did. I spoke to Kyle Stalder (Project Engineer) on the site who walked the site with me. Kyle will put bags on the inlets and clean the street and storm system. Kyle said they had ordered limestone for the muddy work site leading to Broad Street. He also said they ordered the water truck to wash the street, but I explained that he could not wash the mud down the storm drains. He said he understood and will not do it again. Kyle took responsibility for the tracking of mud and the washing of mud down the drains.
12/6/2021	Unknown 1018 Whitethorne Avenue Columbus, Ohio	A city sewer back up caused the address to need to pump wastewater from their basement. The discharge was routed to the front of the property and drained to the storm inlet in the yard.	The hose was moved to different location in the yard to stop the flow into the storm inlet while the city works to open the sanitary sewer.
12/10/2021	The Whiting-Turner Contracting Company 445 Hutchinson Avenue Columbus, OH 43235	Dirt was coming off of the trucks leaving this site and falling onto the roadway.	Dominic Dea had the road swept before the end of day Friday 12/10/2021.
12/10/2021	Ethan Beard / Mid-Ohio Utilities 2276 East Main Street Lancaster, OH 43130	Mid-Ohio Utilities was wet saw cutting with no BMP in place to stop discharge from going to the storm sewer.	I had the crew stop cutting and clean up the area.
12/13/2021	Mike Lynch / Complete General Construction 1221 E 5th Ave Columbus, OH 43219	The Complete General Crew was putting in a traffic light loop and saw cutting Fairwood Ave. The crew then power washed the saw cuttings/slurry towards the inlet. The inlet did have a bag in it, however the water/slurry bypassed the bag into the inlet.	The crew & Mike Lynch agreed to sweep and vac the slurry in the MS4, as well as vac the inlet and storm drains. Follow-up 12/14/2021: The crew cleaned the area
12/14/2021	WBS Lawn Service / Ben Schmidt 6751 Taylor Road Blacklick, Ohio 43004	Salt was unloaded and not covered in the parking lot in the rear of Lowe's near a storm inlet.	I had Ben from WBS Lawn Service cover the pile and clean the inlet.

Date Reported	Name / Company Address	Cause	Resolution
12/15/2021	Arbaba Keita 6645 Maple Cannon Ave Columbus, OH	Per 311 service request: Caller states there is silver Hyundai Tucson with missing plates and extensive front body damage. States vehicle is not drivable and has not moved from near this address for at least 2 weeks now. The vehicle was also reported to impound as abandoned.	I spoke to the owner of the SUV and he said he is waiting on insurance to pick up the SUV within the next day or two. There was very little oil dripping from the SUV. He said he will put an oil pan under it until it gets picked up. Follow-up 12/20/2021 (phone call): Arbaba says the SUV is scheduled to be picked up tomorrow 12/21/2021.
12/15/2021	N/A	There was no illegal dumping. The owner of 153 East 14th Avenue had a service line stoppage and had a plumber out to snake the service line. Caller thought where the plumbers were snaking from looked like someone dumping into a storm drain. The drain was connected to their sanitary service line.	There was no dumping therefore nothing to resolve.
12/15/2021	Andy Wilcox / Wilcox and Sons Landscaping P.O. Box 236 Lockbourne, OH 43137	Witness said employees were taking leaf blowers to clear the yard at the above address and putting all leaves into the open channel in the back yard that drains to our MS4. There were some leaves in the channel, but this area is the low settling point for the stream and it is lined by a canopy of trees upstream.	I talked with the co-owner of the company to tell them about our findings. Dustin Stoops also forwarded pictures we took at the property. Notified them if that was being done that this was a violation of city code 1145.86. They said they would send employees to check the channel by 12/16/21.
12/17/2021	Ca' Rita Thorpe 7528 Hemrich Drive Canal Winchester, Ohio	Ms. Thorpe was unsure of how her garbage bags ended up in the rear of 5558 Sherrick Drive. She did state her trash day was on Friday 12/17/21, but her son puts the garbage can out at the curb in the morning to be picked up by the trash truck. See Service Request #2123584.	I asked her to be more conscious and careful of where her trash ends up. She agreed to do so.
12/23/2021	Shane Warner / Preferred Living 750 Communications Parkway Suite 250 Columbus, Ohio 43214	Trucks exiting job site are tracking mud into the MS4. Contractor does not have gravel in place at the entrance/exit to prevent this. Inspector said there was no gravel available to put at entrance/exit.	Street sweeper arrived while on site to clean the street. Forwarded to sediment and erosion for inspectors to look at.

Date Reported	**Name / Company Address**	**Cause**	**Resolution**
12/24/2021	Carl Eblin / Buckeye Truck P.O. Box 23093 Columbus, OH 43223	A truck was T-boned by a non-insured motorist and ruptured the truck's fuel tank causing fuel to get into the curb line. The fuel did not reach the inlet.	Buckeye Truck was on site when I arrived and they had fuel cleaned up when I left the site.
12/28/2021	N/A	Caller reported, under service request # 2124197, that the Uhaul at Parsons Avenue and Mithoff Street had oil flowing from the parking lot onto the sidewalk.	I found no oil leaking onto the sidewalk or onto the parking lot. I talked to an employee at Uhaul and he stated someone had slipped earlier in the day and called an ambulance and it may be related.

SERVICE REQUEST REPORT

Service Request No.
2100054

2100054

Created Date: 01/04/2021 06:37 AM

WORK LOCATION

Address:1608 THAMES DR Suite: 0057
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YFLOOD - Flooding, surface water.

Problem Description: THAMES DR and Vendome . ON-LINE REQUEST. 1604 - 1608 Thames Drive the sewer in front of the houses is blocked by a thick sheet of mud not allowing the water to drain into the sewer properly. Please remove the mud and fix it so it does not continue to happen every time it rains, This is a ongoing problem that happens each time it rains really heavy. the mud from 1604 Thames slides down and covers the drain.. Then the rain backs up and a huge body of water forms under the driveways... trash cans float away... and it remains for days

Requested Date: Crew :DAVM1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SJSPARKS Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 01/04/2021 10:43:23AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Warren, Timothy Call Back: 0
Address: 1608 THAMES DR Suite:
City: COLUMBUS State: OH Zip: 43219
Work Phone: (614) 732-2707 Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2100054

2100054

Created Date: 01/04/2021 06:37 AM

CLOSEOUT INFORMATION

Start: 01/04/2021 08:11 AM Finish: 01/04/2021 09:17 AM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: THE CITY'S STORM INLET # 0057T0202 LOCATED IN FRONT OF 1608 THAMES DR WAS COVERED BY LEAVES AND OTHER DEBRIS. WE REMOVED THE DBRIS TO OPEN THE INLET. THIS PROBLEM WILL EXIST AS LONG AS THE RESIDENCES ALLOW THE LEAVES TO LIE IN THE GUTTER

Inspected By: M DAVEY S VERHAGE Date: 04-JAN-21

Signoff By:_____ Date: _____

Closed By: WALLACE, MICHAEL E Date: 11-JAN-21

SERVICE REQUEST REPORT

Service Request No.
2100517

2100517

Created Date: 01/09/2021 03:28 PM

WORK LOCATION

Address:3647 WANGO CT Suite: 0168
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: Dist. #: 168 - Caller believes that someone poured antifreeze down the storm drain in f/o this address. It was not the resident that lives at the address. The caller wished to remain anonymous.

Requested Date: Crew :JOHF1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SCOTT, MARCIA R Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 01/09/2021 06:11:58PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Call Back: N
Address:3647 WANGO CT Suite: 0168
City: State: Zip:
Work Phone: Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2100517

2100517

Created Date: 01/09/2021 03:28 PM

CLOSEOUT INFORMATION

Start: 01/09/2021 04:04 PM Finish: 01/09/2021 04:30 PM Completed: _____

Failure: YNCF Repair: _____ Further Action:YNFAN

Comments: Talked to customer and told him to stop w hat he is doing if he is dumping illegally.

Inspected By: F.Johnson Date: 09-JAN-21

Signoff By: _____ Date: _____

Closed By: JOHNSON, FRED L Date: 12-JAN-21

SPECIFICATIONS

ID: 2100131 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2100597

2100597

Created Date: 01/11/2021 09:30 AM

WORK LOCATION

Address:200 BROAD MEADOWS BLVD Suite: 0451

Cross Street:

City: State: Zip:

Service Request TypeINVESTIGATE

Problem Code: YUPFLOW - Flow from ground or structure.

Problem Description: DIST # 0451 (N). EMAIL RECEIVED:
I GOT A CALL FROM POISON CONTROL. BRUCE, WHO IS A NATURALIST WITH METRO PARKS (WASN'T THERE OFFICIALLY), WAS OUT AT RUSH RUN PARK THIS MORNING AND THERE WAS SEWAGE IN THE CREEK RUNNING TOWARDS THE OLENTANGY. HE EVIDENTLY FOUND OUT FROM A NEIGHBOR THAT THERE WAS A SEWER LINE BREAK AT INDIANOLA AND LOVEMAN. I KNOW THAT IS IN COLUMBUS BUT A RESIDENT FROM RIVERLEA WAS THE ONE TO REPORT. JUST WANTED YOU TO BE AWARE.

Requested Date: Crew :STOD2 Dept: SEWERMNT Area:SEWERS

Next Approver:

Dispatcher:SJSPARKS Call Back Ready: N

Status: CLOSED Customer Call Back: N

WO/Task No: Finished Date: 01/11/2021 12:18:51PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N

Name: Customer Call Back: N

Work Phone: Ext: Home Phone:

Company: Tax ID:

REPORTED BY

Name: RALPH R.S., NATHAN Call Back: 0

Address: Suite:

City: State: Zip:

Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2100597

2100597

Created Date: 01/11/2021 09:30 AM

CLOSEOUT INFORMATION

Start: 01/11/2021 09:40 AM Finish: 01/11/2021 10:40 AM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: NO ASSET. Searched both creeks running through Rush Run Parkland on the north side of Broad Meadow Blvd. Searched Olentangy River north of Broad Meadow Blvd. and also searched the ditch line at the rear of 200 Broad Meadow Blvd and found no evidence of sew age or any upflow . There is no contact number listed. No further w ork needed.

Inspected By: Stoops, D. Wallace, M. Date: 11-JAN-21

Signoff By:_____ Date: _____

Closed By: STOOPS, DUSTIN D. Date: 21-JAN-21

SPECIFICATIONS

ID: 2100137 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	

SERVICE REQUEST REPORT

Service Request No.
2100597

2100597

Created Date: 01/11/2021 09:30 AM

SPECIFICATIONS

ID: 2100137 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
130	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2101564

2101564

Created Date: 01/27/2021 09:43 AM

WORK LOCATION

Address:1268 ELDERWOOD AVE Suite: 0191
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: DIST 191. (E) STREET DEPARTMENT RESPONDING TO A 311 COMPLAINT ABOUT CITIZEN WORKING ON CARS AND OIL BEING SPILLED ONTO STREET AND HE FOUND TRACE OF IN GUTTER. DO NOT KNOW IF ANY HAD EVERY REACH STORM SEWER

Requested Date: Crew :WALS2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:WHITE, JANICE L Call Back Ready: Y
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 01/27/2021 12:44:26PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: MERRILL Call Back: Y
Address: Suite:
City: STREET DEPARTMENT State: Zip:
Work Phone: (614) 374-6512 Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2101564

2101564

Created Date: 01/27/2021 09:43 AM

CLOSEOUT INFORMATION

Start: 01/27/2021 09:45 AM Finish: 01/27/2021 12:30 PM Completed: _____

Failure: YOPEN Repair: YNFWN Further Action:YNFAN

Comments: after investigation of oil being dumped or spilled infront of 1268 elderw ood ave. w e contacted storm w ater and mike easman came out to location and didnt find any raw material in the gutter or inlets #0191t0713 and #0191t0712.

Inspected By: s.w alters Date: 27-JAN-21

Signoff By:_____ Date: _____

Closed By: STOOPS, DUSTIN D. Date: 28-JAN-21

SPECIFICATIONS

ID: 2100891 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2101779

2101779

Created Date: 01/30/2021 08:28 AM

WORK LOCATION

Address:3137 HERON PT Suite: 0642
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YUPFLOW - Flow from ground or structure.

Problem Description: Dist.#: 642 - Dirty water that smells like sewage is coming up from the ground and draining into Alum Creek's fresh water, at the r/o his address.

Requested Date: Crew :SMIC Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SCOTT, MARCIA R Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: 2102696/01 Finished Date:

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Aldridge, Mike Call Back: N
Address:3137 HERON PT Suite: 0642
City: State: Zip:
Work Phone: Ext: Home Phone: (419) 310-3411

SERVICE REQUEST REPORT

Service Request No.
2101779

2101779

Created Date: 01/30/2021 08:28 AM

CLOSEOUT INFORMATION

Start: 01/30/2021 10:15 AM Finish: 01/30/2021 01:00 PM Completed: Y

Failure: YSTOP Repair: YJETTED Further Action:YCCTV

Comments: YSSO2 - The 12__ inch sanitary sew er w as stopped up w hen checked. Stoppage occurred betw een upstream manhole # _0642s0117__ and dow nstream manhole # _0642s0118 BLIND__. Manhole # 0642S0117___ w as found overflow ing at time of arrival. The sew age entered the storm system at ditch # CREEK REAR OF 3137 HERON PT (ALUM CREEK)__. Attempts to contain the sew age w ith ___ w ere / unsuccessful. Sew er w as opened w ith hand rods/ Vactor by: _EDDY BACK__ and overflow ended at 1245 PM___. John Rubadue w as notified by _CHRIS SMITH__. Signs WERE PLACED AT OVER FLOWSITE ____ and the site w as secured from the public. The storm / sanitary sew ers & site w ork w ill be completed via attached Work Order. Cause of overflow w as roots / / grease /. SSO/CSO email notification sent.ALEX FROM STORM WATER WAS NOTIFIED OF FINDINGS AND JOHN RUBADUE IS AWARE OF ALL THE DETAILS.NEED TO T.V THE 12INCH SANITARY FROM 0642S0251 TO 0642S0118 BLIND REAR OF 3137 HERON PT
YSSO3

Inspected By: smith/stew art Date: 30-JAN-21

Signoff By:_____ Date: _____

Closed By: GRIFFITH, MICHAEL A Date: 16-FEB-21

SPECIFICATIONS

ID: 2100971 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	0642s0117
10	CHECKED TO STRUCTURE #	0642s0118
15	CAUSE = GREASE Y	yes
20	CAUSE = ROOTS Y	yes
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	vactor
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	0642s0117
80	TV TO #	0642s0118
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	

SERVICE REQUEST REPORT

Service Request No.
2101779

2101779

Created Date: 01/30/2021 08:28 AM

SPECIFICATIONS

ID: 2100971 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	
130	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2101976

2101976

Created Date: 02/02/2021 07:46 PM

WORK LOCATION

Address:3770 BROAD ST Suite: 0116
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: DIST # 116 WEST FIRE DEPARTMENT ON SITE. TRACTOR TRAILER ON FIRE AND SPILL OF 25 TO 50 GALLONS OF POSSIBLE FUEL

Requested Date: Crew :NAGD1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:ADKINS, MELINDA L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 02/02/2021 11:18:25PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: FIRE DISPATCHER WALDROP # 129 Call Back: N
Address:3770 BROAD ST Suite: 0116
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 02022021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2101976

2101976

Created Date: 02/02/2021 07:46 PM

CLOSEOUT INFORMATION

Start: 02/02/2021 08:00 PM Finish: 02/02/2021 08:45 PM Completed: _____

Failure: YNCF Repair: YCSPL Further Action:YNFI

Comments: At loction, there w as a truck that had caught fire. Upon arrival the fire w as extenguished, and CFD w as in the process of containing the spill. The ammount of fuel spilled is unknow n due to the fuel level w as not know n. SMOC recieved a cll from Trevor Irw in. Engine 12 w ason scene w hen arrived and informed the crew of their findings. Had dispatchcall in a stormw ater crew for further investigations

Inspected By: NAGY Date: 02-FEB-21

Signoff By:_____ Date: _____

Closed By: JOHNSON, FRED L Date: 05-FEB-21

SPECIFICATIONS

ID: 2101126 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2102184

2102184

Created Date: 02/05/2021 03:30 PM

WORK LOCATION

Address:2582 GROVEPORT RD Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: . CALLER REPORTS THAT WHOEVER IS RUNNING OPERATIONS AT THIS BUSINESS HAS FILLED THE STORM SEWER DRAINS WITH GRAVEL SO AS TO PREVENT MOTOR OIL FROM GETTING INTO THE SEWER SYSTEM.
PLEASE CHECK IT OUT.

Requested Date: Crew :ROBA2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:RSRAAB Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 02/08/2021 09:54:55PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: DECLINED BY CUSTOMER Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

NOTES

DESCRIPTION: Refered to Stormw ater for potential illicit Discharge. Private line discharges to CoC 54" Storm line. (@ time of SR investigation no discharge w as found). M. Link 02.08.21

SERVICE REQUEST REPORT

Service Request No.
2102184

2102184

Created Date: 02/05/2021 03:30 PM

CLOSEOUT INFORMATION

Start: 02/05/2021 04:20 PM Finish: 02/05/2021 05:50 PM Completed: _____

Failure: YOPEN Repair: YNFWN Further Action:YNFAN

Comments: YCB/ #0067T0295, #0067T0009 in front of 2582 groveport rd. did not have gravel or debris in them caller left no name and number. Asset #0067T0299, #0067T0298 are private on property didnt look at them.

Inspected By: A. Roberts Date: 05-FEB-21

Signoff By:_____ Date: _____

Closed By: JOHNSON, FRED L Date: 08-FEB-21

SERVICE REQUEST REPORT

Service Request No.
2103149

2103149

Created Date: 02/25/2021 10:59 AM

WORK LOCATION

Address:63 BELVIDERE AVE Suite: 0046
Cross Street:FAIRMONT AVE
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: DIST 46(W) CALLER STATES THERE IS POOP AND OTHER SEWAGE BEING DISCHARGE FROM THIS HOUSE ONTO THE STREET. ANONYMOUS CITIZEN SAYS ALOT OF TIME THERE CAR IS PARKED OVER WHERE ITS COMMING OUT OF. BUT THE SEWAGE DRAINS DOWN THE STREET

Requested Date: Crew :ENGS1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:WHITE, JANICE L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 02/25/2021 12:20:21PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO # OR NAME GIVEN, ANONYMOUS Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2103149

2103149

Created Date: 02/25/2021 10:59 AM

CLOSEOUT INFORMATION

Start: 02/25/2021 11:35 AM Finish: 02/25/2021 12:15 PM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: YNCF/OPEN – Not city failure, the 8 inch sanitary sew er serving the problem location w as open and flow ing w hen checked. Checked upstream manhole # 0046S0257 and dow nstream manhole # 0046S0256. We did not see any evidence of sew age being pumped out. M. Link w as notified of findings.REFERRED TO STORMWATER/INVESTIGATION FOR FOLLOW UP – Potential illicit discharge to SMOC maintained Storm Sew er/Conveyance/Waterw ay. Investigator(s) contacted. (614).645.8140 sample test @ Curbline. Backlog Group – YSTMPRE

Inspected By: Engle / Walters Date: 25-FEB-21

Signoff By:_____ Date: _____

Closed By: LINK, MICHAEL A Date: 26-FEB-21

SPECIFICATIONS

ID: 2101910 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2103184

2103184

Created Date: 02/25/2021 04:16 PM

WORK LOCATION

Address:3478 MAKADY CT Suite:

Cross Street:

City: State: Zip:

Service Request TypeINVESTIGATE

Problem Code: YOTHP - Other problem not in codes.

Problem Description: . WHITE VEHICLE IS PARKED ON THE PUBLIC STREET DAILY AND IT HAS SOME PROBLEMS AND THE OWNER HAS TO PUT OIL IN IT DAILY AND THE PUBLIC STREET IS REALLY BAD - PLEASE CHECK THE SEWER

Requested Date: Crew :NAGD1 Dept: SEWERMNT Area:SEWERS

Next Approver:

Dispatcher:RPKING Call Back Ready: N

Status: CLOSED Customer Call Back: N

WO/Task No: Finished Date: 02/25/2021 07:44:41PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N

Name: Customer Call Back: N

Work Phone: Ext: Home Phone:

Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0

Address: Suite:

City: State: Zip:

Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2103184

2103184

Created Date: 02/25/2021 04:16 PM

CLOSEOUT INFORMATION

Start: 02/25/2021 06:10 PM Finish: 02/25/2021 06:40 PM Completed: _____

Failure: YOPEN Repair: YNOWORKFND Further Action:YNFAN

Comments: Found no vehicle firring description at location, and found no oil in sew er

Inspected By: NAGY Date: 25-FEB-21

Signoff By:_____ Date: _____

Closed By: JOHNSON, FRED L Date: 26-FEB-21

SERVICE REQUEST REPORT

Service Request No.
2103396

2103396

Created Date: 03/01/2021 09:31 AM

WORK LOCATION

Address:920 CARPENTER ST Suite: 0016
Cross Street:E COLUMBUS ST
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YUPFLOW - Flow from ground or structure.

Problem Description: dist 16 (E) FRONT YARD

Requested Date: Crew :WALS2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:WHITE, JANICE L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 03/01/2021 10:51:43AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: TAJH Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: (614) 620-2218 Ext: Home Phone:

Investigation 03312021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2103396

2103396

Created Date: 03/01/2021 09:31 AM

CLOSEOUT INFORMATION

Start: 03/01/2021 09:45 AM Finish: 03/01/2021 10:45 AM Completed: _____

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: YNCF/STORM/YSSO5 – The sump pump discharge @ 920 carpenter st appears to be pumping w asher machine discharge out in betw een 920 and 924. The _8_ inch City sanitary sew er w as found open betw een upstream manhole # 0016s0355 and dow nstream manhole # 0016c0354. Storm Water notified by investigator.mike easman has been notified and is going to try to contact property ow ner.

Inspected By: s.w alters Date: 01-MAR-21

Signoff By:_____ Date: _____

Closed By: LINK, MICHAEL A Date: 08-MAR-21

SPECIFICATIONS

ID: 2102285 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2103396

2103396

Created Date: 03/01/2021 09:31 AM

SPECIFICATIONS

ID: 2102285 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
130	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2103898

2103898

Created Date: 03/05/2021 11:43 AM

WORK LOCATION

Address:550 MILFORD AVE Suite: 0128
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YASSCLN - Assess need for cleaning.

Problem Description: DIST #0128 (N) NORTHEAST CORNER OF SUMMIT AND MILFORD. THE DRAIN ON THE NORTH EAST CORNER AT SUMMIT AND MILFORD SOMEONE HAS DUMPED WHAT APPEARS TO BE CONCRETE/CEMENT IN THE DRAIN. SAYS THEY ALREADY HAVE A FLOODING ISSUE OUT THERE SO THINKS THIS MAY MAKE IT WORSE

Requested Date: Crew :BOYM1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:ALSMOOT Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: 2106512/01 Finished Date: 03/08/2021 07:05:14AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: WILLIS, CHRISTINE Call Back: 0
Address: 550 MILFORD AVE Suite:
City: COLUMBUS State: OH Zip: 43202
Work Phone: (614) 263-4430 Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2103898

2103898

Created Date: 03/05/2021 11:43 AM

CLOSEOUT INFORMATION

Start: 03/05/2021 02:15 PM Finish: 03/05/2021 02:35 PM Completed: Y

Failure: YDIRTY Repair: YNFWN Further Action:YCLEAN

Comments: YCBB/CLN1- The catch basin#T0591 in front of 550 MILFORD AVE needs to be cleaned w /vactor and the lead flushed.

Inspected By: mboyd/dbrow n Date: 05-MAR-21

Signoff By:_____ Date: _____

Closed By: GRIFFITH, MICHAEL A Date: 11-MAR-21

CALL HISTORY

Call No: 1 Call Date: 03/05/2021 11:43:42AM

Comments: Service request type w as changed from GENERAL INFORMATION/NOTES to STREET FLOODING/BLOCKED DRAINS

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2104416

2104416

Created Date: 03/12/2021 04:31 PM

WORK LOCATION

Address:1618 BRIARWOOD AV Suite: 0088
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: DIST # 88 NORTH NEIGHBOR AT 1624 BRIARWOOD (PORTIA) REPORTED A BROKEN PIPE COMING OUT THE FRONT OF THE HOUSE THAT IS POURING WASTE WATER AND DEBRIS TO THE YARD AND STREET

Requested Date: Crew :ROBA2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:ADKINS, MELINDA L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 03/12/2021 08:25:57PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Call Back: N
Address:1618 BRIARWOOD AV Suite: 0088
City: State: Zip:
Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2104416

2104416

Created Date: 03/12/2021 04:31 PM

CLOSEOUT INFORMATION

Start: 03/12/2021 05:00 PM Finish: 03/12/2021 06:30 PM Completed: _____

Failure: YNCF Repair: YNFWN Further Action:_____

Comments: NO SCRIPT PRIVATE ISSUE: TENANT RENTING PROPERTY SEEN WATER COMING FROM SUMP PUMP

Inspected By: A. ROBERTS Date: 12-MAR-21

Signoff By:_____ Date: _____

Closed By: JOHNSON, FRED L Date: 16-MAR-21

SERVICE REQUEST REPORT

Service Request No.
2104472

2104472

Created Date: 03/15/2021 06:35 AM

WORK LOCATION

Address:510 GATES ST E Suite: 0017
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YODOR - Bad odor inside or outside.

Problem Description: DIST #0017 (S&E) **Check ML, & confirm True/False. Wager Street. ON-LINE REQUEST. The sump pump discharge of 510 E Gates is discharging foul smelling fluid at the street.

Requested Date: Crew :WALS2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:MLBOONE Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 03/15/2021 09:11:58AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Schroeder, Thomas Call Back: 0
Address: 522 E GATES ST Suite:
City: COLUMBUS State: OH Zip: 43206
Work Phone: (740) 463-6396 Ext: Home Phone:

Investigation 03152021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2104472

2104472

Created Date: 03/15/2021 06:35 AM

CLOSEOUT INFORMATION

Start: 03/15/2021 08:15 AM Finish: 03/15/2021 09:15 AM Completed: _____

Failure: YNCF Repair: YNFWN Further Action:YNFI

Comments: YNCF/STORM/YSSO5 – The sump pump discharge @ location of 510 e.gates st. was due to the private service connection being stopped. The 8 inch City sanitary sewer was found open between upstream manhole # 0017s0364 and downstream manhole # 0017s0368. The sewage entered the storm system at inlet/catch basin# 0017t0570. REFERRED TO STORMWATER/INVESTIGATION FOR FOLLOW UP – Potential illicit discharge to SMOC maintained Storm Sewer/Conveyance/Waterway. Investigator(s) contacted. (614).645.8140 for follow-up during normal business hours. Backlog Group – YSTMPRE Email referral path: AMYakhnitskiy@columbus.gov ; DMRepasky@columbus.gov

Inspected By: walters/engle/LINK Date: 15-MAR-21

Signoff By:_____ Date: _____

Closed By: LINK, MICHAEL A Date: 15-MAR-21

SPECIFICATIONS

ID: 2102762 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2104472

2104472

Created Date: 03/15/2021 06:35 AM

SPECIFICATIONS

ID: 2102762 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
130	RECEIVING WATERWAY?	

CALL HISTORY

Call No: 1 Call Date: 04/15/2021 02:53:21PM

Comments: . PER EMAIL

WHAT HAS BEEN DONE ABOUT THIS? NOTHING ON SITE HAS BEEN DONE TO MITIGATE HEALTH RISKS TO CITIZENS. SINCE THE DAY I REPORTED IT THERE HAS STILL BE RAW SEWAGE FLOWING RIGHT DOWN THE STREET INTO THE STORM SEWER. NOTHING HAS BEEN ROPED OFF, AND NO WARING SIGNS HAVE BEEN POSTED TO PROTECT CITIZENS FROM HEALTH RISKS.

Response: CUSTOMER CONTACT

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2104688

2104688

Created Date: 03/17/2021 12:17 PM

WORK LOCATION

Address: HARTFORD ST Suite:
Cross Street: PARK BLVD
City: State: Zip:
Service Request Type: INVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: . CALLER STATES A RESIDENT NOTICED SOME WHITE MILKY STUFF IN THE WATER THAT FLOWS THROUGH PARK BLVD PARK. LOOKS LIKE SOMEONE MAY HAVE DUMPED SOMETHING IN IT. PLEASE CHECK, THANKS!

Requested Date: Crew: LINM1 Dept: SEWERMNT Area: SEWERS
Next Approver:
Dispatcher: CABURKE Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 04/01/2021 06:52:02AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: GALLAGHER, SARAH Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: (614) 893-7935 Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2104688

2104688

Created Date: 03/17/2021 12:17 PM

CLOSEOUT INFORMATION

Start: 03/17/2021 01:55 PM Finish: 03/17/2021 03:00 PM Completed: Y

Failure: YNISA Repair: YNFWN Further Action:YNFAN

Comments: YNCF- Call back completed. M. Link. Out of service area. Customr referred to City of Worthington, EPA for service.

Inspected By: LINK Date: 01-APR-21

Signoff By:_____ Date: _____

Closed By: LINK, MICHAEL A Date: 01-APR-21

CALL HISTORY

Call No: 2 Call Date: 03/17/2021 12:17:37PM

Comments: Service request type w as changed from GENERAL INFORMATION/NOTES to SEWER/MISCELLANEOUS

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

Call No: 1 Call Date: 03/17/2021 12:17:36PM

Comments: Location w as changed from Optional to HARTFORD ST and PARK BLVD

Response: New Location

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2104714

2104714

Created Date: 03/17/2021 03:51 PM

WORK LOCATION

Address: CLEVELAND AVE Suite: 0179
Cross Street: INNIS RD
City: State: Zip:
Service Request Type INVESTIGATE
Problem Code: YUPFLOW - Flow from ground or structure.

Problem Description: DIST 179 (N) PER JOHN RUBA DUE, DOUBLE CHECK WATER COMMING OUT OF SEWER ON THE CORNER WHERE MCDONALDS IS. FRANKLIN COUNTY BELIEVED IT TO BE PRIVATE ISSUE AND NOTIFY THE OWNER WHOM IS RESPONSPIBLE.

Requested Date: Crew :ROBA2 Dept: SEWERMNT Area: SEWERS
Next Approver:
Dispatcher: WHITE, JANICE L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: 2107403/01 Finished Date: 03/17/2021 11:12:58PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: SMOC MANAGER Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2104714

2104714

Created Date: 03/17/2021 03:51 PM

CLOSEOUT INFORMATION

Start: 03/17/2021 04:20 PM Finish: 03/17/2021 08:05 PM Completed: _____

Failure: YMHOP Repair: YJETTED Further Action:YREPAIR

Comments: YSSO2/OPND/CCTV - The 8 inch sanitary sew er w as stopped up w hen checked. Stoppage occurred betw een upstream manhole #0179S0486 and dow nstream manhole #0179S0489. Manhole #0179S0486 w as found overflow ing at time of arrival. The sew age entered the storm system at inlet #0179T0587. Sew er w as opened w ith Vactor by:Jacob Shipplet and overflow ended at 8:05 pm. John Rubadue w as notified by Fred Johnson. Cause of overflow w as grease. SSO/CSO email notification sent. YWIB/SSO/CCTV - The 8 Inch sanitary sew er @ location of 3435 Cleveland Ave. needs to be CCTV'd from upstream manhole #0179S0486 to the dow nstream manhole #0179S0489 to determine condition of sew er & cause. CCTV operator please notify investigator:F.Johnson of findings upon completion of task. Operator, notate cause on SR Attachment* inspection form. (NOTE THE CAUSE OF STOPPAGE WAS GREASE). Private issue w ill not be reported to the Ohio EPA.

Inspected By: F.JOHNSON/A.ROBERTS Date: 17-MAR-21

Signoff By:_____ Date: _____

Closed By: GRIFFITH, MICHAEL A Date: 19-MAR-21

SPECIFICATIONS

ID: 2102787 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	Y
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	

SERVICE REQUEST REPORT

Service Request No.
2104714

2104714

Created Date: 03/17/2021 03:51 PM

SPECIFICATIONS

ID: 2102787 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	
130	RECEIVING WATERWAY?	

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2104814

2104814

Created Date: 03/18/2021 03:24 PM

WORK LOCATION

Address:5723 BURNTWOOD WAY Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: . CALLER STATES THE NEIGHBOR AT THIS LOCATION IS DUMPING BAGS OF DOG POOP INTO THE SEWER

Requested Date: Crew :NAGD1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher: DJREEDER Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 03/18/2021 10:09:23PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2104814

2104814

Created Date: 03/18/2021 03:24 PM

CLOSEOUT INFORMATION

Start: 03/18/2021 05:30 PM Finish: 03/18/2021 06:00 PM Completed: _____

Failure: YOPEN Repair: YNOWORKFND Further Action:YNFAN

Comments: Found no evidence of any dumping, In order to dumpinto the inlets the grate w ould have to be removed and replaced

Inspected By: NAGY Date: 18-MAR-21

Signoff By:_____ Date: _____

Closed By: JOHNSON, FRED L Date: 22-MAR-21

SERVICE REQUEST REPORT

Service Request No.
2104880

2104880

Created Date: 03/19/2021 10:12 AM

WORK LOCATION

Address:1550 BRIARWOOD AVE Suite: 0088
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: DIST 88 (N) LANDLORD (OWNER) PUMPING SEWAGE OUT INTO THE STREET AND NOW GOING INTO STORM SEWER

Requested Date: Crew :STOD2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:WHITE, JANICE L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 03/19/2021 02:14:55PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: ELLLAINE Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: (380) 222-0943 Ext: Home Phone:

Investigation 0319021-1

SERVICE REQUEST REPORT

Service Request No.
2104880

2104880

Created Date: 03/19/2021 10:12 AM

CLOSEOUT INFORMATION

Start: 03/19/2021 10:55 AM Finish: 03/19/2021 11:30 AM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:YREQST

Comments: YNCF/OPEN – Not city failure, the 8 inch sanitary sew er serving the problem location w as open and flow ing w hen checked. Checked upstream manhole #0088S0227 and dow nstream manhole #0088S0228. Tenant w as notified of findings by Investigator.

Tenant of 1550 Briarw ood Ave. w as pumping w ater out to the street. Contacted Stormw ater to test w ater running into catch basin # 0088T0726. Matt contacted me on his w ay out. I sent him pictures of the pumping set up.

REFERRED TO STORMWATER/INVESTIGATION FOR FOLLOW UP – Potential illicit discharge to SMOC maintained Storm Sew er/Conveyance/Waterw ay. Investigator(s) contacted. (614).645.8140 for follow -up during normal business hours. Backlog Group – YSTMPRE Email referral path: AMYakhnitskiy@columbus.gov ; DMRepasky@columbus.gov

Inspected By: Stoops, D. Wallace, M. Date: 19-MAR-21

Signoff By:_____ Date: _____

Closed By: GRIFFITH, MICHAEL A Date: 25-MAR-21

Submitted by: AEPINSON

Oracle

Report s_rpt138 v 1912-1

SERVICE REQUEST REPORT

Service Request No.
2105460

2105460

Created Date: 03/26/2021 03:55 PM

WORK LOCATION

Address:24 SCHROCK RD E Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: . EMAIL RCVD 3.26.21

THESE GUYS WERE DOING REPAIRS IN THE PARKING LOT OF ADVANCE AUTO ON WESTERVILLE RD. AND LETTING FLUIDS DRAIN INTO THE STORM DRAIN. DON'T THINK THAT IS LEGAL OR A GOOD IDEA. WHAT DO YOU THINK?

Requested Date: Crew :ROBA2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:ALSMOOT Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 03/26/2021 08:29:41PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2105460

2105460

Created Date: 03/26/2021 03:55 PM

CLOSEOUT INFORMATION

Start: 03/26/2021 05:30 PM Finish: 03/26/2021 07:00 PM Completed: _____

Failure: YNCF Repair: YNFWN Further Action:_____

Comments: SEARCHED PARKING LOT IN FRONT OFADVANCE AUTO SEEN NO SPILLS YB AND SEWER INLETS

Inspected By: A. ROBERTS Date: 26-MAR-21

Signoff By:_____ Date: _____

Closed By: GRIFFITH, MICHAEL A Date: 01-APR-21

SPECIFICATIONS

ID: 2103983 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2105474

2105474

Created Date: 03/27/2021 10:42 AM

WORK LOCATION

Address:1618 BRIARWOOD AVE Suite: 0088
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: Dist.#: 88 - Mr. Little stated that he lives at 1624 Briarwood Ave. and that sewage is flowing down the street. He said that it appears to be coming from a drain in f/o 1618. Dashboard shows a sanitary at the r/o 1624, (his address) and storm drains on Greenwich and at Greenwich & Briarwood, but no storms in f/o these addresses.

Requested Date: Crew :ALBM1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SCOTT, MARCIA R Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 03/27/2021 11:36:07AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Little, Craig Call Back: N
Address:1624 BRIARWOOD AVE Suite:
City: State: Zip:
Work Phone: Ext: Home Phone: (614) 828-7383

Investigation 0329021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2105474

2105474

Created Date: 03/27/2021 10:42 AM

CLOSEOUT INFORMATION

Start: 03/27/2021 11:00 AM Finish: 03/27/2021 11:30 AM Completed: Y

Failure: YNCF Repair: YSTANDBY Further Action:YNFI

Comments: YNCF/OPEN – Not city failure, the 8 inch sanitary sewer serving the problem location was open and flowing when checked. Checked upstream manhole #0088S0229 and downstream manhole #0088S02. Tenant was notified of findings by Dispatch. THIS WAS TURNED OVER TO STORM WATER FOR FURTHER INVESTIGATION. SAMPLE CAME BACK AS FRESH WATER. NO FURTHER WORK NEEDED.

Inspected By: STEWART Date: 27-MAR-21

Signoff By:_____ Date: _____

Closed By: LINK, MICHAEL A Date: 31-MAR-21

SPECIFICATIONS

ID: 2104024 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2105474

2105474

Created Date: 03/27/2021 10:42 AM

SPECIFICATIONS

ID: 2104024 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
130	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2105751

2105751

Created Date: 03/31/2021 09:57 AM

WORK LOCATION

Address:1612 BRIARWOOD AVE Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: Y311 - SMOC 311 SERVICE REQUEST

Problem Description: . ON-LINE REQUEST. possible basement sewage back up being pumped to street. between 1652 and 1612 Briarwood ave in street gutter.

Requested Date: Crew :LINM1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:MAHALDERMAN Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 03/31/2021 11:21:32AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 0329021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2105751

2105751

Created Date: 03/31/2021 09:57 AM

CLOSEOUT INFORMATION

Start: 03/31/2021 11:17 AM Finish: 03/31/2021 11:21 AM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: YNCF- See DOSD SR #2105474. The 8" sew er w as found open & flow ing. Sump discharge w as tested by Storm Water 03.29, found to be ground w ater. Confirmed w ith onsite Habitate for Humanity. All builds are w ithin code. No sanitary discharge found.

Inspected By: LINK Date: 31-MAR-21

Signoff By:_____ Date: _____

Closed By: LINK, MICHAEL A Date: 31-MAR-21

SERVICE REQUEST REPORT

Service Request No.
2105860

2105860

Created Date: 04/01/2021 06:11 PM

WORK LOCATION

Address:588 2ND AVE Suite: 0010
Cross Street:
City: State: Zip:
Service Request Type INVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: DIST # 10 CITIZEN REPORTS MUD HAS BEEN RUNNING INTO STORM DRAINS AND DOWN THE STREET TO THE RIVER FROM A NEW BUILD CONSTRUCTION SITE. THE CONSTRUCTION SITE DOES NOT HAVE ANY BARRIERS INSTALLED TO PREVENT THE MUD FROM RUNNING INTO THE STORM. THE NEW BUILD ADDRESS IS 588 AND 586 2ND AVE. THERE MAY NOT BE SIGNAGE SO THE CLOSEST ADDRESS IS 590. CITIZEN STATED THAT HE REPORTED IT TO 311 ABOUT 3 WEEKS AGO.

Requested Date: Crew :ROBA2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:ADKINS, MELINDA L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 04/01/2021 08:05:25PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: UNKNOWN Call Back: N
Address:588 2ND AVE Suite: 0010
City: State: Zip:
Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2105860

2105860

Created Date: 04/01/2021 06:11 PM

CLOSEOUT INFORMATION

Start: 04/01/2021 06:20 PM Finish: 04/01/2021 07:50 PM Completed: _____

Failure: YNCF Repair: YNFWN Further Action:_____

Comments: YNCF/OPEN – Not city failure, the storm sew er serving the problem location w as open and flow ing w hen checked. Checked CATCH BASIN #0010T0561DRY NO MUD

Inspected By: A. ROBERTS Date: 01-APR-21

Signoff By:_____ Date: _____

Closed By: ROBERTS, ANTHONY L Date: 01-APR-21

SERVICE REQUEST REPORT

Service Request No.
2106121

2106121

Created Date: 04/06/2021 03:34 PM

WORK LOCATION

Address:4920 CALHOON DR Suite: 0233
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: POSSABLE ILLEGAL PIPE AROUND STORM INLET 0233T0104 REAR OF 4920 CALHOON.CAUSING EROSION AROUND STORM INLET...TALK TO LADY AT 4920 CALHOON

Requested Date: Crew :GRAA1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SMITH, CHRIS A Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 04/06/2021 07:57:55PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 04062021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2106121

2106121

Created Date: 04/06/2021 03:34 PM

CLOSEOUT INFORMATION

Start: 04/06/2021 05:00 PM Finish: 04/06/2021 07:33 PM Completed: _____

Failure: YNCF Repair: _____ Further Action:YNFI

Comments: NO SCRIPT AVAILABLE---Patti Zacek at 4920 Calhoon is concerned about ground erosion around C/B #0233T0104 in her back yard. Johnson Auto repair has rain w ater diverted thru drain tile from their parking lot area. I asked them to install concrete splash blocks to resolve the situation, she is in agreement. Storm w ater w ill be notified of findings.

Inspected By: grashel Date: 06-APR-21

Signoff By: _____ Date: _____

Closed By: JOHNSON, FRED L Date: 09-APR-21

SERVICE REQUEST REPORT

Service Request No.
2106326

2106326

Created Date: 04/09/2021 10:40 AM

WORK LOCATION

Address:1044 ASHBURTON RD S Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: . PEOPLE WORKING ON CARS AND OIL RUNNING DOWN THE STREET. **** THE GIVEN ADDRESS APPEARS TO BE DOING CAR REPAIRS. PLEASE REASSIGN TO SEWER AND DRAINS REGARDING ILLICIT DISCHARGE FOR MULTIPLE OIL SPOTS IN THIS IMMEDIATE AREA

Requested Date: Crew :LINM1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:MLBOONE Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 04/09/2021 11:01:07AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 04092021-2

Submitted by: MALINK

SERVICE REQUEST REPORT

Service Request No.
2106326

2106326

Created Date: 04/09/2021 10:40 AM

CLOSEOUT INFORMATION

Start: 04/09/2021 10:59 AM Finish: 04/09/2021 11:00 AM Completed: Y

Failure: YNYD Repair: YNFWN Further Action:YNFAN

Comments: REFERRED TO STORMWATER/INVESTIGATION FOR FOLLOW UP – Potential illicit discharge to SMOC maintained Storm Sewer/Conveyance/Waterway. Investigator(s) contacted. (614).645.8140 for follow-up during normal business hours. Backlog Group – YSTMPRE Email referral path: AMYakhnitskiy@columbus.gov ; DMRepasky@columbus.gov

Inspected By: LINK Date: 09-APR-21

Signoff By:_____ Date: _____

Closed By: LINK, MICHAEL A Date: 09-APR-21

SPECIFICATIONS

ID: 2104843 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

13 APR 2021
03:08 PM

Service Request No.
2100156

2100156

Created Date: 01/04/2021 01:35 PM

WORK LOCATION

Address:2039 STOKESWOOD CT Suite:

Cross Street:

City: State: Zip:

Service Request TypeINVESTIGATE

Problem Code: YOTHP - Other problem not in codes.

Problem Description: . ON-LINE REQUEST.

The storm sewer at rear of our property (SE corner) has a pvc pipe resting on top of the grate. This pipe empties into the sewer. Water can often be heard coming through the pipe.

The pipe has been there for years, though origin is unknown. I do not know any of the neighbors in that area to make inquiries.

When walking my yard I have noticed a chlorine smell in that area, which I wanted to report to you. It brings to mind discharge from a laundry room.

Thank you for troubleshoo

Requested Date: Crew :NAGD1 Dept: SEWERMNT Area:SEWERS

Next Approver:

Dispatcher:MAHALDERMAN Call Back Ready: N

Status: CLOSED Customer Call Back: N

WO/Task No: Finished Date: 01/08/2021 03:19:48PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N

Name: Customer Call Back: N

Work Phone: Ext: Home Phone:

Company: Tax ID:

REPORTED BY

Name: Wieland, Merry Call Back: 0

Address: 2039 STOKESWOOD CT Suite:

City: COLUMBUS State: OH Zip: 43016

Work Phone: (614) 208-1972 Ext: Home Phone:

Investigation 04122021-1

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2100156

2100156

Created Date: 01/04/2021 01:35 PM

CLOSEOUT INFORMATION

Start: 01/07/2021 04:15 PM Finish: 01/07/2021 05:20 PM Completed: _____

Failure: YNCF Repair: YNOWORKFND Further Action:YNFAN

Comments: Pipe is a drain for a sump pump. the drain belongs to either 2010 or 2018 SWANSFORD. Does not appear to be an issue with the storm sewer Refer to S.R.M.S. #04132021-1

Inspected By: NAGY Date: 07-JAN-21

Signoff By:_____ Date: _____

Closed By: JOHNSON, FRED L Date: 08-JAN-21

DOCUMENTS AND PROCEDURES

Document ID	Document Type	Status	Revision	Last Update Date
311-125622	DOCUMENT	CREATED		

SERVICE REQUEST REPORT

Service Request No.
2106533

2106533

Created Date: 04/13/2021 02:41 PM

WORK LOCATION

Address:3275 SULLIVANT AVE
Suite:
Cross Street:SYLVAN AVE
City:
State:
Zip:
Service Request TypeR-DIST
Problem Code: R-CKLK - CHECK LEAK

Problem Description: 4/13/2021 2:36 PM p matt claypool w /fairw ood 3275 sullivant ave x=SYLVAN WATER COMING OUT OF GROUND TESTED AND HAS CHLORINE IN IT PLS CHK OM-Y 2:42P

Requested Date:
Crew :
Dept: DOW-DIST
Area:DOW-DDIST
Next Approver:
Dispatcher:MORTON, OLIVIA D
Call Back Ready: N
Status: ACTIVE
Customer Call Back: N
WO/Task No:
Finished Date:

CUSTOMER INFORMATION

Customer ID:
Bill Customer: N
Name:
Customer Call Back: N
Work Phone:
Ext:
Home Phone:
Company:
Tax ID:

REPORTED BY

Name:
Call Back: N
Address:
Suite:
City:
State:
Zip:
Work Phone:
Ext:
Home Phone:

Investigation 04132021-2

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2106533

2106533

Created Date: 04/13/2021 02:41 PM

CLOSEOUT INFORMATION

Start: 04/13/2021 02:42 PM Finish: _____ Completed: _____

Failure: _____ Repair: _____ Further Action: _____

Comments:

Inspected By: _____ Date: _____

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SERVICE REQUEST REPORT

Service Request No.
2106639

2106639

Created Date: 04/15/2021 09:31 AM

WORK LOCATION

Address:3081 BAYLOR AVE Suite: 0091
Cross Street:N CASSADY AVE
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YFLOOD - Flooding, surface w ater.

Problem Description: DIST 91 (N) CBS, PEOPLE ALWAYS THROUGHING TRASH INTO CB. PLEASE CLEAN IT OUT

Requested Date: Crew :ENGS1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:WHITE, JANICE L Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 04/15/2021 11:02:08AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: ANONYMOUS Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2106639

2106639

Created Date: 04/15/2021 09:31 AM

CLOSEOUT INFORMATION

Start: 04/15/2021 10:15 AM Finish: 04/15/2021 11:00 AM Completed: Y

Failure: YOPEN Repair: YNOWORKFND Further Action:YNFAN

Comments: YCB - Catch basins # 0091T0130, # 0091T0131 and # 0091T0132 (12" and 18") were open, clean and flowing. No further work needed.

Inspected By: Engle / Brown Date: 15-APR-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SERVICE REQUEST REPORT

Service Request No.
2107151

2107151

Created Date: 04/24/2021 07:03 PM

WORK LOCATION

Address: HOLTZMAN AVE Suite: 0061
Cross Street: BRYDEN RD
City: State: Zip:
Service Request Type INVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: Dist. #: 61 - A car hit two pole mounted transformers at this location. There has been a spill.

Requested Date: Crew: LAML1 Dept: SEWERMNT Area: SEWERS
Next Approver:
Dispatcher: SCOTT, MARCIA R Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 04/26/2021 09:11:36AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Cavinee, Drew Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: (419) 560-3320 Ext: Home Phone:

Investigation 04242021-1

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2107151

2107151

Created Date: 04/24/2021 07:03 PM

CLOSEOUT INFORMATION

Start: 04/24/2021 07:15 PM Finish: 04/24/2021 08:20 PM Completed: Y

Failure: _____ Repair: _____ Further Action: _____

Comments: Refer to S.R.M.S. Report #04242021-1

Inspected By: Lamb Date: 26-APR-21

Signoff By: _____ Date: _____

Closed By: LAMB, ROBERT F Date: 26-APR-21

SPECIFICATIONS

ID: 2106100 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2107521

2107521

Created Date: 04/29/2021 05:24 PM

WORK LOCATION

Address:1829 PENFIELD CT S Suite: 0141
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YFLOOD - Flooding, surface w ater.

Problem Description: DIST # 141 SOUTH CITIZEN STATES THE PEOPLE AT THIS ADDRESS THROW TRASH INTO THE STORM WHICH CAUSES THE STREET TO FLOOD WHEN IT RAINS

Requested Date: Crew :STOD2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:ADKINS, MELINDA L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: 2111539/01 Finished Date:

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: UNKNOWN Call Back: N
Address:1829 PENFIELD CT S Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2107521

2107521

Created Date: 04/29/2021 05:24 PM

CLOSEOUT INFORMATION

Start: 04/29/2021 07:45 PM Finish: 04/29/2021 09:30 PM Completed: Y

Failure: YDIRTY Repair: YJETTED Further Action:YCCTV

Comments: YFLOOD/OPND/CLN - The CB #0141T0230 @ 1829 Penfield Ct. S. was opened by Vactor by: A. Ross by Power Cleaning. The water receded @ time of investigation. The flooding @ location of 1829 Penfield Ct. S. was caused by excessive debris.

The 12 inch storm sewer serving this location needs to be televised from CB# 0141T0230 one section to outfall pipe # 0141T0440 to check condition of sewer.

Inspected By: Stoops, D. Ali, A. Date: 29-APR-21

Signoff By:_____ Date: _____

Closed By: GRIFFITH, MICHAEL A Date: 16-JUL-21

SERVICE REQUEST REPORT

Service Request No.
2108211

2108211

Created Date: 05/11/2021 10:26 AM

WORK LOCATION

Address:2009 FLORAL AVE Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: Y311 - SMOC 311 SERVICE REQUEST

Problem Description: . MOBILE REQUEST. Paint dumped dow n storm drain.

Requested Date: Crew :LINM1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:MAHALDERMAN Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 05/11/2021 11:15:46AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: 00 Ext: Home Phone:

Investigation 05112021-4

Submitted by: JDBOWLING

SERVICE REQUEST REPORT

Service Request No.
2108211

2108211

Created Date: 05/11/2021 10:26 AM

CLOSEOUT INFORMATION

Start: 05/11/2021 11:06 AM Finish: 05/11/2021 11:15 AM Completed: Y

Failure: YNYD Repair: YNFWN Further Action:YNFI

Comments: REFERRED TO STORMWATER/INVESTIGATION FOR FOLLOW UP – Potential illicit discharge to SMOC maintained Storm Sewer/Conveyance/Waterway. Investigator(s) contacted. (614).645.8140 for follow-up during normal business hours. Backlog Group – YSTMPRE Email referral path: AMYakhnitskiy@columbus.gov ; DMRepasky@columbus.gov
After checking area had power come out and clean area with Vactor.No other work needed .
REF to IR#05112021-4

Inspected By: LINK Date: 11-MAY-21

Signoff By:_____ Date: _____

Closed By: LINK, MICHAEL A Date: 11-MAY-21

SERVICE REQUEST REPORT

Service Request No.
2108561

2108561

Created Date: 05/17/2021 10:06 AM

WORK LOCATION

Address:1525 KOEBEL RD Suite: 0066
Cross Street:RHOADS AVE
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YFLOOD - Flooding, surface w ater.

Problem Description: DIST 66 (E) LAWN GUY KEEPS DUMPING YARD WASTE INTO THE CB FOR SEVERAL HOUSES ON THE STREET.

Requested Date: Crew :SMIC Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:WHITE, JANICE L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 05/17/2021 10:51:33AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: ANONYMOUS Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2108561

2108561

Created Date: 05/17/2021 10:06 AM

CLOSEOUT INFORMATION

Start: 05/17/2021 10:30 AM Finish: 05/17/2021 11:30 AM Completed: Y

Failure: YNCF Repair: YNOWORKFND Further Action:_____

Comments: NO GRASS FOUND IN STORM SEWER OR ON STREET AT THIS TIME.....

Inspected By: SMITH/STEWART Date: 17-MAY-21

Signoff By:_____ Date: _____

Closed By: LINK, MICHAEL A Date: 20-MAY-21

SERVICE REQUEST REPORT

Service Request No.
2108996

2108996

Created Date: 05/25/2021 07:35 AM

WORK LOCATION

Address:5899 WELLBRID DR Suite: 0281
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YFAULT - Structure failure; sink hole, cave in, etc.

Problem Description: DIST #0281 (W) Vinble Dr.. ON-LINE REQUEST. Reporting on behalf of my elderly neighbor's request. He said the storm w ater drainage on his backyard is "sinking into the ground" and has big opening hole w here he saw an unknow n animal came out from it and w andering in his yard. Currently he is blocking the opening w ith some paver stones. Please see pictures. If this is not the correct place to report this, could you please forw ard this to the right department? Thank you, Monika.

Requested Date: Crew :NAGD1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SJSPARKS Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 05/25/2021 03:03:46PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Djamaluddin, Monika Call Back: 0
Address: 5893 WELLBRID DR Suite:
City: COLUMBUS State: OH Zip: 43119
Work Phone: (614) 446-1079 Ext: Home Phone:

Investigation 05252021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2108996

2108996

Created Date: 05/25/2021 07:35 AM

CLOSEOUT INFORMATION

Start: 05/25/2021 08:00 AM Finish: 05/25/2021 09:00 AM Completed: _____

Failure: YNCF Repair: _____ Further Action:YNFI

Comments: Inlet at location w as built as designed, no settlement , or erpsipn. Inlet w as designed w ith a w indow . We did find eveidence of dumping in the inlet and w as reported to stormw ater

Inspected By: NAGY Date: 25-MAY-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

DOCUMENTS AND PROCEDURES

Document ID	Document Type	Status	Revision	Last Update Date
311-133105	DOCUMENT	CREATED		

SERVICE REQUEST REPORT

Service Request No.
2109286

2109286

Created Date: 05/28/2021 02:42 PM

WORK LOCATION

Address:1709 MARINA DR Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YFLOOD - Flooding, surface water.

Problem Description: . CALLER STATES SOMEONE HAS DUMPED THEIR TRASH DOWN THE SEWER AND THE SMELL IS HORRIBLE. CALLER REQUESTING SOMEONE COME OUT TO INVESTIGATE.

Requested Date: Crew :ROBA2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:GAHOLLOWAY Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 05/28/2021 07:43:11PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: DECLINED Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2109286

2109286

Created Date: 05/28/2021 02:42 PM

CLOSEOUT INFORMATION

Start: 05/28/2021 04:00 PM Finish: 05/28/2021 05:30 PM Completed: _____

Failure: YDIRTY Repair: YRMVDDEBR Further Action:YNFAN

Comments: YFLOOD/OPND/CLN - The CB/INLET #0056T0207 @ 17709 marina dr was opened by hand.. The water receded @ time of investigation. The flooding @ location of 1709 marina dr was caused by excessive debris.

Inspected By: A. ROBERTS Date: 28-MAY-21

Signoff By:_____ Date: _____

Closed By: JOHNSON, FRED L Date: 05-JUN-21

SERVICE REQUEST REPORT

Service Request No.
2109459

2109459

Created Date: 06/02/2021 10:01 AM

WORK LOCATION

Address:3137 WESTERVILLE RD Suite: 0179
Cross Street:OAKLAND PARK AVE
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YUPFLOW - Flow from ground or structure.

Problem Description: DIST 179 (N) SEWAGE COMMING OUT OF GROUND B/T UNITS LOT 59 & 60

Requested Date: Crew :STES1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:WHITE, JANICE L Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 06/02/2021 10:47:45AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: DUANE Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: (614) 772-3246 Ext: Home Phone:

Investigation 06022021-1

SERVICE REQUEST REPORT

Service Request No.
2109459

2109459

Created Date: 06/02/2021 10:01 AM

CLOSEOUT INFORMATION

Start: 06/02/2021 10:00 AM Finish: 06/02/2021 11:00 AM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: YNCF/OPEN – Not city failure, the 18 inch sanitary sewer serving the problem location was open and flowing when checked. Checked upstream manhole #0179S0048 and downstream manhole #0179S0044. Tenant was notified of findings by Dispatch.

Inspected By: STEWART / SMITH Date: 02-JUN-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2107781 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	

Submitted by: MECLAYPOOL

SERVICE REQUEST REPORT

Service Request No.
2109459

2109459

Created Date: 06/02/2021 10:01 AM

SPECIFICATIONS

ID: 2107781 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
130	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2109625

2109625

Created Date: 06/04/2021 09:14 PM

WORK LOCATION

Address:485 OAKWOOD AVE Suite: 0034
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YWIB - Water in Basement (drain backup).

Problem Description: Dist.#: 34 - When she told her landlord she had w ib, he installed a sump pump in her basement. He also cut a hole in the cement floor and installed plastic pipes that come out to the yard. The sump pump pushes brow n, smelly w ater out into the yard through these pipes.

Requested Date: Crew :GRAA1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SCOTT, MARCIA R Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 06/07/2021 09:05:21PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Womack, Mekol Call Back: N
Address:485 OAKWOOD AVE Suite: 0034
City: State: Zip:
Work Phone: Ext: Home Phone: (614) 929-0736

SERVICE REQUEST REPORT

Service Request No.
2109625

2109625

Created Date: 06/04/2021 09:14 PM

CLOSEOUT INFORMATION

Start: 06/04/2021 09:18 PM Finish: 06/04/2021 11:00 PM Completed: _____

Failure: YNCF Repair: _____ Further Action:YNFAN

Comments: YNCF/OPEN – Not city failure, the 8 inch sanitary sewer serving the problem location was open and flowing when checked. Checked upstream manhole #0015S0491 and downstream manhole #0015S0490. Tenant was notified of findings by Investigator We referd her to D.O.W. to check for water possible water leak.

Inspected By: grashel Date: 04-JUN-21

Signoff By: _____ Date: _____

Closed By: JOHNSON, FRED L Date: 07-JUN-21

SPECIFICATIONS

ID: 2107897 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2109625

2109625

Created Date: 06/04/2021 09:14 PM

SPECIFICATIONS

ID: 2107897 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
130	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2110375

2110375

Created Date: 06/17/2021 06:09 PM

WORK LOCATION

Address: REYNARD RD Suite:
Cross Street: ARGO LN
City: State: Zip:
Service Request Type INVESTIGATE
Problem Code: Y311 - SMOC 311 SERVICE REQUEST

Problem Description: DIST 0320 S/E. CALLER IS REQUESTING THAT THE SEWERS AROUND REYNARD AND ARGO BE CLEANED. SHE HAS SEEN A RACOON LIVING IN ONE AND IS CONCERNED THAT SOMEONE HAS DUMPED GRASS IN ONE. THANK YOU.

Requested Date: Crew :ENGS1 Dept: SEWERMNT Area: SEWERS
Next Approver:
Dispatcher: SJSPARKS Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 06/17/2021 07:39:51PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: BENNETT, CANDY Call Back: 0
Address: 5460 ARGO LN Suite:
City: COLUMBUS State: OH Zip: 43232
Work Phone: (614) 563-3249 Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2110375

2110375

Created Date: 06/17/2021 06:09 PM

CLOSEOUT INFORMATION

Start: 06/17/2021 06:15 PM Finish: 06/17/2021 07:45 PM Completed: _____

Failure: YNOSTORM Repair: YHNDCLND Further Action:YNFAN

Comments: YINL1 - The storm inlets # 0320T0147, # 0320T0148 and # 0320T0149 (12" T) at Reynard Rd. and Argo Ln. had the trash and debris removed from the inlet grates. Storm sewer looks good. No further work needed.

Inspected By: Engle Date: 17-JUN-21

Signoff By:_____ Date: _____

Closed By: JOHNSON, FRED L Date: 29-JUN-21

SERVICE REQUEST REPORT

Service Request No.
2110928

2110928

Created Date: 06/28/2021 10:16 AM

WORK LOCATION

Address:995 BROAD ST Suite: 0014
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: DIST#0014 (E)**** TURNED OVER TO MATTHEW IN STORMWATER**** - american red cross called in and stated they had a diesel fuel spill and it went into the stormwater drain.

Requested Date: Crew :STOD2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:BAXTER, CIERRA Call Back Ready: N
Status: CANCELED Customer Call Back: N
WO/Task No: Finished Date:

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Taylor, Dill Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: (614) 432-7081 Ext: Home Phone:

Investigation 06282021-1

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2110928

2110928

Created Date: 06/28/2021 10:16 AM

CLOSEOUT INFORMATION

Start: 06/28/2021 10:19 AM Finish: 06/28/2021 10:36 AM Completed: Y

Failure: _____ Repair: _____ Further Action: _____

Comments: **** TURNED OVER TO MATTHEW IN STORMWATER****

Inspected By: Stoops, D Date: 28-JUN-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2108109 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2110919

2110919

Created Date: 06/28/2021 09:13 AM

WORK LOCATION

Address:309 ARCADIA AVE Suite: 0086
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YASSCLN - Assess need for cleaning.

Problem Description: DIST # 0086 (N). E Arcadia Ave & Deming Ave. ON-LINE REQUEST. Per Email from fire department:

Good Morning,

Over the last few duty days I have seen a person w ho I believe has some psychological issues dumping stuff into a “drains to a river” sew er near our station. Today w e opened the lid to take a look and see (see attached photo). I am just making you aw are of this. The location is just w est of the station 13 betw een the ramp and alley. It is on the south side of arcadia.

Respectfully submitted,

Lt. Luke F. Wendt
E-13, 3unit

Requested Date: Crew :OPDB1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:MAHALDERMAN Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: 2117874/01 Finished Date:

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2110919

2110919

Created Date: 06/28/2021 09:13 AM

CLOSEOUT INFORMATION

Start: 06/28/2021 09:24 AM Finish: 06/28/2021 10:23 AM Completed: Y

Failure: YDIRTY Repair: _____ Further Action:YCLEAN

Comments: Checked city assets cb's 0086T1355 & 1436 and found them needing to be cleaned. Talked to fire Dept. personal and told them of the findings.

Inspected By: Opdyke Date: 28-JUN-21

Signoff By: _____ Date: _____

Closed By: GRIFFITH, MICHAEL A Date: 16-JUL-21

DOCUMENTS AND PROCEDURES

Document ID	Document Type	Status	Revision	Last Update Date
311-135257	DOCUMENT	CREATED		

SERVICE REQUEST REPORT

Service Request No.
2111052

2111052

Created Date: 06/30/2021 08:42 AM

WORK LOCATION

Address:1265 MORSE RD Suite: 0299
Cross Street:MAIZE RD
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YUPFLOW - Flow from ground or structure.

Problem Description: DIST 299 (N) MH HAS SEWAGE OVERFLOWING IN PARKING LOT

Requested Date: Crew :SMIC Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:WHITE, JANICE L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 06/30/2021 10:00:00AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: JAY Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: (614) 402-7640 Ext: Home Phone:

Investigation 06302021-1

SERVICE REQUEST REPORT

Service Request No.
2111052

2111052

Created Date: 06/30/2021 08:42 AM

CLOSEOUT INFORMATION

Start: 06/30/2021 08:45 AM Finish: 06/30/2021 10:45 AM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:_____

Comments: YNCF/OPEN – Not city failure, the _8_ inch sanitary / sew er serving the problem location w as open and flow ing w hen checked. Checked upstream manhole #_0299s0244__ and dow nstream manhole #_0299s0243__. Tenant w as notified of findings by Investigator / THE PRIVATE GREASE TRAP AT 1265 MORSE RD WAS FOUND UPFLOW AT 845AM ON 6/30/2021 IT ALSO WAS GETTING INTO A PRIVATE 24INCH STORM SEWER AT REAR OF 1265 MORSE RD AND AT THIS TIME HAS NOT MADE IT TO CITY STORM SEWER ASSET (0299T0493) BOB LAMB FROM STORM WATER WAS NOTIFIED OF THIS ISSUE AND IS GOING TO ADVISE TENANT TO RESOLVE THEIR ISSUE.....Please refer to SRMS investigation report 06302021-1

Inspected By: SMITH/STEWART Date: 30-JUN-21

Signoff By:_____ Date: _____

Closed By: LAMB, ROBERT F Date: 30-JUN-21

SPECIFICATIONS

ID: 2108149 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2111052

2111052

Created Date: 06/30/2021 08:42 AM

SPECIFICATIONS

ID: 2108149 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
130	RECEIVING WATERWAY?	

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2111120

2111120

Created Date: 07/01/2021 08:59 AM

WORK LOCATION

Address: E COOKE RD
Suite:
Cross Street: INDIANOLA AVE
City:
State:
Zip:
Service Request Type: INVESTIGATE
Problem Code: Y311 - SMOC 311 SERVICE REQUEST

Problem Description: . EMAIL RCVD 6.29.21

ADENA BROOK FROM INDIANOLA TO COOKE ROAD LOOKS LIKE CHOCOLATE MILK TODAY. LOOKS LIKE THERE HAS BEEN SOME KIND OF CONTAMINATION SPILL. MARZETTI'S MAYBE? WHO DO WE CONTACT REGARDING CONTAMINATION IN THE CREEK?

Requested Date:
Crew :
Dept: SEWERMNT
Area: SEWERS
Next Approver:
Dispatcher: ALSMOOT
Call Back Ready: N
Status: CLOSED
Customer Call Back: N
WO/Task No:
Finished Date: 07/01/2021 09:20:33AM

CUSTOMER INFORMATION

Customer ID:
Bill Customer: N
Name:
Customer Call Back: N
Work Phone:
Ext:
Home Phone:
Company:
Tax ID:

REPORTED BY

Name: DAVIS, LIZ AND ERIC
Call Back: 0
Address: 501 OVERBROOK DR
Suite:
City: COLUMBUS
State: OH
Zip: 43214
Work Phone:
Ext:
Home Phone:

NOTES

NOTE: Keener referred the SR to the Stormwater group for Inspection review . IDDE had already responded to this a similar complaint earlier in the week. This was due to a Waterline break. No issue at this time. Kevin Wood 7-1-21

Investigation 06292021-3

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2111120

2111120

Created Date: 07/01/2021 08:59 AM

CLOSEOUT INFORMATION

Start: 07/01/2021 09:20 AM Finish: _____ Completed: _____

Failure: _____ Repair: _____ Further Action:_____

Comments: REFERRED TO STORMWATER INSPECTION NEW BMP / NEW BASINS / FOLLOW UP – Henry Rodriguez. Backlog Group YSTORM. Email referral path HERodriguez@columbus.gov – (CC) DMRepasky@columbus.gov

Inspected By: Keener Date: 01-JUL-21

Signoff By:_____ Date: _____

Closed By: JEFFREY KEENER Date: 01-JUL-21

CALL HISTORY

Call No: 2 Call Date: 07/01/2021 08:59:40AM

Comments: . EMAILED COPY OF REQUEST TO JANICE WHITE IN SEWERS AND DRAINS TO HAVE DISPATCHED
FROM: ZEIER, PATRICIA M.
SENT: THURSDAY, JULY 1, 2021 8:59 AM
TO: WHITE, JANICE L. <JLWHITE@COLUMBUS.GOV>
SUBJECT: POSSIBLE CONTAMINATION

Response: DEPARTMENTAL CONTACT

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

Call No: 1 Call Date: 07/01/2021 08:59:18AM

Comments: Service request type w as changed from POTENTIAL HAZARDOUS MATERIALS/ NON-EMERGENCY to SEWER/MISCELLANEOUS

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2111280

2111280

Created Date: 07/03/2021 04:32 PM

WORK LOCATION

Address:755 CHESTERFIELD RD Suite: 0096
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: DIST # 96 NEIGHBOR REPORTED THAT SOAPY WATER IS COMING FROM THE CURB GUTTER DRAIN HOLE AT 755 S. CHESTERFIELD RD

Requested Date: Crew :HARD1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:ADKINS, MELINDA L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 07/07/2021 08:30:51AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: UNKNOWN CITIZEN Call Back: N
Address:755 CHESTERFIELD RD Suite: 0096
City: State: Zip:
Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2111280

2111280

Created Date: 07/03/2021 04:32 PM

CLOSEOUT INFORMATION

Start: 07/03/2021 05:15 PM Finish: 07/03/2021 05:45 PM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: No evidence of soap in w ater coming from sump pump. No further action needed

Inspected By: Harman Date: 07-JUL-21

Signoff By:_____ Date: _____

Closed By: LINK, MICHAEL A Date: 13-JUL-21

SERVICE REQUEST REPORT

Service Request No.
2111280

2111280

Created Date: 07/03/2021 04:32 PM

WORK LOCATION

Address:755 CHESTERFIELD RD Suite: 0096
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: DIST # 96 NEIGHBOR REPORTED THAT SOAPY WATER IS COMING FROM THE CURB GUTTER DRAIN HOLE AT 755 S. CHESTERFIELD RD

Requested Date: Crew :HARD1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:ADKINS, MELINDA L Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 07/07/2021 08:30:51AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: UNKNOWN CITIZEN Call Back: N
Address:755 CHESTERFIELD RD Suite: 0096
City: State: Zip:
Work Phone: Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2111280

2111280

Created Date: 07/03/2021 04:32 PM

CLOSEOUT INFORMATION

Start: 07/03/2021 05:15 PM Finish: 07/03/2021 05:45 PM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: No evidence of soap in w ater coming from sump pump. No further action needed

Inspected By: Harman Date: 07-JUL-21

Signoff By:_____ Date: _____

Closed By: _____ Date: _____

SERVICE REQUEST REPORT

Service Request No.
2112689

2112689

Created Date: 07/27/2021 07:38 PM

WORK LOCATION

Address:999 STONEY CREEK RD Suite: 0450
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: DIST # 450 WEST CITIZEN REPORTS AN ASSET AT THE REAR OF HIS PROPERTY HAS GREEN STUFF COMING OUT OF IT. THE SUBSTANCE MAY GET INTO THE CREEK WHICH DUMPS INTO THE OLENTANGY RIVER. ASSET 0133

Requested Date: Crew :ALIL1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:ADKINS, MELINDA L Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 07/27/2021 11:18:29PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: OWENS, BILL Call Back: N
Address:999 STONEY CREEK RD Suite: 0450
City: State: Zip:
Work Phone: (614) 214-6236 Ext: Home Phone:

Investigation 07272021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2112689

2112689

Created Date: 07/27/2021 07:38 PM

CLOSEOUT INFORMATION

Start: 07/27/2021 07:42 PM Finish: 07/27/2021 08:56 PM Completed: Y

Failure: YCONT Repair: YSTANDBY Further Action:YNFI

Comments: Spoke with the resident/caller at 999 Stoney Creek Rd. He stated that he found some bluish green water flowing into the creek at the rear of his address. Upon further inspection, notified dispatch and F. Johnson III about findings. Dispatch called Stromwater investigator (Alex) to further determine the unknown liquid being dumped into the creek.

Inspected By: L. Ali Date: 27-JUL-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2109253 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2112757

2112757

Created Date: 07/28/2021 04:18 PM

WORK LOCATION

Address:5388 BYERS CIR W — Suite: 0453
Cross Street:
City: — State: — Zip:
Service Request Type: INVESTIGATE
Problem Code: YODOR - Bad odor inside or outside.

Problem Description: DIST # 453 NORTH AUTO PARTS STORE EMPLOYEE REPORTS A STRONG ODOR OF GASOLINE FROM THE SEWAGE VENT PIPE

Requested Date: — Crew: ROBA2 — Dept: SEWERMNT — Area: SEWERS
Next Approver:
Dispatcher: ADKINS, MELINDA L — Call Back Ready: N
Status: FINISHED — Customer Call Back: N
WO/Task No: — Finished Date: 07/28/2021 08:03:04PM

CUSTOMER INFORMATION

Customer ID: — Bill Customer: N
Name: — Customer Call Back: N
Work Phone: — Ext: — Home Phone:
Company: — Tax ID:

REPORTED BY

Name: BRITTENHAM, BILL — Call Back: N
Address:5388 BYERS CIR W — Suite: 0453
City: — State: — Zip:
Work Phone: (614) 888-3838 — Ext: — Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2112757

2112757

Created Date: 07/28/2021 04:18 PM

CLOSEOUT INFORMATION

Start: 07/28/2021 05:00 PM Finish: 07/28/2021 07:00 PM Completed: _____

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: YNCF/YBO1 - The 8 inch sanitary sewer serving the problem location was open and flowing when checked. Checked
upstream manhole #0453S0017 and downstream manhole # 0453S0019. There was no smell of gasoline in sewers, talked to mechanic shop behind the auto parts store they said they smelled nothing , said one of ther mechanics drained some old gas out of a truck in park lot into a propare container and deposed of it proparely, asset are no where near the garage.tried to call Tenant of findings

Inspected By: A. ROBERTS Date: 28-JUL-21

Signoff By:_____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2109260 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2112757

2112757

Created Date: 07/28/2021 04:18 PM

SPECIFICATIONS

ID: 2109260 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
130	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2113014

2113014

Created Date: 08/02/2021 12:05 PM

WORK LOCATION

Address:305 HARLAND DR Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: . CALLER STATES THAT THE RESIDENT HERE HAS OIL AND GASOLINE THAT IS FROM THE GARAGE AND ITS GOING ALL THE WAY DOWN THE DRIVEWAY INTO THE STREET.

STATES THAT HE STORES OIL IN THE GARGAE.

Requested Date: Crew :LINM1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SDGASTON Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 08/02/2021 12:48:47PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 08022021-2

Submitted by: MALINK

SERVICE REQUEST REPORT

Service Request No.
2113014

2113014

Created Date: 08/02/2021 12:05 PM

CLOSEOUT INFORMATION

Start: 08/02/2021 12:47 PM Finish: 08/02/2021 12:48 PM Completed: Y

Failure: _____ Repair: YNFWN Further Action:YNFAN

Comments: REFERRED TO STORMWATER/INVESTIGATION FOR FOLLOW UP – Potential illicit discharge to SMOC maintained Storm Sewer/Conveyance/Waterway. Investigator(s) J. Bowling responding. Backlog Group – YSTMPRE Email referral path: AEPinson@columbus.gov (CC) AMYakhnitskiy@columbus.gov ; DMRepasky@columbus.gov

Inspected By: LINK Date: 02-AUG-21

Signoff By: _____ Date: _____

Closed By: LINK, MICHAEL A Date: 02-AUG-21

SPECIFICATIONS

ID: 2109367 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2113073

2113073

Created Date: 08/03/2021 12:58 PM

WORK LOCATION

Address:305 SYLVAN AVE N Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: Y311 - SMOC 311 SERVICE REQUEST

Problem Description: *STORM WATER IN ROUTE..... CALLER STATES THERE IS A RV THAT PARKS ON THE SIDE OF THIS ADDRESS AND HAS AVOIDED CODE FOR AWHILE NOW BUT THEY ARE DUMPING STUFF INTO THE SEWERS AND NOW RESIDENT STATES SHE IS WORRIED DUE TO SEEING WHAT LOOKS LIKE WET DIRT RECENTLY - PLEASE CHECK

Requested Date: Crew : Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:AMMCCUNE Call Back Ready: N
Status: HELD Customer Call Back: N
WO/Task No: Finished Date:

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2113073

2113073

Created Date: 08/03/2021 12:58 PM

CLOSEOUT INFORMATION

Start: _____ Finish: _____ Completed: _____

Failure: _____ Repair: _____ Further Action: _____

Comments: RETURN FOR REASSIGNMENT – Forward to Code Enforcement - Stormwater reported no discharge found. RV does appear to be occupied.

Inspected By: LINK Date: 03-AUG-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2109401 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

CALL HISTORY

Call No: 2 Call Date: 08/30/2021 11:41:11AM

Comments: Service request type was changed from CODE/BOAT OR RV PARKED IN DRIVEWAY to 7A TO 3P PARKING VIOLATIONS/CITY STREET

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2113073

2113073

Created Date: 08/03/2021 12:58 PM

CALL HISTORY

Call No: 1 Call Date: 08/03/2021 03:40:20PM

Comments: Service request type w as changed from SEWER/MISCELLANEOUS to CODE/BOAT OR RV PARKED IN DRIVEWAY

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

09 AUG 2021
08:06 AM

Service Request No.
2113339

2113339

Created Date: 08/07/2021 11:29 AM

WORK LOCATION

Address:820 REYNOLDS AVE Suite: 0013
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: Dist.#: 13 - There has been a fire at a warehouse, sheen has spilled into a drain (or drains) C.F.D. wants a crew to come and look at it. This was reported by E.P.A. The Fire Dept. contact is Lt. Pettus, @: 614-221-3132, ext. 72120.

Requested Date: Crew: Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SCOTT, MARCIA R Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 08/09/2021 08:05:41AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Holmes, Chris Call Back: N
Address: E.P.A. Suite:
City: State: Zip:
Work Phone: (614) 935-6564 Ext: Home Phone:

Investigation 08072021-1

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2113339

2113339

Created Date: 08/07/2021 11:29 AM

CLOSEOUT INFORMATION

Start: 08/07/2021 11:40 AM Finish: 08/07/2021 04:00 PM Completed: Y

Failure: _____ Repair: _____ Further Action: _____

Comments: Refer to S.R.M.S. Investigation 07072021-1

Inspected By: lamb Date: 09-AUG-21

Signoff By: lamb Date: 09-AUG-21

Closed By: LAMB, ROBERT F Date: 09-AUG-21

SPECIFICATIONS

ID: 2109492 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2113612

2113612

Created Date: 08/11/2021 09:26 AM

WORK LOCATION

Address: 949 ELLSWORTH AVE Suite:
Cross Street:
City: State: Zip:
Service Request Type: INVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: Columbus Ave. ON-LINE REQUEST. I already filed a complaint and was contacted by city officials July 8, for a dangerous structure but nothing has been done. My nextdoor neighbors rent from a slumlord who had a sewer backup and decided to fix it himself. He dug a 6 ft hole that has been there for over 3 months in the back. Now the renters have to pump the backup from the basement into the street every day. SEWER BACKUP from a hose into a public street. This needs to be addressed as a public hazard with the OWNER.

Requested Date: Crew: LINM1 Dept: SEWERMNT Area: SEWERS
Next Approver:
Dispatcher: MAHALDERMAN Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 08/11/2021 10:13:45AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Mackay, Madison Call Back: 0
Address: 953 ELLSWORTH AVE Suite:
City: COLUMBUS State: OH Zip: 43206
Work Phone: (740) 262-6652 Ext: Home Phone:

NOTES

DESCRIPTION: Call back completed 08.11.21 M. Link. Verified correct address. Previous CCTV record shows lateral connection wye @ city ML OK. Resident next door stated code/county is aware of pit in back yard.

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2113612

2113612

Created Date: 08/11/2021 09:26 AM

CLOSEOUT INFORMATION

Start: 08/11/2021 10:05 AM Finish: 08/11/2021 10:06 AM Completed: Y

Failure: YPIPE FAIL Repair: YNFWN Further Action:YNFI

Comments: REFERRED TO STORMWATER/INVESTIGATION FOR FOLLOW UP – Potential illicit discharge to SMOC maintained Storm Sewer/Conveyance/Waterway. Investigator(s) J. Bowling contacted & en-route. Please call (614).645.8140 for follow-up during normal business hours. Backlog Group – YSTMPRE Email referral path: AEPinson@columbus.gov (CC) AMYakhnitskiy@columbus.gov ; DMRepasky@columbus.gov

Inspected By: LINK Date: 11-AUG-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2110618 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2113804

2113804

Created Date: 08/13/2021 12:35 PM

WORK LOCATION

Address:1275 PEGWOOD CT Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: . CALLER REPORTS THAT RESIDENTS OF THIS ADDRESS ARE CHANGING RADAITOR FLUID AND IT IS GOING INTO THE SEWER DRAINS. CALLER IS CONCERNED ABOUT ANIMALS CONSUMING FLUIDS. CALLER STATES THAT THERE IS NOTHING TO CATCH THE FLUIDS FROM VEHICLE.

Requested Date: Crew :LINM1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:TEMITCHELL Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 08/13/2021 01:42:29PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 08132021-1

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2113804

2113804

Created Date: 08/13/2021 12:35 PM

CLOSEOUT INFORMATION

Start: 08/13/2021 01:00 PM Finish: 08/13/2021 01:30 PM Completed: _____

Failure: _____ Repair: _____ Further Action: _____

Comments: No antifreeze in curbline or street. Refer to S.R.M.S. #08132021-1

Inspected By: lamb Date: 13-AUG-21

Signoff By: _____ Date: _____

Closed By: LAMB, ROBERT F Date: 13-AUG-21

SPECIFICATIONS

ID: 2110697 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

CALL HISTORY

Call No: 2 Call Date: 08/13/2021 12:45:55PM

Comments: . BASED ON RESPONSE CHANGED SWR TYPE FROM CONDITION OF STREET TO SEWER/MISCELLANEOUS,

Response: STATUS UPDATE

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2113804

2113804

Created Date: 08/13/2021 12:35 PM

CALL HISTORY

Call No: 1 Call Date: 08/13/2021 12:35:33PM

Comments: Service request type w as changed from CONDITION OF STREET to SEWER/MISCELLANEOUS

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2115084

2115084

Created Date: 08/30/2021 08:48 PM

WORK LOCATION

Address:1250 FENCEWAY DR Suite: 0372
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YASSCLN - Assess need for cleaning.

Problem Description: Dist.#: 372 - Her neighbors at 1250 A & B Fencew ay Dr., stuffed the drain in f/o that address w ith leaves. Ms. Mathew lives across the street.

Requested Date: Crew :ROBA2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SCOTT, MARCIA R Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 08/30/2021 11:21:39PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Mathew , Paula Call Back: N
Address:4729 MAIZE RD Suite:
City: State: Zip:
Work Phone: Ext: Home Phone: (614) 907-1106

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2115084

2115084

Created Date: 08/30/2021 08:48 PM

CLOSEOUT INFORMATION

Start: 08/30/2021 09:30 PM Finish: 08/30/2021 10:00 PM Completed: _____

Failure: YNYD Repair: YNFWN Further Action:YNFAN

Comments: ASSET #0372T0603, 0372T0606 WERE FREE OF DEBRIS WHEN ARRIVED IN FRONT OF 1250 FENCEWAY DR.

Inspected By: A. ROBERTS Date: 30-AUG-21

Signoff By:_____ Date: _____

Closed By: JOHNSON, FRED L Date: 01-SEP-21

SERVICE REQUEST REPORT

Service Request No.
2115491

2115491

Created Date: 09/03/2021 02:28 PM

WORK LOCATION

Address:2615 IMPERIAL WAY DR Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: Y311 - SMOC 311 SERVICE REQUEST

Problem Description: ****RETURN FOR REASSIGNMENT – Forw ard to Street Department SEWER AND DRAINS WENT OUT TO CHECK THIS, NO INLETS IN AREA OF STAIN ON THE ROAD. REFER TO STREETS.***. CALLER STATES THAT THE RESIDENT HERE IS LEAVING VEHICLE FLUIDS IN THE STREET AND WAITS FOR THE RAIN TO COME TO WASH THEM DOWN THE DRAINS. PLEASE CHECK AND ADVISE.

Requested Date: Crew : Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SDGASTON Call Back Ready: N
Status: HELD Customer Call Back: N
WO/Task No: Finished Date:

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2115491

2115491

Created Date: 09/03/2021 02:28 PM

CLOSEOUT INFORMATION

Start: 09/03/2021 03:33 PM Finish: _____ Completed: _____

Failure: _____ Repair: _____ Further Action: _____

Comments: NO SEWERS OR DRAINS NEAR "PUDDLE" REFERED BACK TO 311 FOR REASSIGNMENT.

Inspected By: GRASHEL Date: 03-SEP-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2111541 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

CALL HISTORY

Call No: 1 Call Date: 09/07/2021 03:30:02PM

Comments: Service request type was changed from SEWER/MISCELLANEOUS to CONDITION OF STREET

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2117071

2117071

Created Date: 09/24/2021 04:38 PM

WORK LOCATION

Address: E MAIN ST Suite:
Cross Street: S KELLNER RD
City: State: Zip:
Service Request Type INVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: . ON-LINE REQUEST. APPEARS TO BE GREASE BEING DUMPED INTO THE STORM DRAIN AT THE NORTHEAST CORNER OF EAST MAIN STREET & SOUTH KELLNER ROAD

Requested Date: Crew: GRAA1 Dept: SEWERMNT Area: SEWERS
Next Approver:
Dispatcher: SJSPARKS Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 09/24/2021 09:11:18PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Patrol, Community Call Back: 0
Address: 248 E 11TH AVE Suite:
City: COLUMBUS State: OH Zip: 43201
Work Phone: (614) 506-2888 Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2117071

2117071

Created Date: 09/24/2021 04:38 PM

CLOSEOUT INFORMATION

Start: 09/24/2021 05:27 PM Finish: 09/24/2021 06:00 PM Completed: _____

Failure: YDIRTY Repair: _____ Further Action:YNFAN

Comments: NO Script Available----Evidence of somebody dumping w hat appears to be used cooking oil into storm inlet at N/E/C of E. Main and S. Kellner. No action taken at time of inspection.

Inspected By: grashel Date: 24-SEP-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2113315 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

CALL HISTORY

Call No: 2 Call Date: 09/24/2021 04:38:56PM

Comments: . SWR TYPE FROM WATER/MISCELLANEOUS TO SEWER/MISCELLANEOUS

Response: STATUS UPDATE

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2117071

2117071

Created Date: 09/24/2021 04:38 PM

CALL HISTORY

Call No: 1 Call Date: 09/24/2021 04:38:49PM

Comments: Service request type w as changed from WATER/MISCELLANEOUS to SEWER/MISCELLANEOUS

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

27 SEP 2021
03:01 PM

Service Request No.
2117198

2117198

Created Date: 09/27/2021 11:43 AM

WORK LOCATION

Address:1722 LIVINGSTON AVE E Suite: 0035
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: ***REFERRED TO STORMWATER/INVESTIGATION FOR FOLLOW UP – Potential illicit discharge to SMOC maintained Storm Sewer/Conveyance/Waterway. Investigator(s) contacted. (614).645.8140 for follow-up during normal business hours. Backlog Group – YSTMPRE Email referral path: AMYakhnitskiy@columbus.gov ; DMRepasky@columbus.govDIST#0035 (E) - 311 request: ***BO'S AUTO SALES. CALLER STATES THIS COMPANY IS DUMPING OIL IN THE SEWER DRAINS - CURRENTLY CAN SEE AN OIL TRAIL FROM SHOP TO ALLEY - PLEASE INVESTIGATE

Requested Date: Crew :LIPE1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:AMMCCUNE Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 09/27/2021 02:41:10PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 09272021-2

Submitted by: AEPINSON

Oracle
Report s_rpt138 v 1912-1

SERVICE REQUEST REPORT

Service Request No.
2117198

2117198

Created Date: 09/27/2021 11:43 AM

CLOSEOUT INFORMATION

Start: 09/27/2021 12:16 PM Finish: _____ Completed: _____

Failure: _____ Repair: _____ Further Action: _____

Comments: REFERRED TO STORMWATER/INVESTIGATION FOR FOLLOW UP – Potential illicit discharge to SMOC maintained Storm Sewer/Conveyance/Waterway. Investigator(s) contacted. (614).645.8140 for follow-up during normal business hours. Backlog Group – YSTMPRE Email referral path: AMYakhnitskiy@columbus.gov ; DMRepasky@columbus.gov JERRY BOWLING notified In Route>

Inspected By: D. Martin Date: 27-SEP-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2113540 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2117193

2117193

Created Date: 09/27/2021 11:09 AM

WORK LOCATION

Address:146 HAGUE AVE S Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: . RESIDENT IS CALLING TO REPORT THAT THE PEOPLE AT THIS ADDRESS ARE EMPTING OUT THEIR CLORINATED POOL INTO THE ALLEY WHICH IS ALSO SPILLING OVER INTO NEIGHBORING PROPERTIES AS WELL AS. PLEASE INVESTIGATE.

Requested Date: Crew :SMIC Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:GTHENRY Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 09/27/2021 12:35:14PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2117193

2117193

Created Date: 09/27/2021 11:09 AM

CLOSEOUT INFORMATION

Start: 09/27/2021 12:00 PM Finish: 09/27/2021 01:00 PM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:_____

Comments: NOT A CITY ISSUE..TENANT IS DUMPING A SWIMMING POOL IN THEIR OWN YARD..NOT GETTING INTO ANY CITY STORM OR SANITARY.....

Inspected By: SMITH Date: 27-SEP-21

Signoff By:_____ Date: _____

Closed By: _____ Date: _____

SERVICE REQUEST REPORT

Service Request No.
2117071

2117071

Created Date: 09/24/2021 04:38 PM

WORK LOCATION

Address: E MAIN ST
Suite:
Cross Street: S KELLNER RD
City:
State:
Zip:
Service Request Type: INVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: . ON-LINE REQUEST. APPEARS TO BE GREASE BEING DUMPED INTO THE STORM DRAIN AT THE NORTHEAST CORNER OF EAST MAIN STREET & SOUTH KELLNER ROAD

Requested Date:
Crew: GRAA1
Dept: SEWERMNT
Area: SEWERS
Next Approver:
Dispatcher: SJSPARKS
Call Back Ready: N
Status: WORK ORDER
Customer Call Back: N
WO/Task No: 2127058/01
Finished Date: 09/24/2021 09:11:18PM

CUSTOMER INFORMATION

Customer ID:
Bill Customer: N
Name:
Customer Call Back: N
Work Phone:
Ext:
Home Phone:
Company:
Tax ID:

REPORTED BY

Name: Patrol, Community
Call Back: 0
Address: 248 E 11TH AVE
Suite:
City: COLUMBUS
State: OH
Zip: 43201
Work Phone: (614) 506-2888
Ext:
Home Phone:

Investigation 09282021-1

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2117071

2117071

Created Date: 09/24/2021 04:38 PM

CLOSEOUT INFORMATION

Start: 09/24/2021 05:27 PM Finish: 09/24/2021 06:00 PM Completed: _____

Failure: YDIRTY Repair: _____ Further Action:YNFAN

Comments: NO Script Available----Evidence of somebody dumping w hat appears to be used cooking oil into storm inlet at N/E/C of E. Main and S. Kellner. No action taken at time of inspection. Please refer to S.R.M.S. report 09282021-1

Inspected By: grashel Date: 24-SEP-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2113315 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

CALL HISTORY

Call No: 2 Call Date: 09/24/2021 04:38:56PM

Comments: . SWR TYPE FROM WATER/MISCELLANEOUS TO SEWER/MISCELLANEOUS

Response: STATUS UPDATE

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2117071

2117071

Created Date: 09/24/2021 04:38 PM

CALL HISTORY

Call No: 1 Call Date: 09/24/2021 04:38:49PM

Comments: Service request type w as changed from WATER/MISCELLANEOUS to SEWER/MISCELLANEOUS

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2117389

2117389

Created Date: 09/28/2021 07:56 PM

WORK LOCATION

Address: CLEVELAND AVE
Suite: 0088
Cross Street: HUDSON ST
City:
State:
Zip:
Service Request Type: INVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: DIST # 88 NORTH LT. PETTUS REPORTED AN AUTO ACCIDENT AT CLEVELAND AND E. HUDSON ST. WHICH CAUSED A 30 TO 40 GALLON TRANSFORMER OIL SPILL INTO THE STORM. EPA CONTACTED. STORM CREW CALLED.

Requested Date:
Crew :
Dept: SEWERMNT
Area: SEWERS
Next Approver:
Dispatcher: ADKINS, MELINDA L
Call Back Ready: N
Status: CLOSED
Customer Call Back: N
WO/Task No:
Finished Date: 10/19/2021 08:32:58AM

CUSTOMER INFORMATION

Customer ID:
Bill Customer: N
Name:
Customer Call Back: N
Work Phone:
Ext:
Home Phone:
Company:
Tax ID:

REPORTED BY

Name: LT. PETTUS - CFD
Call Back: N
Address: CLEVELAND AVE
Suite: 0088
City:
State:
Zip:
Work Phone:
Ext:
Home Phone:

Investigation 09282021-2

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2117389

2117389

Created Date: 09/28/2021 07:56 PM

CLOSEOUT INFORMATION

Start: 09/28/2021 08:01 PM Finish: _____ Completed: _____

Failure: _____ Repair: _____ Further Action: _____

Comments: Forwarded to Stormwater. Please refer to S.R.M.S. report 09282021-2

Inspected By: _____ Date: _____

Signoff By: _____ Date: _____

Closed By: LAMB, ROBERT F Date: 19-OCT-21

SPECIFICATIONS

ID: 2113548 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2117388

2117388

Created Date: 09/28/2021 07:46 PM

WORK LOCATION

Address:229 GREEN SPRINGS DR Suite: 0977
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: DIST # 977 NORTH CARPET CLEANING COMPANY DISCHARGING INTO THE STORM

Requested Date: Crew : Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:ADKINS, MELINDA L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 10/26/2021 02:28:10PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: RAPASKY, MATT Call Back: N
Address:229 GREEN SPRINGS DR Suite: 0977
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 09292021-1

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2117388

2117388

Created Date: 09/28/2021 07:46 PM

CLOSEOUT INFORMATION

Start: 10/26/2021 02:28 PM Finish: _____ Completed: _____

Failure: _____ Repair: _____ Further Action: _____

Comments: Please refer to S.R.M.S. 09292021-1

Inspected By: Lamb Date: 26-OCT-21

Signoff By: _____ Date: _____

Closed By: LAMB, ROBERT F Date: 26-OCT-21

SPECIFICATIONS

ID: 2113547 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2117483

2117483

Created Date: 09/29/2021 03:07 PM

WORK LOCATION

Address:29 FREDERICK ST Suite: 0005
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YUPFLOW - Flow from ground or structure.

Problem Description: Dist.#: 5 - There is sewage coming from a drain in a private parking lot, flowing into the city sewer.

Requested Date: Crew :NAGD1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SCOTT, MARCIA R Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: 2127180/01 Finished Date:

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Koetz, John Call Back: N
Address:29 FREDERICK ST Suite: 0005
City: State: Zip:
Work Phone: (614) 443-0533 Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2117483

2117483

Created Date: 09/29/2021 03:07 PM

CLOSEOUT INFORMATION

Start: 09/29/2021 03:30 PM Finish: 09/29/2021 04:00 PM Completed: _____

Failure: YNCF Repair: YNOWORKFND Further Action:YCLEAN

Comments: AT LOCATION, THE UPFLOW WAS COMING FROM THE SERVICE LINE TO 961 S HIGH ST (GRESSO'S) , THE CITY SEWER WAS FOUND OPEN AND FLOWING. WE DID INFORM GRESSO'S OF OUR FINDINGS AND INFORMED THEM THAT THEIR SERVICE LINE WOULD NEED TO BE CLEANED. WE HAD POWER CLEANING WASH DOWN THE CURB LINE

Inspected By: NAGY Date: 29-SEP-21

Signoff By:_____ Date: _____

Closed By: GRIFFITH, MICHAEL A Date: 16-NOV-21

SPECIFICATIONS

ID: 2113551 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2117483

2117483

Created Date: 09/29/2021 03:07 PM

SPECIFICATIONS

ID: 2113551 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
130	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2117658

2117658

Created Date: 10/01/2021 10:55 AM

WORK LOCATION

Address: PETZINGER RD
Suite: 0099
Cross Street: COLLEGE AVE
City:
State:
Zip:
Service Request Type: INVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: Dist.#: 99 - In the process of putting out a fire, a lot of foam went into the drain at this location. They have notified E.P.A.

Requested Date:
Crew: LIPE1
Dept: SEWERMNT
Area: SEWERS
Next Approver:
Dispatcher: SCOTT, MARCIA R
Call Back Ready: N
Status: FINISHED
Customer Call Back: N
WO/Task No:
Finished Date: 10/01/2021 01:21:25PM

CUSTOMER INFORMATION

Customer ID:
Bill Customer: N
Name:
Customer Call Back: N
Work Phone:
Ext:
Home Phone:
Company:
Tax ID:

REPORTED BY

Name: Montecalvo
Call Back: N
Address: C.F.D.
Suite:
City:
State:
Zip:
Work Phone: (614) 221-2345
Ext:
Home Phone:

Investigation 10012021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2117658

2117658

Created Date: 10/01/2021 10:55 AM

CLOSEOUT INFORMATION

Start: 10/01/2021 11:15 AM Finish: 10/01/2021 12:00 PM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:_____

Comments: w aan't a city inlet belongs to the state (ODOT).

Inspected By: elipscomb m boyd Date: 01-OCT-21

Signoff By:_____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2113563 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2118247

2118247

Created Date: 10/08/2021 04:06 PM

WORK LOCATION

Address: OLD DUBLIN RD Suite: 0080
Cross Street: TRABUE RD
City: State: Zip:
Service Request Type INVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: DIST # 80 NORTHWEST MOTOR OIL SPILL OF AN UNKNOWN AMOUNT IN THE MILLIKEN DITCH
SWIR #10082021-2

Requested Date: Crew :CLAM2 Dept: SEWERMNT Area: SEWERS
Next Approver:
Dispatcher: ADKINS, MELINDA L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 10/11/2021 09:38:57AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: HARIFF, BEN (EPA) Call Back: N
Address: OLD DUBLIN RD Suite: 0080
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 10082021-2

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2118247

2118247

Created Date: 10/08/2021 04:06 PM

CLOSEOUT INFORMATION

Start: 10/08/2021 04:28 PM Finish: _____ Completed: _____

Failure: _____ Repair: _____ Further Action: _____

Comments: Please refer to S.R.M.S. report number 10082021-2

Inspected By: _____ Date: _____

Signoff By: _____ Date: _____

Closed By: LAMB, ROBERT F Date: 19-OCT-21

SPECIFICATIONS

ID: 2114006 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2118535

2118535

Created Date: 10/13/2021 08:20 AM

WORK LOCATION

Address:1814 ROBERT ST Suite: 0130
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: . PER VOICEMAIL - A MAN AT THIS ADDRESS CONTINUES TO WASH INDUSTRIAL PAINTING EQUIPMENT INTO THE STREET GUTTERS. THIS HAS BEEN GOING ON FOR QUITE SOME TIME.

Requested Date: Crew :VERS1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:CABURKE Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 10/13/2021 09:48:14AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: HOLTSMAN, WILLIAM Call Back: 1
Address: Suite:
City: State: Zip:
Work Phone: (614) 806-2717 Ext: Home Phone:

Investigation 10132021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2118535

2118535

Created Date: 10/13/2021 08:20 AM

CLOSEOUT INFORMATION

Start: 10/13/2021 08:30 AM Finish: 10/13/2021 09:40 AM Completed: Y

Failure: YCONT Repair: YNFWN Further Action:YNFAN

Comments: EVIDENCE OF DUMPING IN FRONT OF COMPLAINT ADDRESS GRAVEL DEBRIS LOOKS LIKE IT STOPPED ANY FLOW TO THE STORM SEWER, SENT S.R. TO JERRY BOWLING IN STORM WATER FOR FOLLOW UP INVESTIGATION. REF to Storm w ater IR#10132021-1

Inspected By: VERHAGE/STEWART Date: 13-OCT-21

Signoff By:_____ Date: _____

Closed By: MARTIN, DARRELL W Date: 14-OCT-21

SPECIFICATIONS

ID: 2114016 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2118926

2118926

Created Date: 10/18/2021 11:43 AM

WORK LOCATION

Address:813 BRYDEN RD Suite: 0015
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YWIB - Water in Basement (drain backup).

Problem Description: Caller States that Sewer is backing up in Basement.

Requested Date: Crew :BOYM1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:MARTIN, DARRELL W Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 10/18/2021 01:49:14PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Derrick, Showell Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone: (614) 592-9311

Investigation 10182021-1

SERVICE REQUEST REPORT

Service Request No.
2118926

2118926

Created Date: 10/18/2021 11:43 AM

CLOSEOUT INFORMATION

Start: 10/18/2021 12:00 PM Finish: 10/18/2021 01:15 PM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:_____

Comments: YNCF/OPEN – Not city failure, the 15 inch combination sewer serving the problem location was open and flowing when checked. Checked upstream manhole #C0280 and downstream manhole #C0279 Tenant was notified of findings by investigator . NOTIFIED STORM WATER. Please refrer to S.R.M.S. report #10182021-1

Inspected By: MBOYD/ELIPSCOMB Date: 18-OCT-21

Signoff By:_____ Date: _____

Closed By: LAMB, ROBERT F Date: 19-OCT-21

SPECIFICATIONS

ID: 2114432 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2118926

2118926

Created Date: 10/18/2021 11:43 AM

SPECIFICATIONS

ID: 2114432 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
130	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2119784

2119784

Created Date: 10/27/2021 03:47 PM

WORK LOCATION

Address:2061 EDEN AVE Suite: 0301
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YUPFLOW - Flow from ground or structure.

Problem Description: DIST: 301 N- CALLED SAID WE WHERE OUT THERE NOT TO LONG AGO FOR THE SAME REASON SUMP PUMP PUMPING SEWAGE OUT TO STRRET SAID WE DID CLEAN UP AND GAVE WARNING TO TENAT

Requested Date: Crew :NAGD1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:STEWART, STACY O Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 10/27/2021 11:22:14PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: ANDREW, SHAY Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: (614) 458-8661 Ext: Home Phone:

Investigation 10272021-1

SERVICE REQUEST REPORT

Service Request No.
2119784

2119784

Created Date: 10/27/2021 03:47 PM

CLOSEOUT INFORMATION

Start: 10/27/2021 04:00 PM Finish: 10/27/2021 04:45 PM Completed: _____

Failure: YNCF Repair: YNOWORKFND Further Action:YNFAN

Comments: YNCF/OPEN – Not city failure, the 8 inch sanitary / combination / storm sewer serving the problem location was open and flowing when checked. Checked upstream manhole # 0301S0189 and downstream manhole # 0301S0190. Tenant was notified of findings by investigator / phone / note. Please refer to S.R.M.S. report number 10272021-1

Inspected By: NAGY Date: 27-OCT-21

Signoff By:_____ Date: _____

Closed By: LAMB, ROBERT F Date: 28-OCT-21

SPECIFICATIONS

ID: 2114880 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2119784

2119784

Created Date: 10/27/2021 03:47 PM

SPECIFICATIONS

ID: 2114880 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
130	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2119900

2119900

Created Date: 10/28/2021 04:36 PM

WORK LOCATION

Address:1495 FULLEN RD Suite: 0373
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: . CALLER STATES THAT THERE IS A BLACK FORDE EDGE THAT IS LEAKING GAS IN THE STREET.

Requested Date: Crew :ROBA2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SDGASTON Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 10/28/2021 07:53:13PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2119900

2119900

Created Date: 10/28/2021 04:36 PM

CLOSEOUT INFORMATION

Start: 10/28/2021 04:59 PM Finish: 10/28/2021 05:45 PM Completed: _____

Failure: YNCF Repair: _____ Further Action:YNFAN

Comments: No Script - Called fire department & the fire department w ent out to take care of the issue. No liquid got in the storm sew er at the time of investigation.

Inspected By: A. Roberts/F. Johnson Date: 28-OCT-21

Signoff By: _____ Date: _____

Closed By: MARTIN, DARRELL W Date: 29-OCT-21

SERVICE REQUEST REPORT

Service Request No.
2120353

2120353

Created Date: 11/03/2021 04:01 PM

WORK LOCATION

Address:2232 SEVERHILL DR Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: .
CALLER STATES A POOL COMPANY CAME OUT AND EMPTIED THE POOL AT THIS ADDRESS INTO THE SEWER DRAIN. IS THIS PERMISSABLE

Requested Date: Crew : Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:MLBOONE Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 11/04/2021 03:07:17PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2120353

2120353

Created Date: 11/03/2021 04:01 PM

CLOSEOUT INFORMATION

Start: 11/03/2021 04:54 PM Finish: 11/04/2021 03:05 PM Completed: _____

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: I w ent to the job site and didnt see anything .per bob lamb : If pool is dechlorinated and follow s Columbus Public Health Guidelines then it is a permissible discharge

Inspected By: shiplet Date: 04-NOV-21

Signoff By:_____ Date: _____

Closed By: SHIPLET, JACOB P Date: 04-NOV-21

SERVICE REQUEST REPORT

Service Request No.
2120322

2120322

Created Date: 11/03/2021 09:26 AM

WORK LOCATION

Address:3609 WESTERVILLE RD Suite: 0236
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YFLOOD - Flooding, surface water.

Problem Description: DIST # 236 WATER PUMPING OUT OF AN ORANGE PIPE SEEMS TO BE UNDER PRESSURE COMING OUT ONTO THE GROUND
THIS IS A TRAILER PARK PROBLEM LOCATION IS 1ST ST. WEST OFF WESTERVILLE RD GO PAST 3RD ST SECOND TRAILER ON THE LEFT MARKED F - 23 NORTH OF INNIS SOUTH OF FERRIS

Requested Date: Crew :STES1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:VERHAGE, SANDY L Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 11/03/2021 11:50:07AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: BUSS, KELLEN Call Back: N
Address:3609 WESTERVILLE RD Suite: 0236
City: State: Zip:
Work Phone: (419) 357-9091 Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2120322

2120322

Created Date: 11/03/2021 09:26 AM

CLOSEOUT INFORMATION

Start: 11/03/2021 10:30 AM Finish: 11/03/2021 11:30 AM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: THIS WAS NOT A CITY SEWER RELATED ISSUE NO CITY SEWER'S NEED TO BE CHECKED. I TALKED WITH MANAGER ABOUT PROBLEM AND INFORMED HIM THE CITY HAS NO SEWER'S LOCATED IN FRONT ON F23 TRAILER AND THAT HE MIGHT NEED TO CALL PERMITS TO SEE WHAT THE 4"-5" CLAY PIPE MIGHT BE THAT IS FORCE WATER OUT OF. MANGER HAD WATER TESTED FOR SEWAGE AND CAME BACK NEGATIVE. NO CITY ASSETS CHECKED

Inspected By: STEWART Date: 03-NOV-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SERVICE REQUEST REPORT

Service Request No.
2120800

2120800

Created Date: 11/09/2021 02:46 PM

WORK LOCATION

Address:4048 NILE AVE Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: Y311 - SMOC 311 SERVICE REQUEST

Problem Description: REFERRED TO STORMWATER/INVESTIGATION FOR FOLLOW UP – Potential illicit discharge to SMOC maintained Storm Sewer/Conveyance/Waterway. Investigator(s) contacted. (614).645.8140 for follow-up during normal business hours. Backlog Group – YSTMPRE Email referral path: AMYakhnitskiy@columbus.gov ; DMRepasky@columbus.gov WHERE NILE MEETS POTOMAC STREET. PER EMAIL - IS THERE ANYTHING THAT CAN BE DONE ABOUT A NEIGHBOR WHOS CAR LEAKS A MASSIVE AMOUNT OF OIL? THERE IS AN OIL PUDDLE THE SIZE OF A CAR IN FRONT OF THEIR HOUSE AND IT JUST LOOKS TERRIBLE. THEY ARE AT 4048 NILE AVENUE. I SAW YESTERDAY THAT THERE IS AN ACTUAL OIL TRAIL THROUGH THE NEIGHBORHOOD STREETS TO THEIR PARKING SPOT. THAT IS HOW BAD IT IS.
*****11/09/2021 PER RESPONSE FROM ROW I, "PLEASE REASSIGN TO THE STORM WATER POLITION SECTION OF SEWERS AND DRAINS - BELIEVE THEY HAVE AUTHORITY TO ADDRESS THIS ISSUE"

Requested Date: Crew: Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:MLBOONE Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date:

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 11102021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2120800

2120800

Created Date: 11/09/2021 02:46 PM

CLOSEOUT INFORMATION

Start: _____ Finish: _____ Completed: _____

Failure: _____ Repair: _____ Further Action: _____

Comments: REFERRED TO STORMWATER/INVESTIGATION FOR FOLLOW UP – Potential illicit discharge to SMOC maintained Storm Sewer/Conveyance/Waterway. Investigator(s) contacted. (614).645.8140 for follow-up during normal business hours. Backlog Group – YSTMPRE Email referral path: AMYakhnitskiy@columbus.gov ; DMRepasky@columbus.gov

Inspected By: _____ Date: _____

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

CALL HISTORY

Call No: 3 Call Date: 11/09/2021 04:11:34PM

Comments: Service request type was changed from SEWER/MISCELLANEOUS to WATER/MISCELLANEOUS

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

Call No: 2 Call Date: 11/09/2021 02:46:56PM

Comments: . BASED ON RESPONSE, SERVICE REQUEST TYPE CHANGED FROM CONDITION OF STREET TO SEWER/MISCELLANEOUS,

Response: STATUS UPDATE

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2120800

2120800

Created Date: 11/09/2021 02:46 PM

CALL HISTORY

Call No: 1 Call Date: 11/09/2021 02:46:48PM

Comments: Service request type w as changed from CONDITION OF STREET to SEWER/MISCELLANEOUS

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2121621

2121621

Created Date: 11/22/2021 08:58 AM

WORK LOCATION

Address:128 WAYNE AVE N Suite: 0046
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YUPFLOW - Flow from ground or structure.

Problem Description: UPFLOW IN THE REAR OF 128 N WAYNE AVE

Requested Date: Crew :FUCD1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SMITH, CHRIS A Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: 2132321/01 Finished Date: 11/22/2021 11:55:33AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: STEVE, BEATTY Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone: (614) 546-5262

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2121621

2121621

Created Date: 11/22/2021 08:58 AM

CLOSEOUT INFORMATION

Start: 11/22/2021 09:00 AM Finish: 11/22/2021 12:00 PM Completed: Y

Failure: YNCF Repair: _____ Further Action:YCCTV

Comments: YNCF/OPEN – Not city failure, the _8_ inch sanitary sewer serving the problem location was open and flowing when checked. Checked upstream manhole #_0046s0175__ and downstream manhole #_0046s0174__. Tenant was notified of findings by Investigator
YINSP/CCTV - The 8__ inch sanitary sewer needs to be televised between upstream manhole # 0046s0175___ and downstream manhole # _0046s0174__ to determine condition of sewer connection @ 128 n wayne___. Tenant was notified of findings by investigator
operator please notify tenant / investigator: smith sr___ of findings upon completion of task .this was a private service line for 128 n. wayne ave discharging into alley way.. storm water (jerry bowling) was on site...

Inspected By: smith/fuchs Date: 22-NOV-21

Signoff By:_____ Date: _____

Closed By: GRIFFITH, MICHAEL A Date: 23-NOV-21

SPECIFICATIONS

ID: 2115957 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
5	CHECKED FROM STRUCTURE #	
10	CHECKED TO STRUCTURE #	
15	CAUSE = GREASE Y	
20	CAUSE = ROOTS Y	
25	CAUSE = DEBRIS Y	
30	CAUSE = SURCHARGED Y	
35	CAUSE = OTHER	
40	CAUSE = UNKNOWN Y	Y
45	OPEN V=VAC R=ROD H=HAND	
50	TENANT WATER DRAINED Y	
55	TENANT NOTIFIED?	
60	WORK SEQUENCE	
65	CLEAN FROM #	
70	CLEAN TO #	
75	TV FROM #	
80	TV TO #	
85	DESIGNED SEWER RELIEF - DSR #	
90	STRUCTURE OVERFLOWED #	
95	MH # - UPSTREAM OF BLOCKAGE	
100	MH # - DOWNSTREAM OF BLOCKAGE	
105	OVERFLOW AFFECTED AREA?	
110	SUMP PUMP ADDRESS	
115	SECURE 1=SIGN 2=HANGER 3=OTHER	

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Created Date: 11/22/2021 08:58 AM

Service Request No.
2121621

2121621

SPECIFICATIONS

ID: 2115957 *Category:* DOSD WORK DAT *Type:* SMNT_EVENT *Title:* WIB - MSS AND SSO - CSO DATA

Seq. No	*Attribute*	*Value*
120	TIME/DATE OVERFLOW STOPPED	
125	RECEIVING STRUCTURE #	
130	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2121609

2121609

Created Date: 11/22/2021 06:37 AM

WORK LOCATION

Address:5021 FRANCISCO PL Suite: 0295
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YASSCLN - Assess need for cleaning.

Problem Description: . MOBILE REQUEST. Homeow ner w as shoveling his leaves and stuffing them dow n into the catch basin.

Requested Date: Crew :SMIC Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SJSPARKS Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: 2132309/01 Finished Date: 11/22/2021 09:49:16AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: O'Donnell, Michael Call Back: 0
Address: 5008 GETTYSBURG RD Suite:
City: COLUMBUS State: OH Zip: 43220
Work Phone: (614) 558-3731 Ext: Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2121609

2121609

Created Date: 11/22/2021 06:37 AM

CLOSEOUT INFORMATION

Start: 11/22/2021 08:00 AM Finish: 11/22/2021 09:30 AM Completed: Y

Failure: YDIRTY Repair: _____ Further Action:YCLEAN

Comments: YFLOOD/PC/CLN- The water had receded @ time of investigation. The flooding at this location was caused by excessive debris.
The CB/INLET #_0295t0489__ @ _N/W corner of Francisco rd & Francisco place__, CB ___ need(s) to be cleaned with the leads shot by
Power Cleaning ASAP

Inspected By: fuchs Date: 22-NOV-21

Signoff By:_____ Date: _____

Closed By: GRIFFITH, MICHAEL A Date: 24-NOV-21

SERVICE REQUEST REPORT

Service Request No.
2121818

2121818

Created Date: 11/26/2021 10:56 AM

WORK LOCATION

Address:976 KYLE AVE — Suite: 0202
Cross Street:
City: — State: — Zip:
Service Request Type: INVESTIGATE
Problem Code: Y311 - SMOC 311 SERVICE REQUEST

Problem Description: . WHITE TRUCK SITTING HERE ON THE STREET. LEAKING OIL INTO THE ROADWAY. PLEASE CHECK AND ADVISE.

Requested Date: — Crew :STOD2 — Dept: SEWERMNT — Area: SEWERS
Next Approver:
Dispatcher: SDGASTON — Call Back Ready: N
Status: FINISHED — Customer Call Back: N
WO/Task No: — Finished Date: 11/26/2021 02:58:52PM

CUSTOMER INFORMATION

Customer ID: — Bill Customer: N
Name: — Customer Call Back: N
Work Phone: — Ext: — Home Phone:
Company: — Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION — Call Back: 0
Address: — Suite:
City: — State: — Zip:
Work Phone: — Ext: — Home Phone:

Investigation 11262021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2121818

2121818

Created Date: 11/26/2021 10:56 AM

CLOSEOUT INFORMATION

Start: 11/26/2021 01:45 PM Finish: 11/26/2021 02:45 PM Completed: Y

Failure: _____ Repair: _____ Further Action: _____

Comments: No Asset. White Chevy truck in front of address leaking small amount of oil. Talked to resident who knows owner of truck (not home) instructed to move truck in driveway or catch oil. Placed oil dry to clean up existing oil. Not getting into storm sewers.

Inspected By: Stoops, D. Claypool, M. Date: 26-NOV-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

CALL HISTORY

Call No: 2 Call Date: 11/26/2021 02:52:28PM

Comments: Service request type was changed from CONDITION OF STREET to WATER/MISCELLANEOUS

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

Call No: 1 Call Date: 11/26/2021 01:18:57PM

Comments: Service request type was changed from SEWER/MISCELLANEOUS to CONDITION OF STREET

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2121964

2121964

Created Date: 11/29/2021 01:47 PM

WORK LOCATION

Address:5793 MORNINGSTAR DR Suite: 0280
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: . CALLER STATES THAT SOMEONE HAS DUMPED GREASE IN THE SEWER BY THIS ADDRESS, SE CORNER, NOT FROM THIS ADDRESS, PLEASE CHECK

Requested Date: Crew :SMIC Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:MLODACHOWSKI Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 11/30/2021 08:19:25AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: STAZZONE, ALDINO & SHARON Call Back: 0
Address: 5793 MORNINGSTAR DR Suite:
City: COLUMBUS State: OH Zip: 43119
Work Phone: Ext: Home Phone:

Investigation 11302021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2121964

2121964

Created Date: 11/29/2021 01:47 PM

CLOSEOUT INFORMATION

Start: 11/30/2021 07:30 AM Finish: 11/30/2021 08:30 AM Completed: Y

Failure: YCONT Repair: _____ Further Action:YREQST

Comments: FOUND GREASE THAT WAS POURED INTO STORM SEWER INLET (0280T3481) OPENED UP STORM GRATE AND FOUND THAT IS WAS CONTAINED TO STORM INLET..CALLED JERRY BOWLING FROM STORM WATER TO TAKE OVER OF INVESTIGATION...

Inspected By: SMITH Date: 30-NOV-21

Signoff By:_____ Date: _____

Closed By: SHIPLET, JACOB P Date: 07-DEC-21

SERVICE REQUEST REPORT

Service Request No.
2122301

2122301

Created Date: 12/02/2021 02:53 PM

WORK LOCATION

Address: zzz-see description
Suite: 0479
Cross Street: WINDING PATH DR
City:
State:
Zip:
Service Request Type: INVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: DIST 479 (E) AT THE DEAD END OF AUTUMN JOY AVE BEHIND THE HOUSES ON WINDING PATH DR A CONTRACTOR CALLED BEHELEER EXCAVATING INC DUMPED SEWAGE (STORM WATER) THEY CLEANED FROM THE SEWER IN THE VACANT FIELDS AT CORNER OF

Requested Date:
Crew: ROBA2
Dept: SEWERMNT
Area: SEWERS
Next Approver:
Dispatcher: WHITE, JANICE L
Call Back Ready: N
Status: CLOSED
Customer Call Back: N
WO/Task No:
Finished Date: 12/02/2021 06:16:24PM

CUSTOMER INFORMATION

Customer ID:
Bill Customer: N
Name:
Customer Call Back: N
Work Phone:
Ext:
Home Phone:
Company:
Tax ID:

REPORTED BY

Name: ANONYMOUS
Call Back: N
Address:
Suite:
City:
State:
Zip:
Work Phone:
Ext:
Home Phone:

SERVICE REQUEST REPORT

Service Request No.
2122301

2122301

Created Date: 12/02/2021 02:53 PM

CLOSEOUT INFORMATION

Start: 12/02/2021 03:30 PM Finish: 12/02/2021 05:30 PM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: NO SCRIPT AVAILABLE : TALK TO COMPLAINT CUSTOMER SHE SAID CONTRACTOR WAS DIGGING IN A DITCH LINE AND DUMPING THE DIRT GRASS IN WOODED FIELD THINKING IT WAS SEWAGE AND IT JUST DIRT AND GRASS NO SEWAGE FOUND

Inspected By: A. ROBERTS Date: 02-DEC-21

Signoff By:_____ Date: _____

Closed By: SHIPLET, JACOB P Date: 07-DEC-21

SERVICE REQUEST REPORT

Service Request No.
2122598

2122598

Created Date: 12/06/2021 05:09 PM

WORK LOCATION

Address:5892 EFFINGHAM RD Suite: 0316
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YOTHP - Other problem not in codes.

Problem Description: Dist.#: 316 - One of Mr. Bricker's neighbors is blowing his leaves into a straight line in his yard. The wind is taking the leaves into the street, where they are landing at the curb and going into the storm drain. He asked the neighbor to clean the leaves from the drain, the neighbor refused.

Requested Date: Crew :ROBA2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SCOTT, MARCIA R Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 12/06/2021 11:10:40PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: Bricker, Peter Call Back: N
Address:5892 EFFINGHAM RD Suite: 0316
City: State: Zip:
Work Phone: Ext: Home Phone: (614) 378-3107

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2122598

2122598

Created Date: 12/06/2021 05:09 PM

CLOSEOUT INFORMATION

Start: 12/06/2021 09:00 PM Finish: 12/06/2021 10:30 PM Completed: _____

Failure: YDIRTY Repair: YHNDCLND Further Action:YNFAN

Comments: NO AVAILABLE SCRIPT : CLEAN DEBRIS OFF STRUCTURE #0316T0132 BY HAND

Inspected By: A. ROBERTS Date: 06-DEC-21

Signoff By:_____ Date: _____

Closed By: SHIPLET, JACOB P Date: 13-DEC-21

SERVICE REQUEST REPORT

Service Request No.
2123368

2123368

Created Date: 12/15/2021 06:35 PM

WORK LOCATION

Address:153 14TH AVE Suite: 0053
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: DIST # 53 NORTH CITIZEN REPORTED A POSSIBLE ILLEGAL DUMPING INTO A POSSIBLE PRIVATE SEWER. PLEASE CHECK NEARBY CITY SANITARY

Requested Date: Crew :STOD2 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:ADKINS, MELINDA L Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 12/16/2021 01:06:49PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: UNKNOWN Call Back: N
Address:153 14TH AVE Suite: 0053
City: State: Zip:
Work Phone: (740) 601-8334 Ext: Home Phone:

Investigation 12162021-1

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2123368

2123368

Created Date: 12/15/2021 06:35 PM

CLOSEOUT INFORMATION

Start: 12/16/2021 09:30 AM Finish: 12/16/2021 09:50 AM Completed: Y

Failure: YNCF Repair: YNFWN Further Action:YNFAN

Comments: Refer to stormwater report # 12162021-1. Talked to the caller and he stated that it was actually a plumbing company snaking the service line for the building. Went to location and convirmed there was no illegal dumping. Stacey Stewart in complaints checked the combination sewer serving this location and it was open and flowing.

Inspected By: D. Stoops, B. Lamb, S. Stewart Date: 16-DEC-21

Signoff By: _____ Date: _____

Closed By: _____ Date: _____

SPECIFICATIONS

ID: 2117235 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2123352

2123352

Created Date: 12/15/2021 03:44 PM

WORK LOCATION

Address:2154 JEWETT DR Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: Y311 - SMOC 311 SERVICE REQUEST

Problem Description: JEWETT DR & MAPLE CANYON AVE. *** VEHICLE LEAKING FLUIDS ON STREET

CALLER STATES THERE IS SILVER HYUNDAI TUCSON WITH MISSING PLATES AND EXTENSIVE FRONT BODY DAMAGE; STATES VEHICLE IS NOT DRIVEABLE AND HAS NOT MOVED FROM NEAR THIS ADDRESS FOR AT LEAST 2 WKS NOW; PLEASE INVESTIGATE; THANK YOU.

*** VEHICLE ALSO REPORTED TO IMPOUND AS ABANDONED

Requested Date: Crew : Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:GIMARTINEZ Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 12/15/2021 09:25:48PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: NO CUSTOMER INFORMATION Call Back: 0
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 12162021-2

Submitted by: AEPINSON

SERVICE REQUEST REPORT

Service Request No.
2123352

2123352

Created Date: 12/15/2021 03:44 PM

CLOSEOUT INFORMATION

Start: 12/15/2021 09:20 PM Finish: 12/15/2021 09:25 PM Completed: _____

Failure: _____ Repair: _____ Further Action:_____

Comments: w ent to problem location. alittle fluid had leaked but nothing extensive and not going into a storm sew er.

Inspected By: shiplet Date: 15-DEC-21

Signoff By:_____ Date: _____

Closed By: SHIPLET, JACOB P Date: 15-DEC-21

CALL HISTORY

Call No: 2 Call Date: 12/15/2021 03:44:34PM

Comments: . SWR TYPE FROM TRASH/DEBRIS ALONG RIGHT-OF-WAY TO SEWER/MISCELLANEOUS,

Response: STATUS UPDATE

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

Call No: 1 Call Date: 12/15/2021 03:44:29PM

Comments: Service request type w as changed from TRASH/DEBRIS ALONG RIGHT-OF-WAY to SEWER/MISCELLANEOUS

Response: New SR Type

Call Back: N Date:

Caller Name:

Caller Phone: Ext:

SERVICE REQUEST REPORT

Service Request No.
2123584

2123584

Created Date: 12/17/2021 04:23 PM

WORK LOCATION

Address:5558 SHERRICK DR Suite:
Cross Street:
City: State: Zip:
Service Request TypeINVESTIGATE
Problem Code: YASSCLN - Assess need for cleaning.

Problem Description: . BAGS AND TRASH HAVE BEEN DUMPED BEHIND THIS PROPERTY BY THE RETENTION POND , PLEASE INVESTIGATE

Requested Date: Crew :ALIL1 Dept: SEWERMNT Area:SEWERS
Next Approver:
Dispatcher:SYCARLINI Call Back Ready: N
Status: FINISHED Customer Call Back: N
WO/Task No: Finished Date: 12/17/2021 10:48:10PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: BADGLEY, CHARLES Call Back: 0
Address: 5570 SHERRICK DRIVE AMY Suite:
City: CANAL WINCHESTER State: OH Zip: 43110
Work Phone: (614) 940-7442 Ext: Home Phone:

Investigation 12202021-1

Submitted by: DDSTOOPS

SERVICE REQUEST REPORT

Service Request No.
2123584

2123584

Created Date: 12/17/2021 04:23 PM

CLOSEOUT INFORMATION

Start: 12/17/2021 04:57 PM Finish: 12/17/2021 06:22 PM Completed: _____

Failure: YDIRTY Repair: YHAULDEBR Further Action:YNFI

Comments: Found large quantity of garbage, and debris at the rear of 5558 Sherrick drive near the pond. Spoke with the resident at 5558 Sherrick drive and they stated that they have no knowledge of garbage being so close to the river, resident also recently moved in to the property not too long ago. Upon further searching through the garbage I found a letter as well as an amazon box belonging to 7528 Hemrich drive the person's name on the box is Ca'Rita Thorpe. Did not confront resident at that address due to the time of night it was. Will forward findings to code enforcement and storm investigates, as well as attaching multiple pictures I took.

Inspected By: L. Ali Date: 17-DEC-21

Signoff By:_____ Date: _____

Closed By: _____ Date: _____

SERVICE REQUEST REPORT

Service Request No.
2123925

2123925

Created Date: 12/24/2021 01:19 PM

WORK LOCATION

Address: 2223 SULLIVANT AVE Suite:
Cross Street: CLARENDON AVE
City: State: Zip:
Service Request Type INVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: CFD called. CDL truck recently filled up with diesel and had an accident. Diesel spilled on to the road. They were able to damn it up before it hit the sewers.

Requested Date: Crew: Dept: SEWERMNT Area: SEWERS
Next Approver:
Dispatcher: SHIPLET, JACOB P Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 12/24/2021 02:49:03PM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: LT, Pettus Call Back: N
Address: Suite:
City: State: Zip:
Work Phone: Ext: Home Phone:

Investigation 12242021-1

Submitted by: RFLAMB

SERVICE REQUEST REPORT

Service Request No.
2123925

2123925

Created Date: 12/24/2021 01:19 PM

CLOSEOUT INFORMATION

Start: 12/24/2021 02:45 PM Finish: 12/24/2021 02:55 PM Completed: Y

Failure: _____ Repair: _____ Further Action: _____

Comments: Refer to SRMS report 12242021-1

Inspected By: Lamb Date: 24-DEC-21

Signoff By: _____ Date: _____

Closed By: LAMB, ROBERT F Date: 27-DEC-21

SPECIFICATIONS

ID: 2117428 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

SERVICE REQUEST REPORT

Service Request No.
2124197

2124197

Created Date: 12/28/2021 05:11 PM

WORK LOCATION

Address: PARSONS AVE Suite: 0018
Cross Street: MITHOFF ST
City: State: Zip:
Service Request Type INVESTIGATE
Problem Code: YSPILL - Non-water spill; chemical, fuel, etc.

Problem Description: DIST # 18 SOUTH CITIZEN REPORTS THE UHAUL AT PARSONS AND MITHOFF HAS OIL FLOWING FROM THE PARKING LOT ONTO THE SIDEWALK.

Requested Date: Crew : Dept: SEWERMNT Area: SEWERS
Next Approver:
Dispatcher: ADKINS, MELINDA L Call Back Ready: N
Status: CLOSED Customer Call Back: N
WO/Task No: Finished Date: 12/29/2021 07:24:24AM

CUSTOMER INFORMATION

Customer ID: Bill Customer: N
Name: Customer Call Back: N
Work Phone: Ext: Home Phone:
Company: Tax ID:

REPORTED BY

Name: LEWIS, KAYLA Call Back: N
Address: PARSONS AVE Suite: 0018
City: State: Zip:
Work Phone: (330) 720-3215 Ext: Home Phone:

Investigation 12282021-1

SERVICE REQUEST REPORT

Service Request No.
2124197

2124197

Created Date: 12/28/2021 05:11 PM

CLOSEOUT INFORMATION

Start: 12/28/2021 06:15 PM Finish: 12/28/2021 07:00 PM Completed: Y

Failure: _____ Repair: _____ Further Action: _____

Comments: No oil or material coming from lot at Uhaul. Spoke to employee w hile i w as there. Please see S.R.M.S. Investigation 12282021-1

Inspected By: Lamb Date: 29-DEC-21

Signoff By: _____ Date: _____

Closed By: LAMB, ROBERT F Date: 29-DEC-21

SPECIFICATIONS

ID: 2117449 *Category:* DOSD WORK DAT *Type:* SPILL *Title:* SPILL DATA

Seq. No	*Attribute*	*Value*
5	SPILL AFFECTED AREA?	
10	CAUSE?	
15	CONTAINED Y	
20	STORMWATER NOTIFIED Y	
25	EPA ON SITE Y	
30	RECEIVING STRUCTURE #	
35	RECEIVING WATERWAY?	

2021 SWP3 Construction Plans Reviewed

Plan Name	Plan #	Acres Disturbed
Project Magellen	CC-19298	188.70
Magellen Mass Excavation	CC-19232	148.00
Sugar Farms Sections 1, 2 and 3	CC-19263	125.40
1489 Rohr Holding, LLC	CC-19226	120.49
Sugar Farms, Sections 1, 2 & 3	3809-E	101.50
Rickenbacker GLP #8 Building	CC-19284	75.00
I-70 and I-71 over the Scioto	FRA-70/71-12.68	65.40
CN Express PL on Harrisburg Pike	CC-19203	61.00
Renner Park and Villas at Renner Park	CC-19324	57.43
Collings Drive SI s/o Rohr Rd.	3764-E	51.54
Collings Drive Improvements	3764-E	48.00
Gender Road Improvements	3816-E	46.66
Wilcox Gender Apartments	CC-19230	44.69
Gender Road Improvements	3829-E	44.69
London-Groveport Road West	CC-19481	43.79
London Groveport Road SI	3769-E	42.23
Spec I Warehouse on London Groveport	CC-19165	42.21
Spec I Warehouse	CC-19165	42.21
Walnut Woods East, Sections 1&2	3826-E	40.20
RGLP Rail, Site #8 Building, 1417 Rail Southern Court	CC-19284	37.50
Renner Park Improvements, Sections 1,2 & 3	3827-E	36.41
KIPP Phase III	CC-19343	34.13
71 Improvements from 315 to Grant	FRA-71-14.36	33.20
I-70 over 315 Ramp work	FRA-70-13.01	30.20
Darby Crossing Apartments	CC-19450	28.54
Brookview	3830-E	28.16
Spruce Commons	CC-19375	27.88
Allmon Run Section 1 & 2 Mass Excavation	CC-19225	27.77
Glacier Ridge, Sect. 1, 2 & 3	3782-E	26.30
Lampton Village - Phase 1 & 2	3849-E	25.79
Orchard Lakes Sec. 2 & 3 Imps	CC-19173	24.88
Orchard Lakes Section 2 & 3	3773-E	24.82
Villas at Renner Park	CC-19364	24.54
Brice Road Multifamily on Brice Road	CC-19197	23.32
Prarie Town Sports, Ph. 3	CC-19406	22.74
Sussex Place, Sect 4, Phases 1 & 2	3811-E	21.48
Walden Lakes	CC-19382	20.13
Walden Lakes	CC-19382	20.13
Brice Road Multifamily	CC-19197	19.62
Ulry Warner Parkland Improvements	CC-19374	17.95
Columbus City Storage, Ltd.	CC-19401	17.00
Hamilton Woods	CC-19236	16.60
Cassady Ave Widening	3533-E	16.57
AEP Cyprus Station	CC-19341	16.31
Quarry Trails Metro Park	CC-19338	14.75
America's Floor Source	CC-19352	14.48

Plan Name	Plan #	Acres Disturbed
Hamilton Woods N/o 161	CC-19124	14.20
Allmon Run, Section 1	3786-E	14.10
Valencia Apartments	CC-19268	14.06
Uritis Park	CC-19461	12.68
North Nelson Road (525)	3758-E	12.00
Allmon Run Section 2	3828-E	11.88
DPU Courtyards at Riverside Dr. II	CC-19089	11.72
Hamilton Quarter Phase 2	CC-19202	11.40
Meadows at Shannon Lakes Sec. 4	3852-E	11.20
Talbot Property Stream Relocation	CC-19472	11.02
Improvments of Cassady Avenue	3533-E	10.30
Rickenbacker Dry Storage Warehouse	CC19198	9.87
McNaughten Road Street Improvements	3806-E	9.55
Quarry Trails South	CC-19395	9.21
Lusso	CC-19396	9.08
Walden Woods	CC-19252	9.04
Greensward Paddock	CC-19377	9.00
Alum Creek Trunk South, Sanitary Sewer Rehab	CC-18773	8.86
Brynwood Apartments	CC-19256	8.82
Sugar Farms	CC-19397	8.74
Hap Cremean Water Plant Improvements	CC-19265	8.58
Germain Automotive Site Improvements	CC-19418	8.53
Lululemon Building Expansion	CC-19455	8.50
The Orchards, 310 Rathmell Road	CC-19440	8.42
Rickenbacker Dry Storage Warehouse	Grade & Fill	8.07
Cota Imps on McKinley Ave	CC-19171	7.78
COTA McKinley Avenue Phase 3C	CC-19171	7.74
RAP-Walcutt Road	CC-19315	7.70
Camden Apartments - Thompson Road	CC-19299	7.54
Mid-Ohio Food Collective	CC-19356	6.89
OSU Basin 2 Outlet Control	CC-19360	6.80
4240 Truro Station	CC-19251	6.63
Groveport Logistics Hub - Lot 5	CC-19391	6.39
Big Walnut Sanitary Trunk Ext. Phase 2	CC-18351	6.15
4147 Truro Station	CC-19287	6.09
4147 Truro Station	CC-19287	6.09
RV Lot 3500 Alum Creek Drive	CC-19489	5.96
Restaurant Equippers Exp.	CC-19482	5.90
Sheetz on Hilliard Rome Road	3779-E	5.82
Sheetz on Hilliard Rome Road	CC-19181	5.82
Sinclair Family Apts on Sinclair Road	CC-19141	5.80
NRP Sinclair Multifamily	CC-19141	5.80
NRP Sinclair Multifamily	CC-19141	5.80
Touchstone Field Place, Phase II	CC-19476	5.78
OSU Lacrosse Stadium	CC-19409	5.63
Riggins Run Commercial	CC-19311	5.50

Plan Name	Plan #	Acres Disturbed
Riggins Run Commercial	CC-19311	5.50
Upper Scioto Area NW San. Subtrunk	CC-19223	5.43
Turkey Hill # 725	CC-19239	5.39
Worthington Woods Blvd.	3588-E	5.29
Alvis House Addition	CC-19229	5.14
Alvis House Addition	CC-19229	5.14
Cardinal Storage, Georgesville Road	CC-19442	5.07
AEP Canal Marion	CC-19328	5.00
TKS Fabrication Shop on Refugee Road	CC-19199	4.99
Miller Kelton Blueprint Permeable Pavers	CC-18688	4.84
Chantry Village, Phase 3	CC-19254	4.59
Blacklick Creek Sanitary Interceptor Sewer	CC-17845	4.49
Blacklick Creek San. Interceptor AQCF	CC-18980	4.49
East Broad Street Imps. - Whitehall	FRA-16-6.87	4.43
Cannamed Therpeutics Processing Facility	CC-19331	4.36
Blueprint Linden: Hudson McGuffey Project	CC-17691	4.25
DCM7 Delivery Station	CC-18991	4.25
Stormwater Regional Basins, Parsons Ave.	CC-19121	4.19
Kenny Road Improvements	3794-E	4.10
American Addition Phase 4 Improvements	3776-E	4.06
Darby Xing, 6145 E. Broad St.	3841-E	4.06
North N. 5th, E. 5th and E. 6th SI	3761-E	3.99
Ohio Historical Center	CC-19492	3.86
Carvana, 8350 Lyra Drive	CC-19432	3.80
Turkey Hill, 725 Gender-Winchester	3836-E	3.75
Jeffrey Phase IX	CC-19156	3.70
TSS Regional Bioretention Basins	CC-19103	3.69
Jeffrey Phase IX	CC-19156	3.50
AEP Bolton Field	CC-19329	3.50
Palmetto / Westgate Blueprint Hilltop Project	CC-18634	3.48
American Self Storage, Phase II	CC-19493	3.45
Brookwood Point	CC-19215	3.43
Rohr Road Widening	3796-E	3.42
Paul Peterson Company	CC-18934	3.40
Turkey Hill #723 on Hamilton Rd.	CC-19178	3.34
Magnolia Trace II	CC-19289	3.33
Johnstown and Stelzer Road SI	3769-E	3.22
Magnolia Trace II 2021	CC-19289	3.22
Dyar/Lazar HSTS Elimination (Sanitary)	CC-18598	3.20
Sheetz Hilliard Rome Road East	CC-19181	3.19
Hilliard and Rome Road East	3779-E	3.19
Fountain Square CIP 610050	CC-17339	3.15
Lee's RV & Boat Storage Addition, 2970 Woodson Dr.	CC-19392	3.13
Nationwide Children's Hospital, Livingston Orthopedic & Surgery Cent	CC-19371	3.13
Lee's RV & Boat Storage Addition	CC-19392	3.13
Sheetz on S. Hamilton	CC-19139	3.05

Plan Name	Plan #	Acres Disturbed
Alston Pointe	CC-19494	3.04
Miller Kelton Newton Blueprint	CC-18688	3.02
Sheetz on Johnstown & Steber SI	3769-E	2.99
Sheetz on Polaris Parkway	3784-E	2.88
Sheetz on Lyra Drive	CC-19262	2.88
Easton Places Homes Ph. 2	CC-19458	2.88
FRA -104-5.63	FRA-104-5.63	2.81
SR161 Phase 1 - Maple Canyon (Part 1)	3703-E	2.72
Sheetz	CC-19367	2.70
Magellan, Rathmell Road	3844-E	2.68
East Franklinton, San, Stm, and Water	CC-18505	2.65
Mulby Place on Cleveland Ave	CC-19140	2.65
East Franklinton CIPs Phase 3	CC-18505	2.65
Mulby Place	CC-19140	2.65
Weber Holdings - Advance, Ltd.	CC-19303	2.64
Lazelle Crossing Apartments	CC-19269	2.63
Home 2 Suites	CC-19452	2.62
Manor Park Commercial	CC-19155	2.61
Schumaker Place, E. Whittier SI	3767-E	2.58
Schumacher Place Mixed-use on E. Whittier	CC-19175	2.58
Schumacher Place Mixed-Use	3767-E	2.58
Hap Cremean Water Plant Improvements	CT-2086	2.54
White Castle, 5th Ave., 915 W. 5th Ave.	CC-19435	2.53
Mapfre Stadium Dome on Velma Ave.	CC-19133	2.47
Kenny Road Culvert Extension	CC-19179	2.46
Big Walnut Creek Pipeline Crossing Mitigation	Marathon SWP3	2.43
SEA, LTD.	CC-19330	2.43
Imprs. Of Georgesville Road at Hall Road	3526-E	2.41
Taylor and Atheson SI - OSU Carepoint East	3770-E	2.40
KIPP West Campus, Agler Widening	3837-E	2.39
Gender Road Street Improvements	3793-E	2.36
OSU Carepoint East PL expansion	CC-19144	2.34
3344 Morse Crossing Parking Expansion	CC-19261	2.28
City Pointe	CC-19443	2.27
Germain Hyundai on Automall Dr.	CC-19188	2.26
Sembro Designs Warehouse on N. Wilson Rd.	CC-19195	2.23
SemBro Designs Warehouse	CC-19195	2.23
TKS Industrial Fabrication Shop	CC-19199	2.22
Fisher Road Improvements	3792-E	2.18
UDF on Avery & Riggins	CC-19354	2.18
The Sheldon	3831-E	2.15
Local Waste Site Improvements	CC-19304	2.12
Energy Advancement and Innovation Center	CC-19277	2.10
Spartan Air	CC-19359	2.09
Charles Penzone Salon on N. Hamilton	CC-19128	2.08
Sheetz on Cassady	CC-19216	2.06

Plan Name	Plan #	Acres Disturbed
Sheetz on Cassady Street Improvements	3805-E	2.06
White Castle 5th Ave. Redevelopment	3800-E	2.03
Parsons Water Plant	CC-19460	2.00
West Broad & Galloway Road Apartments	CC-19495	2.00
Intersection - Broad St. at James Road	3694-E	1.98
Grace's Bend	CC-19485	1.98
Precision Glass on Westerville Road	CC-19185	1.95
Dartmouth Rd. & Nelson Rd.	CC-19431	1.93
Directions for Youth	CC-19463	1.93
Iglesia De Rios	CC-18623	1.92
Triumph	CC-19389	1.90
Rocco Commons	CC-19221	1.85
N. Meadows Blvd & Roche Drive SI (Sheetz)	3766-E	1.84
Aldi Store #73	CC-19312	1.83
Glenwood Swimming Pool	CC-19470	1.80
Easton Place Homes, Ph. 1	CC-19410	1.77
Cologix on Sancus Blvd. (7525)	CC-19150	1.71
Rickenbacker Intermodal Sanitary Extension	CC-19283	1.70
Ronald McDonald House	CC-19355	1.70
Ethan on Main	CC-19441	1.68
Ethan on 11719 E. Main St.	3851-E	1.68
River Vista Cottage	CC-19210	1.67
Thorntons on South High Street	CC-19333	1.62
South High and Dering Avenue Street Imps.	3817-E	1.62
Westpointe Plaza	CC-19154	1.57
North Market Mixed Use Development	CC-19242	1.56
Geiger Brothers Inc.	CC-19365	1.51
Dura-Belt Addition on Scioto Darby	CC-19193	1.50
Johnson Park Drainage Imps on Waverly St.	CC-19208	1.50
Dura-Belt, Inc. Building Addition	CC-19193	1.50
Trolley District Apartments	CC-19384	1.50
Jeffrey VI & VII (Phase 3)	CC-19420	1.50
Windsor Swimming Pool	CC-19477	1.50
Hilton Tru East Broad St	CC-19487	1.50
Turbo Wash Car Wash	CC-19220	1.49
Inland Products	CC-19340	1.46
The Cleveland	CC-19413	1.44
Bishop Griffin Resource Center	CC-19357	1.43
88 East Ninth Avenue Student Housing	CC-19218	1.40
88 E. Ninth Student Housing	3772-E	1.40
Thorntons on East 5th Avenue	CC-19326	1.40
Dunkin Donuts	CC-19212	1.36
Saraga International Grocery Restoration	CC-18654	1.36
Atwood Terrace Waterline Imps	CT-2123	1.35
Dollar General on Norton Road	CC-19187	1.34
The Learning Experience	CC-19183	1.33

Plan Name	Plan #	Acres Disturbed
Booklyn-Cleveland HSTS	CC-18819	1.33
The Learning Experience on Hayden Run Road	CC-19183	1.32
Cleveland and Starr SWP3	CC-19295	1.32
Turbo Wash Car Wash	CC-19332	1.29
AEP SW Service, 5500 Alkire Road	3853-E	1.29
33 on West 2nd Ave.	CC-19205	1.28
IBEW-33	CC-19205	1.28
NAMC, 5150 E.Dublin-Granville Road	CC-19300	1.25
Kemba Credit Union	CC-19446	1.25
Astor Park Garage	CC-19235	1.22
Verve Columbus	CC-19348	1.21
E. Tenth and E. Ninth SI (Student Housing)	3772-E	1.20
Harriet's Hope Apartments	CC-19393	1.20
Columbus Adventist Academy	CC-19424	1.20
AIP Building Expansion	CC-19169	1.18
TKS Industrial Fabrication Shop	CC-19199	1.18
AMRP East Long & Parkwood	CC-19484	1.18
Moo Moo Express Car Wash, 2431 Silver Drive	CC-19434	1.15
Dollar General, Frebis	CC-19407	1.14
Grant Park North	CC-19415	1.14
3949 Business Park Drive	CC-19222	1.13
Astor Park, Phase 1, Office	CC-19438	1.09
Zoom Express Car Wash	CC-19350	1.08
Turbo Wash Car Wash	CC-19349	1.06
Alum Creek & Alum Creek Trail	FRA-CR16-0152	1.04
Fairfax Apartments Street Improvements	3801-E	1.04
ODOT Whitehall - E. Broad St @ Hamilton Rd	FRA 16-6.87	1.00
Harrington Court Area Water line Imps	CT-2115	1.00
Third Ave. Relief Sewer (San)	CC-17998	1.00
Courtright Rd over I-70	FRA 70-20.29	1.00
The Gilbert on E. Broad and S. Fifth	3757-E	1.00
US 33 Dublin Road Erosion Control	1878-A	1.00
WQ Assurance Lab Renovations @ 910 Dublin	CC-19122	1.00
E. Broad Street Widening	3674-E	1.00
Improvements of Summit St. Signal	3751-E	1.00
Mount Carmel Mall SI on Souder	3762-E	1.00
Sunrise Glen Integrated Solutions (Blueprint)	CC-19148	1.00
Sunrise Glen Integrated Solutions (Blueprint) SI	3765-E	1.00
FRA I-70 @ 270 East w/o Brice Rd	FRA-70-22.85	1.00
Blacklick Creek Main Trunk San. Rebed	CC-19157	1.00
Varsity Ave. Area Water Line Imps	CT-2342	1.00
South Hampton Road Area Waterline Imps.	CT-2116	1.00
I-270/US 33 Improvements (Study)	FRA-270	1.00
Sancus Boulevard Street Improvements	3795-E	1.00
Improvments of Sullivant Ave.	3724-E	1.00
Operation Sidewalks - School Sidewalks Imp. - Grace St	3683-E	1.00

Plan Name	Plan #	Acres Disturbed
Baywood Easton- Gemini signal Imp	3482-E	1.00
Antares Ave. from Polaris Pkwy. To E. of Polaris Pkwy.	3747-E	1.00
DPU FRA-670-0.87 PID 110051 – Stage 3	FRA-670-0.87	1.00
1688 Integrity Drive	CC-19383	0.99
Mifflin Township Fire Station 132	CC-19273	0.98
John Herrick Drive Bridge	CC-19248	0.97
London Groveport Road SI	3771-E	0.96
London Groveport Road SI	3771-E	0.96
Fieldhouse USA on Polaris Pkwy	CC-18816	0.94
Fairfax Apartments	CC-19209	0.94
KFC South Hamilton Road	CC-19206	0.93
Columbus Adventist Academy	3860-E	0.93
Education First Credit Union	CC-19123	0.92
Local Waste Site Improvements	CC-19314	0.92
Germain Mazda West	CC-19378	0.92
Moo Moo Car Wash	CC-19191	0.91
Mock Rd Waterline Imps. CIP	19-129	0.90
Carmack and Andelyn Storm/San	CC-19043	0.90
Winchester Pike over George's Creek (FRA-CR-376-.87)	3716-E	0.90
5055 Sinclair Road	3780-E	0.90
Lazelle Road Culvert and Storm Sewer Repl.	FRA-CR21	0.90
Shake Shack	CC-19447	0.90
DPU CC19449 CIP650985-100004 Community Park-Maple	CC-19449	0.88
Whittier Street Bridge Rehab & SUP Widening	3845-E	0.88
Torchy's Tacos	CC-19451	0.87
Igel Vehicle Maint Bldg	CC-19136	0.86
Bank of America on Harrisburg Pike	CC-19023	0.85
GGMF Office Bldg.	CC-19070	0.85
Starbucks, 2760 Stelzer Road	CC-19464	0.82
Scioto Peninsula Hotel on Belle St.	CC-18823	0.80
Scioto Peninsula Hotel Sanitary	CC-18827	0.80
Scioto Peninsula Office	CC-18839	0.80
Orange Barrel Media on N. Hartford	CC-18896	0.79
E. Mound (50) Parking Lot	CC-18921	0.79
South Weyant Area Waterline Imps.	CT-2121	0.79
Miller/Kelton, Newton Bedford BP Project	CC-18687	0.79
Vera on East Broad	CC-19030	0.77
Advance Auto Parts on Cleveland	CC-18943	0.77
JP Wastewater Cogeneration Facility	CC-19039	0.76
High Water Alley	CC-18966	0.75
8th and High Building	CC-19258	0.75
Third Ave. Sanitary Relief Sewer, Phase 3	CC-17998	0.74
Del Taco, 1466 Harrisburg Pike	CC-19286	0.74
Del Taco Restaurant	CC-19286	0.74
McKinley Manor	CC-19490	0.74
JPMC- 3415 Vision Lot A	CC-19090	0.71

Plan Name	Plan #	Acres Disturbed
JPMC- 3415 Vision Lot B	CC-19091	0.71
Sugar Farms Pump Station	CC-19233	0.70
FRA- Columbus Intersection Imps	PSIP-F/2021	0.68
Mt Vernon Ave (738)	CC-18975	0.67
John Street Improvements	3789-E	0.67
Olentangy River Water Main SWPPP	DOW plan	0.67
Meeklynn Drive Stormwater Improvements	CC-19102	0.66
Mt. Vernon Ave (723)	CC-18908	0.64
Taco Bell	CC-19408	0.64
Franklin Manor Housing	CC-18924	0.63
Dental Office Building	CC-19259	0.63
York Golf Club Storage Facility	CC-19302	0.63
W. Fulton St. from Short St. to 2nd St.	3843-E	0.61
Miller Transportation Building Addition	CC-19322	0.59
Hilliard Rome Road (1775)	CC-18970	0.58
Starbucks	CC-19385	0.57
Norris Drive Area Waterline Imps	CT-2255	0.57
Bestbuys Motors on S. High	CC-18918	0.55
304 Woodland Avenue Apts	CC-19346	0.55
Columbus Metro Library S. High	CC-18812	0.54
Vertex Refining on E. 5th Ave	3736-E	0.53
E. Broad St (195) @ S. Young St.	CC-19115	0.53
3470 Snouffer Road	CC-19362	0.52
Confluence Village Garage	3785-E	0.51
U Part It, Wash Bay	CC-19466	0.51
Sonshine CA on Lenore Ave	CC-19016	0.50
BMU4 LLC	CC-19158	0.50
1105 Carmack Road	CC-19430	0.50
Pedestrian Safety - Walford Street, Sharbot Drive& Northtowne Boule	3818-E	0.50
DPU 21-097- 21675-00059 Miller Ave Area WL Imps.	DPU 21-097	0.50
Sullivant Ave. - Hague to I-70 Street Lighting	3750-E	0.49
Warner Junction	CC-18968	0.48
North 4th Street Improvements	3761-E	0.48
HNB on Tuttle Crossing	CC-19062	0.47
Thorntons on East 5th Avenue	3821-E	0.47
3103 Lamb Ave	CC-19213	0.44
66-82 N. High St.	3839-E	0.44
Dublin Park Compactor Enclosure	CC-18808	0.43
Moo Moo Car Wash	CC-19244	0.43
Courlin Properties, LLC., 1920 Williams Road	CC-19436	0.43
East Noble & Fourth Redirection	3778-E	0.42
McDowell Place	CC-19207	0.42
Avery Road Improvements	3810-E	0.42
Trolley District Apartments	3480-E	0.41
Hayden Run Road Improvements	3797-E	0.40
980 East Rich Street	CC-19325	0.40

Plan Name	Plan #	Acres Disturbed
Trolley District Apartments	3840-E	0.40
Zee Auto Sale on Georgesville Rd	CC-18729	0.39
Z-Cars Sale on Georgesville Rd	CC-18729	0.39
Young Estates Pump Station Replacement	CC-18912	0.39
Livingston Noe Bixby Culvert Rem.	CC-18947	0.38
North South Street (994) Condos	CC-19084	0.38
New Gym at Dublin Granville Road	CC-19201	0.38
Livingston Noe Bixby Culvert Removal	CC-18947	0.37
CIP 610762 Shanley Drive Detention Basin	CC-19433	0.37
Ingleside Apartments	CC-19425	0.37
Godown and Bethel Rd SI	3741-E	0.36
East Main St. (1075) Gas Station	CC-18829	0.35
East Rich St (530)	CC-18967	0.35
Arbors at Turnberry	CC-19075	0.35
Patrick Square on Corella Ave	CC-19076	0.35
Knightsbridge Blvd (4800) P.L.	CC-19085	0.35
Iuka Park, Phase 2, Sewer Rehab	CC-19293	0.35
Ryan Avenue	3783-E	0.33
Mason Anthony Training Academy	CC-18801	0.32
The Refuge on Ryan Ave	CC-19029	0.32
Hubbard, Pearl and Hull SI	3759-E	0.32
Anchor Baptist Church on Clime	CC-18814	0.31
Land Grant Beer Garden	CC-19037	0.31
Dave Fox Parking Addiition, 4070 Fiesta Drive	CC-19301	0.31
Renner Road Water Main	CT-?	0.30
North Sixth Street Improvements	3777-E	0.30
Hill & Smith Building Expansion	CC-19257	0.29
CML Main Library East Terrace Imps	CC-19306	0.29
Kenny Road Detention	CC-19278	0.28
Legacy Maintenance Services	CC-18718	0.25
Kenny and Old Henderson Roads	CC-18916	0.24
E. Broad St (155) Street Level Plaza	CC-19107	0.23
Jackie O's on Fourth	CC-19345	0.22
Noble Academy	CC-19386	0.22
G&Y Pepsi Cooler on Gibbard	CC-19086	0.21
South Columbus Medical Office Building	CC-19242	0.21
Yard Street	3854-E	0.19
Chipolte Mill Run	CC-19358	0.18
Blue Sky Car Wash SI	3753-E	0.17
Jackson Street (424)	CC-19135	0.17
Verve Columbus	3804-E	0.17
Eastmoor Dispensary	CC-19417	0.17
1475 North High Street	3803-E	0.16
Aldi Store #73	3824-E	0.16
Livingston Ave E/o Grant (NCH)	3734-E	0.15
Library Park South Waterline Replacement	CT-2342	0.15

Plan Name	Plan #	Acres Disturbed
Columbus Fire Station 15 Improvements	CC-19247	0.15
Columbus Large Diameter Valve Replacment Part 3	DPU 21-019	0.15
CLDV Waterline Replacement Part 3	CT 2329	0.15
Harrisburg Pike (1521)	CC-18780	0.14
Hero Rentals on Stimmel	CC-19018	0.14
Miller Transportation	CC-19033	0.14
Ohio Glass & Aluminum	CC-19394	0.13
FRA 315 Bridge Road Repairs	FRA-315-2.78	0.12
Dublin Road Erosion Control	1878-A	0.10
Improvements of Cassady Ave.	3763-E	0.10
33 on West Second	3799-E	0.10
John Glenn Avenue Water Main Extension	CT-2341	0.10
OSU - Tuttle Park Pl - John Glen Stm.	CC-19453	0.10
Improvements of E. Broad St.	3714-E	0.09
West State Street Sanitary	CC-18828	0.06
Middle West Spirits	CC-19200	0.06
Improvements of Cleveland Ave.	3754-E	0.06
JPMC 1000 Polaris Solar Panel	CC-19038	0.05
East Russell Street Parking Lot	CC-19241	0.05
Dering Ave. at High St. Replacement	3775-E	0.05
Cleveland Avenue Street Improvents	3807-E	0.05
Mount Carmel East AEP Access Drive	CC-19319	0.05
Mars Petcare US on Fisher Rd	CC-19127	0.03
English Way Water Line Improvements	CT-2357	0.03
Livingston Ave Culvert Imps & Waterline Lowering CIP	CC-18824	0.02
FRA-3-25.33 at Paris Court	FRA-3-25.33	0.02
FRA-Maier Place	FRA-Maier Place	0.02
6th Street Imps e/o East Long Street	3815-E	0.02
Street Lighting Imps. For E. 5th Avenue	13E0228	0.01
Street Lighting Imps. For Circuit 30	13E0223	0.01
Karl Road Sanitary Sewer Improvements	CC-19469	0.01
West Poplar Avenue Street Improvements	3802-E	0.01
COC Mobility Hub - EV Chargers	3812-E	0.01
Sullivant Ave. - I-70 Bridges Decorative Lighting	3814-E	0.00
KKC Master Plan 3 Compactor Canopy	CC-19127	0.00
Polaris Signal Pole Painting	3787-E	0.00
City of Columbus Mobility Hub	3788-E	0.00
DPU FRA-CR75-0.97 PID 113718 Cleveland at Innis Stg	DPU FRA-CR75-0.97	0.00
2120-2130 New World Dr. SWPPP	SWPPP	0.00
Big Walnut Creek Pipeline	No plan #	<1
S Hampton Rd Area WL Imps	CT-2116	<1
Grocery Store and Gas Station Add.	CC-18829	<1
Dublin Granville Rd. at Huntley Rd.	3739-E	<1
Parsons Ave. Retaining Walls	3790-E	<1
East Broad Street Imps. - Bexley	FRA-40-15.27	<1
Private SW Mgmt. Plan for Tussing Booster Station	CC-19373	<1

2021 SWP3 Construction Plans Reviewed

Plan Name	Plan #	Acres Disturbed
Westgate West Tank Footer Repairs	CT-2347	<1
Tussing Booster Station	CC-19373	<1
Greenway Avenue Waterline Imps	CT-2021	< 1

Project name	Plan #	Watershed	Inspections
2J Supply	CC-18604	AC	1
Alum Creek Storm Tank	CC-18141	AC	5
Brentwood Lake Apts.	CC-18702	BL	1
1000 E. Dublin Granville Rd Storage	CC-18443	OL	4
1004 Reinhard Ave	individual lot	SC	4
1008 Reinhard Ave	individual lot	SC	4
1050 N. Fourth St	CC-18793	SC	5
1065 Georgesville	CC-16888	SC	3
1133 Studer Ave	individual lot	SC	3
1183 Whittier St	individual lot	SC	6
1187 Whittier St	individual lot	SC	6
1200 Dublin Rd - Elford	CC-18708	OL	4
1282 Essex Ave.	CC-18546	OL	2
1333 Fields Ave. - COTA	CC-18468	SC	3
1399 Stimmel Road	G&F	SC	7
1400 Brooks Ave- CMHA	NO PLAN	AC	4
1475 N. High Street	CC-19258	OL	3
1489 Rohr Rd Parcel 2 (Groveport logistics 2.0)	3764E	AC	1
1489 Rohr Rd Parcel 2 (Groveport logistics 2.0)	CC19226	AC	1
1521 Harrisburg Pike	CC-18780	SC	1
15th & High Building B	CC-18346	OL	6
15th & High Phase 2 Detention #1	CC-18154	OL	6
15th & High Phase 2 Detention #2	CC-18197	OL	2
15th Avenue & High Street Redevelopment PH2	3451-E	OL	6
172 East North Broadway	individual lot	OL	10
1775 Hilliard Rome Road	CC-18970	SC	7
1818 & 1834 Sullivant Ave.	Demo	SC	2
195 East Broad street	CC-19115	SC	3
230 E.Long St. Apts	CC-18169	SC	2
255 South High Street	CC-17688	SC	3
25th Main Yard - 1850 E. 25th Ave.	CC-18269	AC	3
27 West Jenkins Avenue	CC-18758	SC	9
291 & 289 E. Greenwood Ave. and 288 and 294 E. 4th Ave.	individual lot	OL	1
3036 Boston Ridge Drive, Lot 282	individual lot	AC	5
3038 Melkridge Street, Lot 337	individual lot	AC	5
3101 Agler Rd Warehouse	CC-19080	AC	5
315/Broadway/Olentangy/Ramps	3402-E	OL	4
3175 Gideon Lane, Lot 129	individual lot	AC	4
3275 Crossing Hill Way	individual lot	AC	5
3344 Morse Crossing Parking Expansion	CC-19216	BW	1
3355 East Fifth Ave -filling & grading	NO PLAN	BW	1
3387 Crossing Hill Way	individual lot	AC	1
3395 Crossing Hill Way	individual lot	AC	1
3403 Crossing Hill Way	individual lot	AC	1
3460 E. Dillward	individual lot	AC	6
3499 Crossing Hill Way	individual lot	AC	1
3531 Crossing Hill Way, Lot 416	individual lot	AC	5
3600 Enterprise Ave	CC-18202	SC	5
3600 Johnny Appleseed Court	NO PLAN	AC	5
361 Loeffler Ave	CC-18054	SC	10

Legend for Watersheds: AC - Alum Creek, BD - Big Darby. BL - Blacklick Creek, BW - Big Walnut Creek, LW - Little Walnut Creek, OL - Olentangy River, RF - Rocky Fork Creek, SC - Scioto River

Project name	Plan #	Watershed	Inspections
3730 Westerville Rd PID:010158605	NO PLAN	AC	1
3784 Westerville Rd	NO PLAN	AC	4
3905 Sullivant Avenue	CC-16883	SC	6
3949 Business Park Dr.	CC-19222	SC	5
43 @ New Albany	CC-18274	BW	7
4800 Knightsbridge Blvd	CC-19085	OL	1
4th & 5th – 1206 N. 4th Street	CC-19113	OL	5
50 S. Grant Ave apts	CC-18715	SC	2
510 Sunbury Rd	CC-18606	AC	8
530 E Rich St.	CC-19136	SC	8
540 E. Broad St.	CC-19059	SC	5
5509 Sunbury Rd - MYC	CC-16855	BW	8
5th and Forsythe - 1300 Forythe Ave	CC-18436	OL	7
617-621 Gibbard Ave - individual construction	individual lot	OL	3
707 W Broad Street Demolition	Demo	SC	2
7280 Lehman Rd	CC-18782	BL	12
731 West Rich Street	CC-18968	SC	1
750 E.Broad St.	CC-18666	SC	7
767 & 777 N. 4th Redevelopment Project	NO PLAN	OL	4
850 Harmon Avenue	G&F	SC	10
875 North 4th Street	CC-17994	OL	1
88 E. Ninth street Student Housing and SI	CC-19218	OL	4
88 N. Fifth St	NO PLAN	SC	5
882 South Front Street	CC-17534	SC	7
92. N. Fifth St.	individual lot	SC	2
95-113 E. 11th Ave.	CC-18678	OL	4
96 N. Fifth St.	individual lot	SC	6
966 S. High St.	CC-18497	SC	2
994 N. 6th st Condos	CC-19084	OL	4
998 - 1000 Reinhard Ave	individual lot	SC	4
A D Farrow 491 W. Broad	SC App. # 19670-0001	SC	2
A Y Manufacturing LTD	CC-18843	BR	6
A Y Manufacturing LTD Ph. 3	CC-18425	BR	9
AAA Gandview Avenue	CC-18125	SC	1
Abbie Tails Storage G&F / Sanitary	CC-19101	BL	6
Acadia Healthcare	CC-17838	BW	6
Addison Woods	CC-17686	SC	3
Addition to Bolton Crossing	CC-18063	SC	1
Advance auto parts 1097 Cleveland Ave and SI	CC-18943	OL	3
Advanced Turf Solution	CC-17860	SC	1
AEP	CC-18307	BW	13
AEP Car-IR Building	CC-18176	SC	1
Airport Hilton	CC-18088	AC	6
Airside IV	CC-18085	BW	5
Al Bordelon Truck Lot	NO PLAN	SC	10
Albany Corners	CC-16990	RF	1
Aldi Store # 10	C-18792	BW	10
Alkire Run Section 1 & 2	4463-D	SC	9
All R Friends Arlingate	CC-19079	SC	6
All Trucks - Jatinder Bhangu Site	CC-18603	SC	8

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Project name	Plan #	Watershed	Inspections
Allmon Run Section 1 & 2	CC-19225	SC	3
Alta Drive SI to Park Road	3501-E	AC	10
Alta Drive Storage Ph. 1 & 2	CC-18950	AC	10
Alum Creek @ Rohr Rd Imp.	E-3618	AC	9
Alum Creek Trunk Middle	CC-18048	AC	5
Alvis Addition	CC-19229	AC	4
Am Add New Build Lots - Redevelopment	individual lot	AC	5
Amberfield @ Big Walnut Sec 1,2,3	E-3701	BW	10
Amerasource Bergen	CC-18692	BW	5
Amerco U-Haul Northland	CC-18333	OL	10
American Leak Detection	CC-18325	SC	5
American Self Storage	CC-17459	BL	9
Anchor Baptist Church	CC-18814	SC	3
Andelyn - 1180 Arthur Adams Dr.	CC-18973	OL	6
Andelyn - OSU West Campus	CC-19044	OL	6
Andrew Reserve CC-18926	CC-18926	RF	7
Apostolic Church	CC-14851	AC	1
Arbors at Turnberry	CC-17552	BL	6
Arbors at Turnberry- Prelim/Revision	CC-19075	BL	1
Archer-Danials Grooves Rd	CC-18848	BW	4
Arco Shook Rd.	CC-18509	BW	10
Arden Park	CC-17628	BW	1
Area B Trailers -1533 Old Cannon Dr.	CC-18706	OL	5
Arts & College Prep Academy	CC-18222	BW	6
Ashland Ave CIP	CC-18170	OL	1
Ashton Point Section 2	CC-18438/E-3587	SC	10
ASR Hamilton Morse to 161 contract 1	3228-E	BW	7
ASR Hamilton Morse to 161 contract 2	3271-E	BW	8
Astor Park Garage	CC-19235	SC	2
Atcheson Place Lofts	CC-18836	SC	6
Austin Place Extended Stay	CC-17770	SC	2
Auto Body on East Broad	CC-18179	BL	6
Avant Dr & Harlem Rd	3479-E	RF	8
Avant Homes - Harlem Rd Preserves at Rocky Fork Ph 1	CC-18037	RF	16
Avery Road Imp	3554-E	SC	9
Bank of America - 1328 Harrisburg Pike	CC-19023	SC	3
Bank of America - 1580 Georgesville Rd.	CC-18879	SC	1
Bank of America - 5438 N. Hamilton Rd.	CC-18636	BW	4
Bank of America - Broadway & High	CC-18750	OL	10
Bank of America Hilliard	CC-18676	SC	2
Basinghall Road Imp	3679-E	SC	9
Battelle Hotel - 633 W. 5th Ave.	CC-18353	OL	3
Baxter House	CC-18759	BW	8
Baywood Hotels & Suites	CC-18221	AC	9
Bedford Place Phase 1 & 2	CC-14694	DY-BL	1
Best Buy Motors 2900 S High St	CC-18918	SC	1
Bethany Baptist Church	CC-17928	OL	6
Big Walnut Creek Pipeline Crossing Mitigation	SWPPP Plan	BW	3
Big Walnut Trail S/O Winchester Pike	CC-18458	BW	2
Binns Blvd. Sidewalk Imp & Basin	3201-E	SC	3

Legend for Watersheds: AC - Alum Creek, BD - Big Darby. BL - Blacklick Creek, BW - Big Walnut Creek, LW - Little Walnut Creek, OL - Olentangy River, RF - Rocky Fork Creek, SC - Scioto River

Project name	Plan #	Watershed	Inspections
Bishop Griffin Resource	CC-19357	AC	1
Bldg. Addition @ 6450 Lasalle Dr.	CC-18888	BW	10
Blue Hippo Car Wash	CC-18496	BL	10
Blue Sky Car Wash	CC-19098	SC	6
BMU4 LLC- 1835 Stelzer Road	CC-19158	AC	3
Boys & Girls Clubs, 1012 Cleveland Ave.	CC-18730	OL	7
Brice Rd Multi Family	CC-19197	BL	1
Brice Station@ Americana Pkwy	CC-18476	BL	10
Brimfield & Beechcroft Sanitary	CC-17733	AC	3
Broad Street @ TS Tech Drive	E-3721	BW	5
Broadview North Apartments	CC-18521	OL	3
Brook Lane Extended Stay Hotel	CC-17716	SC	5
Brook Lane II - West Broad Street	CC-18683	BD	5
Bryden Place -1169 Bryden Road	CC-18549	AC	1
Bryden Row	CC-17866	SC	11
Burwell on 5th Ave	CC-17201	OL	1
Burwell point	CC-17521	OL	1
Byers Mazda	NO PLAN	SC	3
C N Express	CC-18149	SC	9
C N Express Parking Lot	CC-19203	SC	3
C&SG Investment	CC17978	BW	1
Caldwell Automotive	CC-18789	AC	4
Caliber Collision	CC-18940	SC	10
Camden Apt Sanitary	CC-19280	BW	1
Camden Apt Storm	CC-19299	BW	1
Camden Industrial Park on Camden Ave.	CC-19032	OL	5
Camden Yard	SC/GF	SC	5
Camden, Leona, and Olmstead Avenues Impr.	3740-E	OL	5
Campus PARC -1121 Kinnear Road	CC-18800	OL	1
Candlelite Lane Development	CC-18107	AC	5
Capital KIA - 3445 Morse Rd.	CC-18528	AC	7
Cardinal Self Storage - Trabue Rd	CC-19067	SC	8
Cargominium Development	CC-17505	AC	11
Carmack Sanitary Sewer Extension	CC-19034	OL	7
Carmack Storm Sewer Extension	CC-19043	OL	6
Carpenters Local Union 1909 Arlingate Lane	CC-18473	SC	6
Carr Supply	CC-18489	AC	1
Casto Park & Alum Creek boring/remediation	Utility SWPPP	AC	1
Celebrate One Sidewalks	E-3529	SC	1
Central College and Harlem Road	3254-E	RF	7
Central College Condos	CC-17933	RF	8
Certified Oil #491	CC-18276,E3520	SC	10
Chambers Road (1145)	CC-18765	OL	5
Champions Golf Course	CC-18317	AC	8
Chantry Dr Street Improvement	E-3686	BW	1
Chantry Village PH 2	CC-19254	BW	1
Chase Bank	CC-18453	SC	2
Chatterton Villas	CC-12851	BL	1
Chelsea Glen Commercial Parcels	CC-14626	GC	12
Chick-Fil-A Tuttle Crossing	CC-18818	SC	5

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Project name	Plan #	Watershed	Inspections
Chipotle Mill Run	CC-19358	SC	1
Civitas Ave SI	3603-E	SC	6
CKTC Buddhist Temple/645 Rich	CC-18746	SC	6
Clelsea Glen Retail	CC-18889	GC	12
Cleveland Ave. Apts.	CC-18224	SC	2
CMHA Ohio Townhomes on Brentnell	CC-18210	AC	1
CML Hilltop Branch Addition	CC-18724	SC	6
COF Academy	CC-18219	BW	2
Col. Crew MLS Stadium / Temp. Parking	CC-19096	OL	7
Collins Dr.SI	E-3614	WC	11
Columbus Box Storage	CC-19092	SC	3
Columbus City Storage	CC-19401	AC	3
Columbus Country Club	CC-18786	BW	12
Columbus Crew MLS Stadium	CC-18651	OL	12
Columbus Crew MLS Stadium	CC-18852	OL	1
Columbus Municipal Light Plant	CC-18117	OL	7
Comfort Suite on Hutchinson Ave	CC-18191	OL	8
Confluence Village Park	CC-19025	OL	7
Confluence Village SI	3360-E	OL	10
Confluence Village Storm /Infra	CC-18690	SC	1
CONRAC - JGIA	CC-17987	BW	7
Consummer SquareEast	CC-18133	BL	10
Convention Center Drive	E-3670	OL	1
Corner of W. Como and Riverside Dr.	individual lot	OL	1
Cornerstone Village	CC-18876	SC	8
COTA McKinley Ave Ph 3C	CC-19171	SC	3
Courtyards at Riverside Drive	CC-18365	SC	4
Courtyards at Riverside Drive 2	CC-19089	SC	1
Cover My Meds on McKinley	CC-18400	SC	6
Creekside Place	CC-18806	AC	8
Cretor Plumbing	CC-18331	BL	2
Crew Practice Facility	CC-18728	OL	6
Crossing At Grove City Apartments	CC-18059	SC	9
Crossings at Rocky Fork, Section 1	3464-E	BW	7
Crossings at Rocky Fork, Section 2 & 3	3541-E	BW	7
Crown Point West Broad St.	CC-18853	BR	8
Dana G. Rinehart - 910 Dublin - San	CC-18854	SC	1
Dana G. Rinehart - 910 Dublin -Phase 1	CC-18700	SC	5
Dave Fox Parking Addition	CC-19301	OL	3
DCM 7 Delivery Station	CC-18991	OL	5
Del Taco 1466 Harrisburg Pike	CC-19286	SC	1
Dellie Oxygen Co.	CC-18985	SC	4
Demorest Townhomes	CC-18682	SC	10
Dennis Koons Office Building	CC-18249	BW	6
Dent Solutions	CC-17014	BW	4
Dickinson St. Improvement W/O Civitas	3697-E	SC	3
Dixon House	CC-18727	HB	8
Dixon House 2	CC-19138	SC	3
Dock Expansion @ 6450 Lasalle Dr.	CC-18039	BW	10
Dollar General Store - Norton Rd	CC-19187	SC	3

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Dollar Tree on Silver Drive (2391)	CC-18978	OL	6
Dorchester, Sect. 5	3393-E	BL	2
Dormatory Dev. - Norwich (200) Multi-Family	CC-17804	OL	2
DPU Sanitary Sewer IMP	CC-18912	SC	1
Drury Inn & Suites Polaris	CC-18068	AC	10
Dry Run Stream Restoration	CC-17989	SC	6
Dublin Park compactor	CC-18808	SC	1
Dublin Rd. Water Plant Basin Clarifier	DOW	SC	2
Dublin Road Water Plant MISC IMPR - BCR	DOW SWP3	SC	3
Dublin Road Water Plant Power	CC-17806	SC	6
Dublin Road Water Plant UV Facility	DOW SWP3	SC	1
Dunkin & Baskin Robbins	CC-18928	SC	1
Dura-Belt Building Adtn 3119 Scioto Darby Exe. Court	CC-19193	SC	2
Dyer LazarHome Sewer Treatment Dyer Rd.	CC-18598	SC	1
E Main St@ Ashburton	E-3617	AC	7
E. 11th Ave Improvements	3638-E	OL	2
E. 5th Ave. (300) Development	CC-19021	SC	5
E. Broad St @ 4th st	CC19107	SC	4
E. Broad St @ 4th st SI	E-3719	SC	3
E. Broad St. (750) Mixed Use	CC-18666	SC	5
E. Long, Neilston St, E. Lafayette SI	3609-E	SC	1
E. Long,N. 5th, Lafayette, & Neilston SI	3495-E	SC	2
E.Broad St.@ 4th	E-3719	SC	1
E.Long St. 818	CC-18500	SC	11
E.Main St.554	CC-18705,E3663	SC	1
Eagle Trace	CC-17730	BW	6
Eagle Trace, Section 1 & 2 (Mass Ex.)	CC-17717	BW	6
East Block Residential @ Easton TC, Phase 3	CC-18697	BW	7
East Franklinton Sewer,Storm,Water Imp	CC-18505	SC	1
East Main St Decorative Light improvement	"13E0220"	AC	7
East Park and Spruce Hotel SI	3409-E	SC	3
East Parking lot at 525 Sunbury	CC-18956	AC	8
East Rich St (530)	CC-18967	SC	1
Easton Loop SI	3460-E	BW	8
Easton Phase 3 North Parking Lot	CC-18531	BW	2
Easton Square Place	CC-18555	BW	1
Easton TC - Aloft Hotel	CC-18384	BW	7
Easton TC PH3	cc-18010	BW	9
Easton TC PH3 (Parcel 30)	CC-18501	BW	7
Easton TC PH3 Mid-Town	CC-18259	BW	5
Eastpointe Church on Waggoner	CC-18247	BL	6
Education First Credit Union	CC-19123	BW	9
Emmanuel Chin Baptist Church phase 1	CC-17548	BR	6
Emmanuel Chin Baptist Church Phase 2	CC-18929	BR	8
Enterprise Rent-A-Car	CC-18712	OL	10
Enviro-Recycling Group (ERG) - Bonham Av	SWP3/CC-18416	OL	2
Exxcel Spec 1	CC-19165	BW	8
F.W. Beeker Building	CC-17880	OL	1
Fairfax Apts- 1550 Kenny Road	CC19209	OL	4
Fairfax apts SI (1550 Kenny Road)	3801-E	OL	3

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Fairway Blvd Condos	CC-17898	BW	2
FC Correction Facility Ph. 2	CC-19000	SC	1
Fenimore on Central College	CC-17939	BW	8
Fields Ave. Improvement	3595-E	SC	3
Fine Line Auto Body	CC-18466	SC	3
Fire Station #21	CC-16931	BW	1
Fire Station #35	CC-15193	BL	11
Five14 Church	CC-18232	BW	7
Forsythe, Highland and Alleys SI	3614-E	OL	7
Founders Park Storm	CC-18332	OL	7
FRA 315-06.37 SR315 Offsite SCPZ M.	CC-18439	OL	2
FRA Johnstown Rd Alum Creek Trail	3438-E / P&R SWP3	AC	5
FRA-315-2.14 Ramp OC Generation pass Reach Boulevard	3636-E	OL	1
Franklin Co. Correction Facility 1 & 2	CC-19000	SC	2
Franklin County Correction Facility	CC-17794	SC	5
Franklin County Forensic Science Center	CC-18113	SC	3
Franklin International on Bruck	CC-16880	SC	1
Franklin International on Hosack St	CC-18258	SC	1
Franklin MANOR Housing 1475 Stimmel rd	CC-18924	SC	1
Franklin Med Center	CC-18087	SC	2
Franklin University on Rich Street	CC-18532	AC	1
FRA-Olentangy Trail Connector	CC-18723	OL	1
Frito-Lay Parking on Broughton	CC-18336	BL	11
Fruit of the Spirit SDA Church	CC-17327	AC	9
G&J Pepsi Cooler Installation	CC19086	OL	5
Gantz Road Storage Facility	CC-18252	SC	9
Gates Junction	CC-18962	SC	9
Gateway Lofts	CC-17643	SC	3
Gay St. Apts.	CC-18614	SC	4
GCCC Parking Garage Exp.	CC-18255	SC	1
Geer Gas	CC-18877	SC	1
Gemini Place @ Costco	3482-E	AC	1
Gender Public Storage	CC17753	BW	10
Gender Rd Apartments	CC-18735	GC	12
Gender Rd IMP	E 3466	LW	1
Gender Rd IMP/Wilcox	E-3816	GC	1
Georgesville Square Outlots	CC-13528	SC	3
Germain 3867 Morse	CC-18870	BW	10
Germain Hyundai Auto Mall Dr.	CC-19188	SC	3
Giant Eagle Demo	Demo Plan	SC	1
GiGi's exspansion	CC-18538, E-3652	GC	12
Gilbert,The on E.Broad St.@ 5th	E-3757	SC	1
Graceland Flats	CC-17422	OL	10
Grandview Crossing	CC-18315	SC	8
Grandview Crossing Offsite Imp	3586-E	SC	4
Grandview Heights Service Center	CC-18235	SC	1
Grant Apartments	CC-18715	SC	11
Grant Park Houses	individual lot	OL	6
Grant Park Redev., Ph. 2	CC-18495	OL	7
Grant Park Redev., Ph. 3	CC-17948	OL	7

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Grant Park Redev., Ph. 4	CC-18672	OL	6
Grant Park Redev., Ph. 4 - East	CC-18897	OL	8
Grant Park Redevelopment	Site Compliance Plan	OL	1
Grant,Oak,Capital SI	E-3656	SC	11
Gravity 2	CC-18548	SC	6
Gray Gables Realty, 1519-1523 Olentangy River Rd	CC-18643	OL	5
Greensward Paddock	CC-19377	RF	2
Groveport logistics Hub	CC-18186	WC	11
Hamilton @ Central College	3431-E	BW	7
Hamilton and Briarwood Ave Imp	3623-E	SC	9
Hamilton Avenue Imp	3611-E	SC	1
Hamilton Parker	E-3651	SC	5
Hamilton Parker Development on Vine St	CC-18663	SC	6
Hamilton Qtr Flats (Phase 1)	CC-17440	BW	6
Hamilton Qtr Flats (Phase 2 -san)	CC-18308	BW	8
Hamilton Qtr Retail/Target - Mass Excav	CC-18166	RF	7
Hamilton Qtr Retail/Target - Sanitary	CC-18174	RF	7
Hamilton Qtr Retail/Target - Storm	CC-18220	RF	4
Hamilton Quarter - Area Basin 100 G&F	SC16670-00002	RF	7
Hamilton Quarter FSED preceeds CC-19202	CC-17757	RF	4
Hamilton Quarter Outparcels	CC-18447	BW	8
Hamilton Quarter PH2 - Anchor Tenant	CC-19202	BW	1
Hamilton Rd CIP	E-3303	BW	10
Hamilton Rd Ext Imp	3690-E	RF	3
Hamilton Woods	CC-19124	BW	7
Hamlet St. / 4th to E. Greenwood Av.	E-3476	OL	4
Hanover Park	CC-18237	SC	11
HAP Cremean WP Intake Structure & Low Head	CC-18957	BW	5
Hartman Ponds 1	4424-D	SC	3
Hartman Ponds 2	2291-E	SC	3
Hayden Run Retail	CC-18677	SC	7
HCWP Standby Power BMP	CC-17807	BW	8
Healthy Community Way / Slyn Run	CC-18143	OL	4
Healthy Eating Dining	CC-18798	BW	7
Healthy Pets	CC-18659	SC	8
Henderson Road Residences	CC-18074	SC	10
Hensel Ready mix	CC-16853	BW	12
Herc Rental-Stimmel	CC-19018	SC	1
Heritage Pointe - 655 Neil Ave.	CC-19042	OL	6
High Water Alley	CC-18966	SC	7
Hill & Smith Storm Water Improvement	CC-19257	SC	1
Hilliard Green	CC-16908	SC	1
Hilliard Rome Rd	3258-E	SC	1
Hilton Garden Inn (4831 Sunbury Rd)	CC-18360	AC	7
Hilton Home 2	CC-18120	SC	3
Hilton Hotel 2.0 /402 High	CC-18675	SC	6
Homestead Senior Living	CC-18995,E-3733	BL	12
Hoover Farms Grade and Fill	G & F	BW	5
Hoover Farms Grade and Fill Ph 1	G & F 3592-E	BW	3
Hoover Farms Sec 4 Part 1 & 2	3688-E	BW	7

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Hoover Farms Section 2-A-H PH 1	19670-00009	BW	8
Hopkins Printing	CC-18097	AC	1
HQ - Charles Penzon's Salon	CC-19128	BW	5
HQ - Rocco Commons	CC-19221	BW	5
HQ Casey's General Store	CC-18795	BW	7
HQ Fifth Third Bank 5960 N Hamilton Rd	CC-18911	BW	7
HQ Phase 2 Anchor Tenant	CC-19022	BW	8
HQ Phase 2 Retail Service Rd	CC-18964	BW	1
HQ Sheetz 6229 Dublin-Granville Rd	CC-19202	BW	8
HQ Spec Office CC-18796	CC-18796	BW	10
HQ Starbucks	CC-18913	BW	6
HQ Sub Area 5	NO PLAN	BW	1
Hunters Glen Section 1	3301-E	LW	12
Hunters Glen Section 2	3435-E	LW	12
Huntington National Bank - Britton	CC-19062	SC	8
Huntington National Bank - Gemini	CC-19054	AC	8
Hyatt Place on Polaris Parkway	CC-18178	AC	10
Icon Villas at McNaughten	3625-E	BW	10
IGLE Vehicle Maintenance Bldg.	CC-19136	AC	8
Improvement of Johnstown Rd	3710-E	AC	5
Improvements of Trabue Rd	3700-E	SC	6
Imps N High St Ph3 (W Starr to W. King)	3385-E	SC	3
Imps N High St Phase 4 (Short North SID PH4 - King to 9th Ave)	3327-E	SC	3
Imps of Medina Ave from Hudson to Briarwood	3570-E	OL	2
Indian Mound Community Center	CC-18030	SC	5
Indianola Avenue Redevelopment	CC-17601	OL	2
Inverness Place Improvements	E-3591	BW	8
James Rd & Livingston Ave	3500 -E	AC	2
James Rd CIP	E-2979	BW	12
Jaqueline N	CC-18288	AC	6
Jaqueline S	CC-18310	AC	6
Jeffrey VI & VII Part II	CC-19013	SC	5
Jeffrey Park MSMS Reconfiguration	CC-18284	SC	6
Jeffrey Park PH 3	CC-16683	SC	6
Jeffrey Park Phase 8	CC-18372	SC	6
Jeffrey Park Phase 9	CC-19156	SC	2
Jeffrey Park PT 2	3155-E	SC	4
Jeffrey Phase IV	CC-16683	SC	6
Jeffrey Phase VI & VII	CC-18652	SC	6
John Henrick Dr Bridge	CC-19248	OL	3
JP Chase 3415 Vision	CC-19091	AC	2
JPWTP Congeneration Project	CC-19039	SC	1
Karl Road Library	CC-18680	AC	10
Kenlawn Place	CC-18696	AC	11
KFC on S. Hamilton	CC-19206	BW	5
King-Lincoln SI	E-3640	SC	11
Kinnear Rd Improvement	3709-E	OL	1
KIPP School Athletic Field	CC-18096	AC	1
Kokosing CC Storage Building	CC-18240	AC	7
Kroger Fuel Center N593	CC-18769	AC	4

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Lane Woods	CC-12360	SC	10
Langford Meadows	2032-E,4204-D	SC	4
Laurel Healthcare	CC-18019	BR	5
Lazelle Road Ph. A	3168-E	OL	10
Lazelle Road Ph. B	3023-E	OL	12
Lazelle Road Ph. C	3169-E	AC	4
Leaf Creamatory	CC-18405	AC	1
Lees RV Storage Addition	CC-18295	SC	9
Legacy Maintenance Services	CC-18718	SC	1
Lehman Rd. Bridge	FRA- Plan	SC	11
Lehnert Farms / Bolton Field Imp	CC-17222	SC	6
Library Park Apartments on Oak	CC-18318	SC	6
Library Park Sidewalks	E-3547	SC	6
Lincoln at Pearl Apts. & Garage	CC-17965	OL	2
Linden Park Recreation Center	CC-18392	AC	10
Little Turtle Apartments	CC-17937	BW	7
Little Turtle Condos	CC-17868	BW	11
Little Turtle Golf Course and Fitness Facility	CC-18078	BW	7
Livingston Ave E/o Grant (NCH)	3734-E	SC	1
Livingston Ave.	E-3242	SC	6
Livingstone Culverts	CC-18824	BW	1
Lockbourne Intermodal Subtrunk Air Quality Imps.	CC-17501	BW	9
Loefler Residence	CC-18771	SC	11
London Groveport Rd SI	E-3771	AC	7
Long & 3rd	CC-18242	SC	1
Long St at Jefferson Ave Signal Replacement	3608-E	SC	2
LOT - Lower Olentangy Tunnel	CC-18199	OL	3
Lucas Lofts 1 and 2	CC-17179	SC	1
Lucas Lofts Parking Lot 1	CC-18498	SC	1
Lucas Lofts Parking Lot 182 McDowell	CC-18106	SC	1
Lucas Lofts Parking Lot 2	CC-18499	SC	1
Luxe 23 on North High Street	CC-18296	OL	2
Luxe 88	CC-18475	OL	2
Lyra Drive Extension Ph. 1	3481-E	AC	12
Magellan Mass Grading	CC-19232	BW	6
Magnolia Trace 2	CC-19289	BW	1
Magnolia Trace Apartments	CC-18340	BW	8
Magnolia Trace Apartments Phase 2	CC-19289	BW	1
Main St @ McNaughten	E 3304	BW	1
Mango's Place New Albany	CC-18861	RF	7
Manor Park	CC-19155	SC	4
Mapfree Stadium Dome	CC19133	OL	4
Maple Meadows on Maple Canyon	CC-19108	AC	3
Marble Cliff Quarry Development	CC-18138	SC	10
Marcio Kauffman development- 1010 E Long street	CC-18919	SC	2
Mark Walker Warehouse	CC-18502	SC	9
Market & Broad St.	CC-14553	BL	1
Mars Pet Care 5115 Fisher Rd	CC-19127	SC	1
Marsh Brook	CC-18422	BL	4
Mason Anthony Training Academy	CC-18801	SC	1

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Matan Building	CC-17357	SC	9
Mayfair	CC-17014	RF	5
McCord Middle School	CC-18865	OL	10
McCutcheon Crossing	4446-D	AC	2
McDaniel's Construction Corp - New Office	CC-18630	AC	2
McNaughten Rd PL Exspansion	CC-15819	BW	1
McNaughten Rd.	E 3806	BW	1
Meadows @ Shannon Lakes Sec. 1	4415-D	BC	12
Meadows @ Shannon Lakes Sec. 2 & 3	4437-D	BC	12
Meadows @ Shannon Sec 4	3729-E	BC	5
Meijer Gas #058	CC-18885	SC	9
Menards on Hilliard Rome	CC-17856	SC	3
Metroplolitan House On Hamilton	CC-18742	BW	12
Michigan Ave (840) N/O Buttles	CC-17256	OL	2
Mike Baumann Plumbing Inc.	CC-18271	SC	10
Miller Transportation	CC-19322	BW	1
Monroe, The (on Long)	CC-15205	SC	1
Moo Moo Car Wash 6071 E. Main	CC-19017	BW	8
Moo Moo Car Wash on South Hamilton Road	CC-19191	BL	4
Moo Moo on Brice (5932 Chantry Drive)	CC-19244	BL	5
Morgan East	CC-17987	AC	4
Morgan West	CC-17988	AC	12
Morse Rd (Southside)	3681-E	AC	1
Morse Rd and Sunbury Rd Imp	3565-E	AC	8
Morse Rd FRA-CR17-4.96	3477-E	BW	8
Morse Rd. AEP Station	CC-18201	BW	8
Morse Road-Genoa Access Project AEP 1590	CC-19132	BW	4
Motorist Topiary Park Housing	3445-E	SC	7
Motorists IS Topiary Park	CC-17980	SC	7
Mount Caramel East, NW Pl	CC-17372	BL	6
Mount Carmel Renovation	CC-18218	SC	3
Mount Carmel Renovations SI	3513-E	SC	1
Mount Carmel West	CC-18194	SC	1
Mount Carmel West Transformation	CC-18357	SC	6
Mount Vernon Ave. (1127)	CC-15498	SC	1
Mt Vernon Apartments	CC-18975	SC	2
N. High St. Improvements @ E. Tomkins SI	3601-E	OL	4
N.Harding Rd @ E.Broad St.	E-3511	AC	11
NACO Site HQ	CC-17255	BW	7
Nationwide Blvd	E-3648	SC	1
NCH Behavioral Pavillion	CC-17650	SC	1
NCH Central Energy	CC-17645	SC	1
NCH Childcare Facility	CC-18111	SC	1
NCH Children's Crossroad Extension	CC-17326	SC	1
NCH Confrence and Data Center	CC-18099	SC	6
NCH Hospital West Campus PL	CC-18164	SC	1
NCH Orthopedic Parking Lot	CC-18807	SC	1
NCH Research Bldn 4 & Purple Garage	CC-18855	SC	11
Neilston Street & E Long Street Garage 2019	CC-18481	SC	1
New Albany Rd West	3180-E	RF	1

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New Fire Station 16	CC-18326	AC	6
New Mason - Neruda Ave	CC-18238	SC	6
Normandy Ave - SI	3519-E	SC	2
Normandy Residences	CC-18270	SC	6
North Fourth street (1206) 4t &5th	CC-19113	OL	1
North Grove	4442-D	SC	9
Northern Place Townhomes	CC-18390	RF	4
Northland Gate on Maple Canyon	CC-18764	AC	12
Norton Rd (east side) SI 3146-E	E-3146	BR	4
Oak & Wilson Residences	CC-18781	AC	11
Oak St. (330)	CC-17437	SC	1
Oak St. Décor lighting	E-0220	SC	2
ODOT Roberts Road FSMF	CC-18060	SC	2
Ohio Brewing on East 2nd Ave.	CC-18693	SC	6
Ohio Cat on Walcutt	CC-18262	SC	7
Ohio Center Way - N. 3rd Street	3550-E	SC	1
Ohio Expo Center - E. 17th (717)	CC-18550	OL	6
Ohio Health Neuro Wellness Center	CC-18193	OL	1
Old Hamilton Rd Improvements	3358-E	BW	1
Olentangy River Rd / W.N. Broadway	3401-E	OL	4
Olentangy Trail Arena District Connector	CC-18723	OL	12
Optometry Clinic on Neil	CC-18516	OL	1
Orange Barrel Media parking - 243 N Hartford Ave	CC-18896	SC	3
Orchard Lakes	E-3773	BW	1
OSP Academy Security Imp.	CC-18454	AC	1
OSU - Canfield Hall Loading Dock 239 W 11th	CC-18760	OL	3
OSU – Coffey Rd. Sports Center Improvements	CC-18872	OL	6
OSU - Contractor Laydown Area 894 Woody Hayes Dr.	CC-18846	OL	6
OSU - Dodd Parking Garage CC-18989	CC-18989	OL	5
OSU - Frank Station Vet Clinic	CC-18822	OL	7
OSU - MOB Hamilton Quarter	SC18760-00010	RF	7
OSU - WMC RAF PH1	CC-18452	RF	7
OSU Advanced Materials	CC-18084	OL	3
OSU Air Park Work Ph. 1	CC-18385	OL	5
OSU Ambulatory Facility	CC-18856	OL	6
OSU Ambulatory Facility - Storm Demo/Grading	CC-18810	OL	6
OSU Arts District	CC-18524	OL	6
OSU Cannon Dr. Entry Wall	OSU Plan	OL	2
OSU Cannon Drive - SWP3	CC-17287	OL	3
OSU CEF Research Production Complex - 2515 Carmack Rd	CC-18324	OL	6
OSU Central Sterile Supply	CC-18368	OL	6
OSU CHP-DHC plant smart campus	CC-19110	OL	5
OSU Energy Advancement and innovation center	CC-19217	OL	2
OSU ENGIE Steam Tunnel	OSU Plan	OL	5
OSU Hospital East-West Wing	CC-18165	AC	6
OSU- interdisciplinary Health Science Center	CC-18835	OL	4
OSU INTERDISCIPLINARY Research Facility	CC-18811	OL	6
OSU Newton Hall	CC-18779	OL	6
OSU Ty Tucker Tennis Center	CC-18640	OL	2
OSU West campus infrastructure ph1-BP2	CC-19027	OL	4

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Project name	Plan #	Watershed	Inspections
OSU West Campus Inrastructure Phase 1	CC-18804	OL	2
Otto Beatty Building	CC-17032	SC	9
P&W Roofing	CC-18661	SC	4
Panera 6120 Sawmill Rd	CC-18695	SC	4
Panera Bread on Orion	CC-18616	AC	5
Park & Spruce Hotel	CC-17809	SC	7
Park, Spruce, & Armstrong SI (Spruce Hotel)	3409-E	SC	2
Parks Edge Condos	CC-17260	SC	7
Parkside Sec 1 on Ulry Road	3563-E, 3613	BW	7
Parkside Section 2 on Ulry Road	3678-E	BW	9
Parson Place	CC-18279	SC	1
Patrick Square on Corella Ave	CC-19076	BL	1
Patrick Square on Corella Ave (revison)	CC-17552	BL	1
Paul Peterson Co. Scioto Darby Exe. Court	CC-18934	SC	1
Payne Ave. Warehouse	CC-16103	AC	1
Ped. Safety Improvements- McGuffey & Duxberry	3412-E	OL	1
Perry St. - W. 5th Ave	3561-E	OL	7
Perry St. Park & Invasive Species Clearing	NO PLAN	OL	5
Phillips Farms East Walnut Street	CC-18887	BW	8
Plaza at Hamilton Quarter	CC-18644	BW	6
Plaza on Norton Road	CC-16733	BR	6
Pleasant View Middle School	CC-18890	SC	9
Poindexter Park Improvement	CC-19192	SC	6
Poindexter Phase 3	CC-17864	AC	6
Pointe at Polaris Phase 2	CC-18462	AC	6
Polaris Amphitheater Fill Site	CC-17441	AC	10
Polaris Amphitheater Site SI	3272-E	AC	9
Polaris Independent Living Facility	CC-17709	AC	11
Polaris Parkway Rehabilitation	3221-E	AC	4
Polaris Police Substation	CC-18124	AC	9
Police Station Driveway	CC-19033	BW	1
Postle Hall Expansion on Neil	CC-18006	OL	6
Prairie Township Sports Complex	CC-17186	HB	7
Prairie TWP sports Phase 2 (Private Storm Imp)	CC-18842	HB	3
Precision Glass	CC-19185	BW	2
Preserve Crossing V	CC-17894	RF	1
Preston Hollow Section 1 & 2	3388-E	RF	8
Preston Hollow Section 3	3506-E	RF	5
Preston Hollow Section 4	3558-E	RF	5
Processing Facility at 1225 Boltonfield St	CC-18906	BR	8
Quarry Trails Development Phase 1 (San)	CC-18431	SC	6
Quarry Trails Metro Park	CC-18753	SC	4
Rail court Global	E-3573	BW	10
Rail Court South	CC-18421	BW	10
railcourt 8 (DHL)	CC-19284	BW	7
Ratliff Health & Wellness Center	CC-15698	AC	1
Ravello on Riverside	CC-18399	SC	4
Ravines @ McNaughten	CC-13589	BW	1
Reach The - on Goodale Ph 2	CC-18215	OL	6
Refectory - addition	CC-18642	OL	1

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Project name	Plan #	Watershed	Inspections
Renu Mechanical	CC-18341	AC	11
Research Alloys	CC-18834	SC	6
Residence Inn	CC-18159	BW	8
Restoration Christian Center	CC-14451	AC	2
Richmond Reserve	CC-18544	BL	16
Rick West 2&3	CC-18467	BW	10
Rickenbacker Dry Warehouse	CC-19188	AC	4
Rickenbacker Global Logistics park	CC-18825	BW	10
Rickenbacker Intermodel24"SS	CC-18863	WC	4
Riggins Road Cardinal Self Storage	CC-18664	SC	9
Riggins Run Apartments Phase 2	CC-19031	SC	8
Riggins Run Commercial	CC-19311	SC	3
Riverside Trail /Chaterton Rd IMP	E-3540	BL	12
Riverside Trail Apartments	CC-18266	BL	12
RJP Enterprices	CC-15227	AC	1
Roadway Improvement Creative Campus Phase 2	3450-E	SC	3
Roberts Road Outpost	CC-18539	SC	6
Rogue Parking Lot	CC-18783	OL	4
Rohr Rd @ Loves Truckstop SI	E-3503	AC	10
ROW Improvements for Grandview Crossing	3586-E	SC	3
Rush Alley Sanitary Imp	CC-18827	SC	6
Rusty's Towing Service	CC-15536	BW	1
S Columbus Medical Bld 1430 S High St	CC-19243	SC	2
S. Hamilton Retail Project	CC-18766	BW	9
S. Hamilton SI	E-3689	BW	11
S.Hamilton Rd CIP	E-3303	BW	1
Saint Catherine Church	CC-18322	AC	1
Salvation Army Citadel Worship	CC-13670	SC	1
San. Sewer Imp /Young Estates	CC-18912	CG	2
Sancus Blvd improvements	3496-E	AC	5
Sancus Blvd/Polaris Police Substation	CC-18124	AC	1
Savvas Madison Commercial Development - E 17th	CC-18774	AC	5
SC Car Wash & Tan	E 3720	BL	1
Scholar House (CMHA)	CC-18377	AC	6
Schugel Trucking	CC-17561	SC	2
Scioto Communities on Obetz	CC-17773	SC	1
Scioto Peninsula Hotel	CC-18823	SC	7
Scioto Peninsula Office - 330 Rush	CC-18839	SC	8
Scioto Peninsula Residential	CC-18884	SC	8
Scioto Peninsula Roadway Imp	3677-E	SC	6
Scioto Peninsula San. Storm Water Imp	CC-18187	SC	6
Scioto Peninsula Sanitary Imp- W. State	CC-18828	SC	6
Sembro Designs Studio 2163 N Wilson Rd	CC-19195	SC	3
Sharbot apartments	CC-17892	AC	10
Sheetz at 4201 S. Hamilton	CC-19139	BW	5
Sheetz # 034 on Stelzer Rd	CC-19087	BW	1
Sheetz on 161	CC-19100	OL	3
Sheetz on Brice Rd.	CC-19048,E3744	BL	7
Sheetz on Cassady	CC-19216	BW	2
Shook Rd @ Spiegel (2235)	CC-18698	BW	1

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Shook Rd Improvement with CC-18509	E-3627	BW	10
Short St Improvement	E-3608	SC	1
Sinclair Family Apartments	CC-19141	OL	1
Sinclair Road SI	3544-E	OL	9
Sixth Ave Sidewalks-University District	3655-E	OL	3
Slane Farms	CC-17295	RF	1
Smart Trucking express	CC-19095	SC	3
Sobeck Rd. (2450) Dock Addition	CC-18264	AC	8
SOCC Security	CC-18530	OL	4
Sophie Village At Abbie Trails	3699-E	BL	12
South 18th, Newton Street, & Stone Avenue	3489-E	SC	1
Southerly Wastewater Treatment Plant	Multi-Plan	SC	7
Springhill Suites 5600 Traubue Rd	CC-18992	SC	1
Spruce Commons	CC-19375	BW	1
St. Frances Desales HS Access	CC-18741	AC	3
St. Francis Telecommuncations Tower	CC-18655	AC	11
St. Micheal Ethiopian Church	CC-17476	AC	1
Starbucks @ Livingston Av.	CC-19385	AC	1
Starling Parking Garage A	CC-18857	SC	9
Starling Parking Garage B	CC-18961	SC	9
State Street at 265	CC18131, E-3493	SC	1
Steffens - Shultz Inc.	CC-18273	SC	6
Straders Garden Center	CC-17756	BR	6
Sugar Farms Section 1-2-3	CC-19263	CG	3
Summerlyn 6	3275-E	BR	3
Sunbury Springs 2019 & 5850-5866 Sunbury	CC-18477	BW	4
Sunpark Apartments on Alta Drive	CC-18182	OL	10
Sussex Place 1	4416-D	SC	11
Sussex Place 2	2007-E	SC	10
Sussex Place 3	3564-E	SC	10
Swan Pointe	CC-18632, E-3631	BW	1
Sweetwater	3507-E	SC	11
T Marzetti Packaging Expansion	CC-19105	SC	10
Telhio Credit Union- Building Addition	NO PLAN	AC	9
Temple Israel	CC-18137	AC	11
The Aubrey	CC-18622	SC	6
The Aubrey SI Summit, E 5th, Alley, Francis Pl.	3645-E	SC	6
The Avenue on Indianola	CC-17601	OL	8
The Burk in Linworth	CC-18605	OL	10
The Cove	E-3580	BW	8
The Edge at Polaris	CC-18303	AC	10
The Gemma	CC-18158	AC	5
The Livingston	CC-18116	AC	1
Thompson Concrete	CC-19314	SC	5
Thompson Concrete	NO PLAN	SC	1
Thompson Rd Apt	CC-19045	RF	2
Tim Hortons Fishinger Blvd	CC-18858	SC	5
Timken Parking Lot NCH	CC-18937	SC	7
Tire Discounters - Hilliard Rome	CC-19040	SC	8
TKS Industrial Fab Shop	CC-19199	BW	6

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Tomkins Studios	CC-18470	OL	6
Tomkins Townhouses	CC-18542	OL	6
Touchstone Field Place on Lochbourne	CC-19060	SC	7
Town Square Station 172 Hawkes	CC-18784	SC	2
Trabue and Walcut Development	CC-18371	SC	1
Trabue Rd. IMP	3664_E	SC	5
Trabue Road Bridge RR	3380-E	SC	1
Trabue Walcutt LLC	CC-18371	SC	3
Traditions on Broad St	CC-17572	BL	10
Trails At Chaterton Pt 1 Sec 2	E-3647	BL	12
Trails at Chatterton East, Section 1	2216-E	BL	12
Trails At Chtterton PT.1 Sec 3	E-3742	BL	5
Trautman Building	CC-16692	SC	8
Trevcor Business Center	CC-18079	BW	1
Trolley Barn	CC-18625	AC	11
Truro Station (Joe Dirt)	G&F	BW	11
Turbo Wash Car Wash	CC-19220	AC	6
Turkey Hill #723 6485 Hamilton Rd	CC-19178	BW	5
Turkey Hill #724 on Stelzer	CC-18506	BW	5
Turkey Hill #725	CC-19239	GC	1
Turnberry Farms Section 8,9,10	3446-E	BL	10
Turner Construction Temp Parking Lot	CC-17637	SC	4
Tuttle Park on Oakland Ave	CC-19007	OL	5
Tuttle Park Place	CC-17418, 3339-E	SC	1
Twin Creeks Warehouse	CC-18241	SC	12
Twin Valley Behavioral Health	CC-18883	SC	5
Ty Tucker Tennis Center	CC-18640	OL	3
Uni Car Lot on Harrisburg Pike	CC-18743	SC	8
University City	CC-18005	OL	4
U-Prep State Addition	CC-18278	SC	3
UPS Employee Parking Lot	CC-17566	SC	2
UPS Integrad	CC-18056	SC	2
UPS OHTRA	CC-17536	SC	2
UPS OHTRA 1	CC-17541	SC	1
UPS OHTRA 2	CC-17627	SC	1
UPS OHTRA Expansion	CC-18309	SC	2
Urban Express 2720 Johnstown Rd	CC-19313	AC	2
US 33 Dublin Rd Erosion repair- Gabion	1878-A	SC	2
Valey Interior Office Expension	CC-18838	SC	8
Vandalia Rentals	CC-18944	SC	8
VCA Animal Hospital	CC-18660	SC	3
Vera on Broad - 10 N. grant Ave	CC-19030	SC	4
Verdant Columbus	CC-18375	AC	2
Vertex Energy on E Fifth Ave	CC-19015	BW	4
Vertex Refining Street Improv	3637-E	BW	2
Verve Columbus	CC-19348	OL	2
Verve Columbus SI	3804-E	OL	2
Via Roma Auto Sales	CC-18362	AC	1
Victoria Manor San Phase 1 & 2	CC-19061	BW	5
Victoria Manor SI	3478-E	BW	2

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Victoria Manor Storm	CC-19071	BW	4
Victorian Grand Reserve	CC-18301	OL	6
View on Pavey Square (The)	CC-17706	OL	4
Village @ Abbie Trails Section 4,5, & 6	3195-E	BL	12
Village @ Abbie Trails Section 9 & 10	3347-E	BL	12
Village @ Abbie Trails Section 7 & 8	3371-E	BL	12
Village @ Abbie Trails, Section 1	4385-D	BL	12
Village @ Abbie Trails, Section 2	4404-D	BL	12
Villages @ Cobbleton	CC-13836	BL	1
Villages at Stone Cliff Sec 2 pt 1,2 &3	CC-14240	AC	1
Villages of Shannon Green	3512-E	BW	12
Villas of Castleton	CC-18323	SC	9
Vision of Faith, Inc., Elaine Road	CC-16650	BW	1
VTT Lincoln LLC	CC-17264	SC	1
W. Eleventh & Neil SI	3602-E	OL	2
W. Fifth Avenue (1319) Car Wash SI	3604-E	OL	1
W. Goodale St. SI	3559-E	OL	6
W. Hamilton Ave. Improv.	3611-E	AC	2
W. Nationwide Blvd./Crew Way	3691-E	SC	1
W. Third Ave. Imp. (Luxe 23 on N. High St.)	3545 - E	OL	3
Walcutt apartments	CC-17913	SC	1
Walcutt apartments	CC-18936	SC	9
Waldren Woods	CC-19252,E3906	BW	2
Waldron & Civitas SI	3295-E	SC	6
Walnut Woods	CC-18864	BW	8
Ward & Burke Tunneling	CC-18849	SC	1
Warner Junction on W.Rich St	CC-18968	SC	9
Watpa Thavon	CC-17877	BL	2
Wendler Commons	CC-18609	BW	8
Wendys 5970 N Hamilton	CC-18942	BW	8
Wesley Woods PH 1 & 2	CC-17254	RF	8
West Albany Crossing	CC-18364	BW	9
West Alum Creek Maintenance	CC-17718	AC	1
West Goodale (555)	CC-18069	OL	6
West Goodale (555) Mass Grade & Fill	CC-17990	OL	6
Westbelt Drive	CC-17913	SC	8
Westside Academy	CC-18685	SC	5
Westside Early Childhood Learning Center on Claredon Av	CC-19001/E3730	SC	3
Wexner Med. Cntr. Const. Staging Area	CC-19064	OL	5
Wexner Med. Cntr. Inp. Tower - Storm	CC-18976	OL	5
Wexner Med. Cntr. Inpatient Garage	CC-18432	OL	2
Wexner Med. Cntr. Inpatient Tower	CC-18958	OL	6
Wheatland Crossing Ph I	CC-18419	SC	9
Wheatland Crossing Ph II	CC-18417	SC	9
Whispering Creek Apartments	CC-17920	SC	11
Whispering Creek Apartments SI	3437-E	SC	11
Wilcox Gender Apartments	CC-19230	BL	3
Williams/Behm HSTS Elimination Project	CC-18092	AC	4
Windmiller Pointe	CC-18903	SC	16
Windsor Site - Dirt 4U, LLC	CC-18261	AC	4

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Woodfield Park on Cassady Ave	CC-18671	AC	7
Woodland Ave Apartments	CC-19346	SC	1
Woodlands Backyard Sports Dome	CC-18277	SC	5
Woodward Ave Detention Basin	CC17471	AC	1
Woodward Ave San CIP 650570-100001	CC-17291	AC	2
Woodward Wildwood Woodnell Storm CIP	CC-15722	AC	2
Worth Ave Easton Loop East	3568-E	BW	8
WOSU at 15th & High	CC-18379	OL	2
Zee Auto Sales 1529 Georgesville Rd.	CC-18729	SC	4
Zoom Express Car Wash	CC-19350	BW	1
2021 LDCPP Inspection Totals			**4386**

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2021 List of Plan Approvals

Drawing Number	Project Name	Approval Date
E3624	SOUTHERLY WASTEWATER TREATMENT SIGNAL REPLACEMENT	1/5/2021
CC19069	FRANKLIN COUNTY CORRECTION CENTER - CONTINUATION PHASE	1/6/2021
CC19045	THOMPSON ROAD APARTMENTS	1/6/2021
CC18960	COMBINED SEWER ABONDONMENT PLAN FOR MT. VERNON AVENUE 723 MT. VERNON AVENUE	1/6/2021
E3258	FRA-CR03-12.96 HILLIARD & ROME ROAD	1/7/2021
E3710	JOHNSTOWN ROAD AND CASSADY AVENUE	1/11/2021
E3532	NORTON RD SHARED USE PATH	1/13/2021
CC19086	G&J PEPSI COOLER INSTALLATION	1/13/2021
CC19062	HUNTINGTON NATIONAL BANK TUTTLE CROSSING	1/13/2021
CC18974	DIRECTED PATHS ORGANIZATION PARKING LOT	1/13/2021
CC18954	OSU INTERDISCIPLINARY RESEARCH FACILITY	1/13/2021
CC18944	VANDALIA RENTALS	1/13/2021
CC18940	CALIBER COLLISION	1/13/2021
CC18872	COFFEY ROAD PARK RECREATION FIELDS	1/13/2021
CC18835	OHIO STATE INTERDISCIPLINARY HEALTH SCIENCES CENTER	1/13/2021
CC19026	PRIVATE SANITARY SEWER IMPROVEMENT PLAN FOR NBY3A	1/14/2021
CC19054	HUNTINGTON NATIONAL BANK GEMINI 1146 GEMINI PLACE	1/20/2021
CC19016	SONSHINE CHRISTAIN ACADEMY	1/20/2021
CC19013	JEFFREY VI & VII (PHASE 2)	1/20/2021
CC18767	COPC MOB II (WESTERVILLE)	1/20/2021
CC19004	HOOVER FARMS SECTION 5	1/26/2021
CC18902	INTEGRITY DRIVE TRAIL CONNECTOR	1/26/2021
E3730	CLARENDON AVENUE FROM SOUTH OF WEST BROAD STREET	1/27/2021
E3700	TRABUE ROAD AT TRABUE RUN ROAD	1/31/2021
CC19084	994 NORTH 6TH STREET	2/2/2021
CC19080	AGLER ROAD WAREHOUSE	2/2/2021
CC19061	VICTORIA MANOR	2/2/2021
CC19055	LOCKBOURNE GREENE	2/2/2021
CC18867	OSU RECREATIONAL FIELDS IMPROVEMENTS	2/2/2021
CC18818	CHICK-FIL-A	2/2/2021
CC19007	COLUMBUS REC AND PARKS TUTTLE PARK LOWER FIELD DESIGN	2/3/2021
CC19065	SINGLE FAMILY DWELLINGS VIAQUEST RESIDENTIAL SERVICES QUEENSWOOD SUBDIVISION	2/5/2021
CC19034	CARMACK SANITARY SEWER EXTENSION	2/5/2021
CC19031	RIGGINS ROAD APARTMENTS PHASE 2	2/5/2021
CC18646	OLD BEECHWOLD AREA IMPROVEMENTS CIP 610804-100001, 69023-100140 & 530282-100117	2/5/2021
CC18092	WILLIAMS / BEHM HOME SEWAGE TREATMENT SYSTEMS ELIMINATION CIP 650895-100001	2/5/2021
CC16609	HOLT AVENUE/SOMERSWORTH DRIVE	2/5/2021
E3735	HOOVER FARMS SECTION 5	2/8/2021
CC18928	DUNKIN & BASKIN ROBBINS	2/9/2021
CC19001	WESTSIDE EARLY CHILDHOOD LEARNING CENTER	2/11/2021
CC18992	SPRINGHILL SUITES	2/11/2021
E3747	TRABUE ROAD (NORTH SIDE)	2/19/2021
E3530	REFUGEE ROAD OVER BIG WALNUT MAD-CR14-5.99	2/22/2021
E3485	OLENTANGY BETHEL TRAIL	2/23/2021
CC19081	SANITARY SEWER ABANDONMENT PLAN FOR SOUTH FOURTH STREET	2/24/2021
CC18660	VCA ANIMAL HOSPITAL 6868 CAINE ROAD	2/24/2021
CC19088	BOBCAT AVENUE & YARD STREET (GRANDVIEW)	2/26/2021
CC19051	REDWOOD-OBETZ	2/26/2021
CC19010	HICKORY CHASE GREEN COURTE (HILLIARD)	2/26/2021
CC18955	FARMSTEAD SUB AREA H PHASES 1-4	2/26/2021
CC19036	SPRING HILL FARM SECTION 1	3/1/2021
CC18986	PRIVATE SANITARY SEWER PLAN FOR DEER RUN SUBAREA A (DUBLIN)	3/1/2021
E3662	HAMILTON ROAD AT WARNER ROAD	3/3/2021
E3758	NELSON ROAD FROM MARYLAND AVENUE	3/4/2021
CC19098	BLUE SKY CAR WASH	3/4/2021
CC19071	VICTORIA MANOR STELZER ROAD	3/4/2021
CC19056	LOCKBOURNE GREENE	3/4/2021
CC19048	SHEETZ 020	3/4/2021
CC19021	300 EAST FIFTH AVENUE DEVELOPMENT	3/4/2021
CC18911	FIFTH THIRD BANK 5960 NORTH HAMILTON ROAD	3/9/2021
CC18748	LANTERN SQUARE	3/9/2021
CC19136	GEORGE J. IGEL & COMPANY NEW VEHICLE MAINTENANCE BUILDING	3/11/2021
CC19064	THE OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER	3/11/2021
CC18750	BANK OF AMERICA - BROADWAY & HIGH	3/11/2021
CC19112	AGLER ROAD DEVELOPMENT	3/15/2021
CC19107	PRIVATE STORM SEWER, GRADING & DETENTION PLAN FOR 155 EAST BROAD STREET	3/15/2021

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Drawing Number	Project Name	Approval Date
CC19027	WEST CAMPUS INFRASTRUCTURE PHASE 1	3/15/2021
CC18994	PROJECT SCARLET	3/15/2021
CC18987	BUTLER FARMS SECTION 6	3/15/2021
E3753	REFLECTIONS DRIVE, MARTIN ROAD, W. DUBLIN GRANVILLE ROAD	3/17/2021
E3721	E. BROAD STREET	3/17/2021
CC18946	SUGAR MAPLE COMMONS	3/18/2021
CC18912	SANITARY SEWER SYSTEM IMPROVEMENTS YOUNG ESTATES PUMP STATION REPLACEMENT	3/18/2021
CC18964	HAMILTON QUARTER PHASE 2 OUTPARCEL SERVICE ROAD	3/19/2021
E3636	GENERATIONS PASS, REACH BOULEVARD, FRA-315-2.14 RAMP OC	3/23/2021
CC19130	JETWAY PROPERTIES	3/24/2021
CC19115	195 EAST BROAD STREET	3/24/2021
CC19092	COLUMBUS BOX STORAGE	3/24/2021
CC19079	ALL R FRIENDS-ARLINGATE	3/24/2021
CC19073	WEXNER MEDICAL CENTER INPATIENT HOSPITAL TOWER DROPOFF AREA	3/24/2021
CC19044	ANDELYN	3/24/2021
CC19032	CAMDEN INDUSTRAIL PARK PHASE 1	3/24/2021
CC19030	VERA ON BROAD 10 NORTH GRANT AVENUE	3/24/2021
CC19022	SHEETZ	3/24/2021
CC19015	VERTEX ENERGY	3/24/2021
CC18989	OHIO STATE UNIVERSITY DODD PARKNG GARAGE	3/24/2021
CC18976	WEXNER MEDICAL CENTER INPATIENT HOSPITAL GARAGE	3/24/2021
CC18924	FRANKLIN MANNOR HOUSING	3/24/2021
CC18884	SCIOTO PENINSULA RESIDENTIAL	3/24/2021
CC18791	MOUNT CARMEL DEVELOPMENT PHASE A	3/24/2021
CC18760	OSU-CANFIELD HALL LOADING DOCK	3/24/2021
CC18708	1200 DUBLIN ROAD	3/24/2021
CC19131	STAFFORD VILLAGE	3/25/2021
CC19083	BEULAH PARK SECTION 2 SANITARY SEWER IMPROVEMENT	3/25/2021
CC19077	GRANDVIEW YARD L BLOCK RESIDENTIAL PHASE 2	3/25/2021
CC19009	REDWOOD AT HENDRON	3/25/2021
CC18945	LINVIEW PARK PROJECT CIP 650870-100705	3/25/2021
E3649	JOHN H MCCONNELL BOULEVARD	3/26/2021
E3498	FRA-315-7.13 NOISE WALLS PART 1	3/26/2021
CC18957	HAP CREMEAN WATER PLANT INTAKE STRUCTURE & LOW HEAD DAM REHABILITATION	3/29/2021
E3738	E FIFTH AVE, N FIFTH ST, N SIXTH ST, 1ST A/N OF E FIFTH AVE	3/31/2021
CC18900	CIP 650491-100008 RICKENBACKER INTERMODAL SANITARY SEWER EXTENSION 2020	4/1/2021
CC19041	THE OVERLOOK AT TARTAN RIDGE (DUBLIN)	4/2/2021
E3605	SHORT STREET	4/5/2021
CC19150	COLOGIX	4/5/2021
CC19139	4201 SOUTH HAMILTON ROAD	4/5/2021
CC19105	T. MARZETTI PACKAGING EXPANSION	4/5/2021
CC19096	COLUMBUS CREW MLS STADIUM TEMPORARY GRAVEL PARKING LOT	4/5/2021
CC19082	SANITARY SEWER ABANDONMENT FOR 4TH & 5TH STREET 1206 NORTH 4TH STREET	4/5/2021
CC19028	OSU WEST CAMPUS INFRASTRUCTURE	4/5/2021
CC18943	ADVANCE AUTO PARTS 1097 CLEVELAND AVENUE	4/5/2021
CC18990	SPRINGHILL SUITES	4/8/2021
E3691	WEST NATIONWIDE BOULEVARD AND COLUMBUS CREW WAY	4/9/2021
CC18975	PRIVATE STORM SEWER & GRADING PLAN FOR 738 MT. VERNON AVENUE	4/12/2021
CC19085	4800 KNIGHTSBRIDGE BOULEVARD	4/13/2021
CC18841	SITE H	4/15/2021
CC19123	EDUCATION FIRST CREDIT UNION	4/16/2021
CC18851	HAMILTON ROAD SUBTRUNK OF BIG WALNUT TRUNK SEWER	4/16/2021
CC19152	MT. HERMON MISSIONARY BAPTIST CHURCH	4/19/2021
CC19147	MIDDLE WEST SPIRITS	4/19/2021
CC19138	DIXON HOUSE 2	4/19/2021
CC19110	CHP / DHC PLANT SMART CAMPUS E PROJECT	4/19/2021
CC19109	MAPLE MEADOWS	4/19/2021
CC19059	STATE AUTO HEADQUARTERS 540 EAST BROAD STREET	4/19/2021
CC19023	BANK OF AMERICA 1328 HARRISBURG PIKE	4/19/2021
E3728	FRA-COLUMBUS-PSIP-FY2021	4/22/2021
CC19011	BLACKLICK CREEK TRUNK SEWER SANITARY SEWER IMPROVEMENTS PART 3	4/23/2021
E3732	HARRISON ROAD CULVERT REPLACEMENT	4/25/2021
E3742	TRAILS AT CHATTERTON EAST SECTION 1 PART 3	4/26/2021
CC19161	RIGGINS RUN 2 COMMERCIAL	4/26/2021
E3718	NEIL AVENUE SIGNALS	4/27/2021
E3740	CAMDEN AVENUE, LEONA AVENUE, OLMSTEAD AVENUE	4/28/2021

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Drawing Number	Project Name	Approval Date
E3682	TRABUE ROAD AND WALCUTT ROAD	4/28/2021
CC19134	SANITARY SEWER IMPROVEMENTS 4222 AVERY ROAD (FRANKLIN COUNTY)	4/28/2021
CC19125	88 EAST NINTH AVENUE STUDENT HOUSING	4/28/2021
CC19186	RICKENBACKER DRY STORAGE WAREHOUSE	5/3/2021
CC19060	TOUCHSTONE FIELD PLACE	5/3/2021
CC19020	ORCHARD LAKES SECTION 1	5/3/2021
CC19191	MOO MOO EXPRESS CAR WASH	5/5/2021
CC19192	POINDEXTER PARK	5/7/2021
CC19127	PROJECT KKC20302 KKC MASTER PLAN PHASE 3 COMPACTOR CANOPY	5/7/2021
CC19142	SINCLAIR FAMILY APARTMENTS	5/9/2021
E3577	OPERATION SAFEWALKS SCHOOL SIDEWALKS SYCAMORE STREET	5/10/2021
E3535	DESHLER AVENUE FROM S 18TH ST TO S LOCKBOURNE RD	5/10/2021
CC19108	MAPLE MEADOWS	5/10/2021
CC19106	MOUNT CARMEL DEVELOPMENT PHASE C	5/10/2021
CC18729	ZEE AUTO SALE 1529 GEORGESVILLE ROAD	5/10/2021
CC18371	TRABUE AND WALCUTT	5/10/2021
E3690	HAMILTON ROAD EXTENSION	5/11/2021
CC19160	SPRING HILL FARM SECTION 2 PARTS A & B (REYNOLDSBURG)	5/12/2021
CC19091	JPMC - 3415 VISION - LOTS B-F SOLAR PANEL INSTALLATION	5/12/2021
E3744	BRICE ROAD, TUSSING ROAD	5/13/2021
CC19199	TKS INDUSTRIAL COMPANY FABRICATION SHOP-INFILL EXPANSION	5/16/2021
CC19194	FRAZIER STORAGE BUILDING	5/16/2021
CC19068	NATIONAL CHURCH RESIDENCES SALEM VILLAGE	5/17/2021
CC19049	NATIONAL CHURCH RESIDENCES BRETTON WOODS	5/17/2021
CC19046	ABCO CONCRETE PUMPING	5/17/2021
CC18915	HESS ROAD OSU WEST CAMPUS	5/17/2021
CC18712	ENTERPRISE RENT A CAR	5/17/2021
CC19195	SEMBRO DESIGNS WAREHOUSE	5/19/2021
CC19113	PRIVATE STORM SEWER AND DETENTION FOR 4TH & 5TH 1206 NORTH 4TH STREET	5/19/2021
CC19042	HERITAGE POINTE 655 NEIL AVENUE	5/20/2021
CC19128	CHARLES PENZONE SALON	5/21/2021
CC19012	JUG STREET SANITARY SUBTRUNK SEWER (NEW ALBANY)	5/21/2021
CC18505	EAST FRANKLINTON SAN & STM SEWERS & WATER IMPROVEMENTS PHASE 3 CIP 610560-100003	5/21/2021
CC19104	HERITAGE POINTE 655 NEIL AVENUE	5/24/2021
CC19100	SHEETZ NORTH MEADOWS BOULEVARD	5/24/2021
CC19211	20-024-CIP DUBLIN AREA SANITARY SEWER EXTENSION	5/25/2021
CC19135	424 JACKSON STREET	5/25/2021
CC18782	LEHMAN PARK STORM SEWER IMPROVEMENTS	5/25/2021
CC18112	NORTH STAR ROAD SANITARY SEWER IMPROVEMENTS	5/25/2021
CC19163	KINGSDALE MIXED-USE (UPPER ARLINGTON)	5/26/2021
CC19206	KFC	6/1/2021
CC19141	SINCLAIR FAMILY APARTMENTS	6/1/2021
CC18909	453 CLAYCRAFT ROAD	6/1/2021
CC19137	MEADOW GROVE ESTATES NORTH SECTION 9 & 10	6/2/2021
E3610	CENTER DRIVE, NORTH HIGH STREET, OHIO CENTER WAY	6/3/2021
E3525	LITTLE TURTLE WAY	6/3/2021
CC18471	NORTHEAST 302	6/6/2021
CC19207	MCDOWELL PLACE	6/7/2021
CC19184	SPEC I WAREHOUSE 1594 LONDON GROVEPORT ROAD	6/7/2021
CC19120	PINNACLE QUARRY (GROVE CITY)	6/8/2021
E3723	SULLIVANT AVENUE	6/10/2021
CC19221	ROCCO COMMONS	6/10/2021
CC19185	PRECISION GLASS	6/10/2021
E3789	JOHN STREET	6/11/2021
CC19241	EAST RUSSELL STREET PARKING LOT	6/11/2021
CC19222	3949 BUSINESS PARK DRIVE	6/11/2021
CC19193	DURA-BELT, INC BUILDING ADDITION	6/11/2021
CC18908	723 MT. VERNON AVENUE	6/12/2021
CC19165	EXXCEL - SPEC 1 1594 LONDON GROVEPORT ROAD	6/14/2021
E3576	KOSSUTH STREET	6/15/2021
E2873	STATE ROUTE 317 SHOOK ROAD - PHASE 2	6/15/2021
CC18934	PAUL PETERSON 3170 SCIOTO DARBY EXECUTIVE COURT	6/15/2021
CC19158	BMU4 LLC	6/16/2021
CC18918	PARKING LOT EXPANSION FOR BESTBUYS MOTORS	6/16/2021
CC19227	ALLMON RUN SECTION 1	6/20/2021
CC19156	JEFFREY PHASE IX	6/20/2021

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CC19176	BRICE ROAD MULTI FAMILY	6/21/2021
CC19171	COTA MCKINLEY AVENUE PHASE 3C	6/21/2021
E3729	THE MEADOWS AT SHANNON LAKES SECTION 5 PART 1 & PART 2	6/22/2021
CC19259	DENTAL OFFICE BUILDING	6/22/2021
CC19243	SOUTH COLUMBUS MEDICAL OFFICE BUILDING 1430 SOUTH HIGH STREET	6/22/2021
CC19205	33	6/24/2021
CC19129	FARMSTEAD PHASE 3-5 (GROVE CITY)	6/24/2021
CC19231	HAMILTON WOODS	6/25/2021
CC19050	BARNETT/EAST DESHLER HOME SEWAGE TREATMENT SYSTEMS ELIMINATION CIP 650895-100005	6/25/2021
CC18980	BLACKLICK CREEK SANITARY INTERCEPTOR SEWER CIP 650034-100008	6/25/2021
CC19244	MOO MOO CAR WASH 5932 CHANTRY DRIVE	6/28/2021
CC19202	HAMILTON QUARTER PHASE 2 ANCHOR TENANT	6/28/2021
CC19172	LYRA DRIVE EXTENSION PHASE 2 EAST POWELL ROAD ROUNDABOUT	6/28/2021
CC18901	SECOND BARREL INTERCONNECTOR AUGMENTATION PROJECT CIP 650860-116300	6/30/2021
CC19228	ALVIS ADDITION	7/2/2021
CC19220	TURBO WASH CAR WASH 2051 IKEA WAY	7/2/2021
CC19167	SANITARY SEWER ABANDONMENT & EXTENSION PLAN FOR 33	7/2/2021
CC19133	MAPFRE STADIUM DOME	7/2/2021
CC19229	ALVIS ADDITION	7/5/2021
CC19188	GERMAIN HYUNDAI 1400 AUTO MALL DRIVE	7/5/2021
CC19224	NEW ALBANY 315 BUILDING (NEW ALBANY)	7/6/2021
CC19189	HILL VIEW SINGLE FAMILY DEVELOPMENT (UPPER ARLINGTON)	7/6/2021
CC19204	ROSE HILL TOWNHOME DEVELOPMENT (REYNLODSBURG)	7/7/2021
CC19164	PUBLIC SANITARY EXTENSION FOR BROEHM ROAD (OBETZ)	7/7/2021
CC19078	RAVINES AT TAYLOR (REYNOLDSBURG)	7/7/2021
CC19058	MULBERRY RUN 21" SANITARY SEWER (GROVE CITY)	7/7/2021
CC18747	CANDLEWOOD WAY ROADWAY EXTENSION (REYNOLDSBURG)	7/7/2021
CC19124	HAMILTON WOODS	7/8/2021
CC19087	SHEETZ 034	7/8/2021
CC19225	ALLMON RUN SECTION 1 & 2	7/12/2021
CC19101	ABBIE TRAILS STORAGE	7/12/2021
CC19170	HILLLIARD ROME MEDICAL OFFICE BUILDING (MOB) 2876 HILLIARD ROME ROAD	7/13/2021
CC19169	AIP BUILDING EXPANSION 4110 LOCKBOURNE ROAD	7/13/2021
CC19155	MANOR PARK DRIVE COMMERCIAL	7/13/2021
CC18786	COLUMBUS COUNTRY CLUB	7/13/2021
CC19099	PROPOSED MULTI FAMILY DEVELOPMENT RIGGINS ROAD 2021	7/14/2021
E3697	DICKENSON STREET WEST OF CIVITAS AVENUE	7/15/2021
CC19209	FAIRFAX APARTMENTS	7/15/2021
E3801	KENNY ROAD, WESTERN AVENUE	7/20/2021
CC18278	UPREP STATE ADDITION	7/22/2021
E3768	S. HAMILTON ROAD (S.R. 317)	7/23/2021
CC19103	TSS REGIONAL BIORETENTION BASINS BLUEPRINT LINDEN PROJECT CIP 650870-100706	7/23/2021
CC19095	SMART TRUCKING EXPRESS LLC	7/23/2021
CC18921	PARKING LOT IMPROVEMENTS FOR 50 EAST MOUND STREET	7/23/2021
CC19264	CONSTRUCTION DRAWINGS FOR ABBEY LANE	7/26/2021
CC19238	WORTHINGTON ROAD SANITARY SEWER SUBTRUNK EXTENSION PHASE 1	7/26/2021
CC19301	DAVE FOX PARKING ADDITION	7/27/2021
CC19291	PROJECT CHARGER GANTON PARKWAY (NEW ALBANY)	7/27/2021
CC19274	SOUTH MONROE AVE	7/27/2021
CC19217	ENERGY ADVANCEMENT AND INNOVATION CENTER	7/29/2021
CC19252	WALDREN WOODS	8/2/2021
E3748	STELZER ROAD AND CODET ROAD	8/3/2021
E3644	SCHOOL SIDEWALKS TASK 2 ANN STREET AND 17TH STREET	8/3/2021
CC19247	FIRE STATION NO 15 BASEMENT DEWATERING IMPROVEMENTS	8/3/2021
E3665	KINGSFORD ROAD	8/6/2021
CC19154	WESTPOINTE PLAZA	8/6/2021
CC19187	DOLLAR GENERAL STORE NORTON ROAD	8/8/2021
E3737	ORCHARD LAKES SECTION1	8/10/2021
CC19307	SANITARY SEWERS FOR 3985 FAR HILLS DRIVE	8/11/2021
CC19280	CAMDEN APARTMENTS	8/11/2021
CC19260	SANITARY SEWER PLAN FOR VALENCIA	8/11/2021
CC19250	BRYNWOOD APARTMENTS	8/11/2021
CC19248	JOHN HERRICK BRIDGE IMPROVEMENTS	8/11/2021
CC19208	JOHNSON PARK DRAINAGE IMPROVEMENTS	8/11/2021
CC19149	SHEETZ	8/11/2021
CC19319	MOUNT CARMEL EAST AEP ACCESS DRIVE	8/17/2021

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Drawing Number	Project Name	Approval Date
CC19300	NAMC	8/17/2021
CC19268	VALENCIA 5300 AVERY ROAD	8/17/2021
CC19261	3344 MORSE CROSSING PARKING EXPANSION	8/17/2021
CC19197	BRICE ROAD MULTI-FAMILY	8/17/2021
E3598	FRA-71-14.36 (PHASE 6R) PART 2	8/18/2021
CC19198	RICKENBACKER DRY STORAGE WAREHOUSE	8/18/2021
E3769	JOHNSTOWN ROAD AND STELZER ROAD	8/25/2021
CC19324	RENNER PARK & VILLAS AT RENNER PARK	8/26/2021
CC19213	3103 LAMB AVENUE	8/26/2021
E3771	LONDON-GROVEPORT ROAD VIC/O LASALLE DRIVE	8/30/2021
CC19277	ENERGY ADVANCEMENT AND INNOVATION CENTER PRIVATE STORM SEWER IMPROVEMENT PLAN	8/30/2021
CC18654	RESTORATION PROJECT FOR 2750 SOUTH HAMILTON ROAD	8/30/2021
CC19335	1475 NORTH HIGH STREET - SEWER ABANDONMENT	8/31/2021
CC19318	NEW ALBANY COUNTRY CLUB SECTION 30 (NEW ALBANY)	8/31/2021
CC19281	TELECOMMUNICATIONS TOWER 4171 DRESDEN STREET	8/31/2021
CC19282	GRANT PARK NORTH	9/1/2021
E3764	COLLINGS DRIVE	9/2/2021
CC19052	PRO-TOW	9/7/2021
CC19311	RIGGINS RUN COMMERCIAL O AVERY DRIVE	9/8/2021
CC19266	WORTHINGTON ROAD SANITARY SEWER SUBTRUNK EXTENSION PHASE 2 (NEW ALBANY)	9/9/2021
CC19256	BRYNWOOD APARTMENTS GENDER ROAD	9/9/2021
CC19234	JAMES PLACE APARTMENTS GENDER ROAD PART 1 & PART 2	9/9/2021
CC19230	WILCOX GENDER APARTMENTS	9/9/2021
CC19240	UPPER SCIOTO WEST SANITARY SEWER SUB-TRUNK 2021	9/10/2021
E3815	N. 6TH STREET	9/14/2021
E3812	W. TOWN STREET	9/14/2021
CC19226	1489 ROHR ROAD PARCEL 2	9/14/2021
CC19285	MAGNOLIA TRACE 2	9/16/2021
CC19201	NEW GYM BUILDING AT 1884 EAST DUBLIN GRANVILLE ROAD	9/19/2021
CC19336	BLUEGRASS PARK (GROVE CITY)	9/20/2021
CC19290	BLUESTONE SUBDIVISION (GROVEPORT)	9/20/2021
CC19360	BASIN 02 OUTLET CONTROL REPLACEMENT	9/22/2021
CC19284	RICKENBACKER GLOBAL LOGISTICS PARK SITE #8 BUILDING	9/22/2021
CC19235	ASTOR PARK GARAGE	9/22/2021
CC19175	SCHUMACHER PLACE MIXED USE	9/22/2021
CC19162	THE COURTYARDS AT CARR FARMS PHASE 1	9/23/2021
CC19263	SUGAR FARMS SECTION 1, 2 & 3	9/25/2021
CC19070	GGMF NEW OFFICE BUILDING 2492 WEST DUBLIN GRANVILLE ROAD	9/27/2021
E3502	W. 7TH AND MOCK RD.	9/28/2021
CC19323	RAP - WALCUTT ROAD	9/28/2021
CC19315	RAP - WALCUTT ROAD	9/28/2021
CC19289	MAGNOLIA TRACE 2	9/28/2021
CC19218	88 EAST NINTH STUDENT HOUSING	9/28/2021
CC19212	DUNKIN DONUTS NORTH HAMILTON ROAD	9/28/2021
E3777	NORTH SIXTH STREET	9/29/2021
E3772	SECTION ALLEY	9/29/2021
CC19292	SUSSEX PLACE SECTION 4	9/29/2021
CC19251	4240 TRURO STATION	9/29/2021
CC19233	PULTE HOMES OF OHIO SUGAR FARMS PUMP STATION AND FORCE MAIN 2021	9/29/2021
CC19223	UPPER SCIOTO AREA NW SUBTRUNK SEWER	9/29/2021
CC17998	THIRD AVENUE RELIEF SEWER PHASE 3 CIP 650768-100003 AND PEDESTRIAN SAFETY IMPROV	9/29/2021
CC19358	CHIPOTLE MILL RUN	10/1/2021
CC19350	ZOOM EXPRESS CAR WASH	10/1/2021
CC19296	GAZAREK DEVELOPMENT (GROVE CITY)	10/1/2021
CC19258	1475 NORTH HIGH STREET	10/3/2021
E3824	N. HIGH ST. (WEST SIDE)	10/4/2021
E3759	E. HUBBARD AVENUE, N. PEARL STREET AND HULL ALLEY	10/4/2021
CC19287	4147 TRURO STATION	10/5/2021
CC19286	DEL TACO	10/5/2021
CC19257	893 BUCKEYE PARK ROAD	10/6/2021
CC19003	SHEETZ 1380 BETHEL ROAD	10/6/2021
CC19002	SHEETZ 1380 BETHEL ROAD	10/6/2021
CC19279	PROJECT MAGELLAN RATHMELL ROAD	10/18/2021
CC19151	SANITARY SEWERS FOR 1489 ROHR ROAD	10/18/2021
CC19346	304 WOODLAND AVENUE	10/19/2021
E3575	HUDSON STREET (REVISION 1 ON 03/10/2022)	10/20/2021

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CC19008	LAWNDALE COMMONS	10/20/2021
E3796	ROHR ROAD	10/22/2021
CC19354	UDF AVERY & RIGGINS	10/25/2021
CC19330	SEA, LTD. 7001 BUFFALO PARKWAY	10/25/2021
CC19305	THORNTONS EAST FIFHT AND CLEVELAND AVENUE	10/25/2021
CC19203	CN EXPRESS PARKING LOT	10/25/2021
CC19344	RENNER PARK & VILLAS AT RENNER PARK	10/26/2021
CC19146	QUARRY TRAILS PHASE 1B	10/28/2021
E3727	AGLER ROAD (REVISION 1 ON 03/01/2022)	10/29/2021
CC19299	CAMDEN APARTMENTS	10/30/2021
CC19126	HAMILTON WOODS	11/4/2021
CC19029	THE REFUGE 400 RYAN AVENUE	11/4/2021
CC19310	THE AVE 3632 INDIANOLA AVENUE	11/13/2021
CC19369	WALDEN LAKES	11/15/2021
CC19216	SHEETZ CASSADY	11/15/2021
CC19255	SUGAR FARMS SECTION 1,2 & 3	11/17/2021
CC19159	KANAWHA-ROSSLYN SANITARY SEWER SYSTEM (FRANKLIN COUNTY	11/24/2021
CC19353	RONALD MCDOANLD HOUSE EXPANSION	11/25/2021
CC19361	WALNUT WOODS EAST	11/26/2021
CC19412	DUTCH ALLEY	11/29/2021
CC19348	VERVE COLUMBUS	11/29/2021
CC19196	BROOKWOOD POINT SANITARY RELOCATION PLAN	11/29/2021
CC19024	LAWNDALE COMMONS 7405 LONG ROAD	11/29/2021
CC19355	RONALD MCDONALD HOUSE EXPANSION	11/30/2021
CC19341	AEP CYPRUS STATION	11/30/2021
E3806	MCNAUGHTEN ROAD (EAST SIDE)	12/1/2021
CC19416	THE ORCHARDS	12/6/2021
CC19400	NORTH OUTPOST STORAGE BUILDING SITE IMPROVEMENTS	12/6/2021
CC19394	OHIO GLASS & ALUMINUM	12/7/2021
CC19214	GLACIER RIDGE SECTIONS 1,2 & 3	12/7/2021
CC17845	BLACKLICK CREEK SANITARY INTERCEPTOR SEWER AIR QUALITY CONTROL CIP 650034-100008	12/13/2021
E3804	IMPROVEMENTS OF KING AVENUE, NORTH HIGH STREET & NORTH WALL STREET	12/14/2021
E3763	N. CASSADY AVENUE	12/14/2021
CC19321	TOWNS ON THE PARKWAY (DUBLIN)	12/14/2021
CC19316	GOLDEN BEAR DEVELOPMENT	12/14/2021
CC19298	PROJECT MAGELLAN	12/14/2021
CC19246	ALTON PLACE (HILLIARD)	12/14/2021
CC19297	PROJECT SUNSHINE HAYES ROAD (GROVEPORT)	12/15/2021
CC18745	DEER RUN FORCE MAIN AND LIFT STATION 19-025-CIP (DUBLIN)	12/15/2021
E3816	IMPROVEMENTS OF GENDER ROAD	12/16/2021
CC19391	GROVEPORT LOGISTICS HUB LOT 5	12/17/2021
CC19349	TURBO WASH	12/17/2021
CC19392	LEE'S RV & BOAT STORAGE ADDITION	12/20/2021
E3724	IMPROVEMENTS OF SULLIVANT AVENUE	12/21/2021
CC19372	SPRING HILL FARM SECTION 3 PARTS A & B (REYNOLDSBURG)	12/23/2021
CC19364	VILLAS AT RENNER PARK	12/27/2021
CC19343	KIPP PHASE III	12/27/2021
CC18732	MEEKLYNN DRIVE SANITARY SEWER IMPROVEMENTS CIP 650890-100000	12/27/2021
CC19181	SHEETZ ROME HILLIARD ROAD EAST	12/28/2021
CC19140	MULBY PLACE	12/28/2021
CC19102	MEEKLYNN DRIVE STORMWATER IMPROVEMENTS CIP 610782-100000	12/28/2021
CC18819	BROOKLYN / CLEVELAND HOME SEWAGE TREATMENT SYSTEMS ELIMINATION CIP 650895-100003	12/28/2021
CC18598	DYER / LAZAR HOME SEWAGE TREATMENT SYSTEMS ELIMINATION CIP 650895-100002	12/28/2021
CC19272	TARLTON MEADOWS WEST SECTION 4 PHASE 1 (HILLIARD)	12/29/2021
CC19377	GREENSWARD PADDOCK	12/30/2021

2021 Post-Construction BMP/SCP Inspection Summary

PLAN NO.	BMP_KEY	PLAN_NAME	LAST INSPECTION DATE
CC15803	553	The Paddock At Hayden's Crossing Phase 1B & 2	1/20/2021
CC08684	552	Greek Corner Express	1/20/2021
CC13762	1033	New Target & Retail Shops	1/20/2021
CC14808	1230	Graceland Shopping Center, West Retail Phase II	1/20/2021
D04451	46	Great Oak Section 1	1/27/2021
CC13932	930	The Traditions At Polaris	2/17/2021
CC17234	2377	Lazer Draze	3/8/2021
CC16356	2153	East Eleventh Avenue Residentional Redevelopment	3/10/2021
D03358	2308	Brookside Woods Section 5 Part 1	3/15/2021
CC16729	2006	TROTTERS	3/16/2021
CC15683	917	Moo Moo's Car Wash - Sawmill	4/1/2021
CC13684	1084	Culvers Restaurant	4/5/2021
CC10193	1243	Oak Creek Professional Park	4/7/2021
CC14231	2741	Location Finders International, Inc	4/22/2021
CC16990	2356	Albany Corners	4/27/2021
CC17448	2599	Kroger Local Market #718	4/28/2021
CC17149	2395	North Parking Deck for Mount Carmel East	5/5/2021
CC13763	1034	Glenabby Condominiums	5/6/2021
CC14540	87	Columbus Showcase	6/15/2021
CC16431	861	Carriage Lane Apartments Westwoods Boulevard	6/15/2021
CC18477	3172	Sunbury Springs	7/7/2021
CC16486	1001	True North #675	8/3/2021
CC17424	2544	Shipley Plaza, Ohio Department Of Public Safety	8/27/2021
CC15413	346	1000 Polaris Parkway	8/31/2021
CC16862	1370	United Dairy Farmers	8/31/2021
CC14165	2165	Olentangy Local School District Elementary School 10	8/31/2021
CC14845	136	Mt. Carmel Nurses Housing	9/7/2021
CC16051	771	425 Building - Phase I	9/9/2021
CC15904	769	Village At Albany Crossing Section 7	9/9/2021
CC14147	2166	LSS North Community	9/9/2021
CC16390	2418	Value Place Hotel	9/9/2021
CC16614	953	The District At Linworth	9/21/2021
CC16631	1310	Village At Hilliard Run Section 3	9/21/2021
CC16838	1359	COLUMBUS ECOLE KENWOOD ELEMENTARY SCHOOL	9/23/2021
CC14119	2171	Walgreen Store No. 9540	9/23/2021
CC14151	2040	Mettler Toledo	9/23/2021
CC15887	668	Getsemani Church Improvements	9/28/2021
CC16321	2145	Northpark Phase II & III	9/28/2021
CC16576	995	Wesley Glen Fenway Parking Lot	9/30/2021
CC15995	2238	CHN Inglewood Court	9/30/2021
CC13700	2250	Preserve Plaza	10/4/2021
CC16815	2491	Lyra Drive North Storm Sewer Relocation	10/5/2021
CC16282	2492	Lyra North	10/5/2021
CC14444	1245	East Bank Condominiums Phase 2	10/6/2021
CC17392	2487	LIGHTNING PROPCO I, LLC	10/6/2021
CC15659	463	Davis Middle School Building Addition	10/8/2021
CC15681	918	Worthington Green	10/8/2021
CC16536	1011	COC Dept of Rec & Parks Hard Rd Maint Facilities	10/8/2021
CC15660	920	Christ Cathedral Church	10/8/2021

2021 Post-Construction BMP/SCP Inspection Summary

PLAN NO.	BMP_KEY	PLAN_NAME	LAST INSPECTION DATE
CC15652	2820	Northpark	10/12/2021
CC15017	202	Worthington Christian School	10/12/2021
CC15600	470	Bridgestone/Firestone Service Facility	10/12/2021
CC15050	292	Westland/Hilliard Ward LDS Church	10/14/2021
CC15004	205	Wal-Mart Store No. 2471-02	10/14/2021
CC15122	252	Yachiyo CORP.	10/14/2021
CC15892	643	Microhand Surgery Center	10/14/2021
CC18496	3178	Blue Hippo Car Wash	10/19/2021
CC12566	231	Speedway	10/19/2021
D04461	845	Cedar Run Section 3 (4461 Dr. D)	10/19/2021
CC13705	2251	Brewers Gate	10/25/2021
CC18462	3165	The Point @ Polaris Phase 2	10/26/2021
CC15650	461	Noor Square	10/26/2021
CC15267	428	International Collision Repair	10/26/2021
CC15202	294	West Side Family Health Center	10/27/2021
CC16688	981	The Sanborn Building	10/27/2021
CC15373	371	Egan Ryan Funeral Home	10/29/2021
CC14414	2248	Thorntons	10/29/2021
CC17249	2429	Meijer Outlot	10/29/2021
CC14575	29	Grant Avenue and Beck Street Condominiums	11/2/2021
CC15604	490	Arlington Park	11/3/2021
CC15469	2241	4400 North High Street	11/4/2021
CC15670	486	Kroger Fuel Center N893	11/8/2021
CC15064	285	Indianola Crestview Alternative Elementary	11/9/2021
CC15709	517	Ohio Dept. of Rehab.&Correction DRC Med. Infirmary	11/9/2021
CC17170	2388	3450 Indianola Ave. Apartments	11/10/2021
CC15714	627	Tanglewood Verizon Wireless	11/15/2021
CC15938	666	Little Caesars Restaurant	11/17/2021
CC15895	641	O'Reilly Automotive, Inc.	11/17/2021
CC16060	765	262-280 Hanover Street	11/17/2021
CC14750	85	IDG Jewelers	11/19/2021
CC16187	741	Southside Health Center	11/23/2021
CC15440	766	Liberty Place Apts. Phase 2	11/23/2021
CC16070	653	Bethel United Presbyterian Church	12/1/2021
CC16678	983	Proposed First Merit Bank(CC7957)	12/1/2021
CC15923	802	New Outdoor Learning Environment	12/2/2021
CC16692	971	221 S.High St. Trautman Building	12/2/2021
CC16724	1325	Land-Grant Brewing Co.	12/6/2021
CC16708	1320	Fire Station No. 22	12/6/2021
CC16344	2150	McDonalds	12/6/2021
CC16975	2277	Huntington National Bank	12/6/2021
CC16987	2349	ECOT Offices	12/8/2021
CC17094	2363	Lee's RV and Boat Storage Addition	12/8/2021
CC17119	2401	634 S. High Street Redevelopment	12/8/2021
CC17032	2365	OTTO BEATTY	12/8/2021
CC17173	2439	Northland Development	12/14/2021
CC17270	2457	Huntington National Bank	12/14/2021
CC17303	2458	180 Wheatland Avenue	12/14/2021
CC17160	2464	5115 Krieger Court Compressed Natural Gas Fueling Facility	12/14/2021

2021 Post-Construction BMP/SCP Inspection Summary

PLAN NO.	BMP_KEY	PLAN_NAME	LAST INSPECTION DATE
CC15000	212	Chatterton Retail & Self Storage	12/15/2021
CC15706	509	Phase 2 Rumpke of Ohio Building 1 Expansion	12/16/2021
CC17384	2517	Olentangy Trail Head Metro Park	12/21/2021
CC15843	772	The Avenue at Polaris	12/27/2021

City of Columbus
2021 Operation and Maintenance Facilities

Tier I City Facilities - Sites subject to 40 CFR 122.26(b)(14)	
Facility Location	**Ohio EPA Facility Permit No.**
Refuse **Alum Creek Site** 2100 Alum Creek Dr. Columbus, OH 43207	4GR00390*FG
Refuse **Georgesville Site** 1550 Georgesville Rd. Columbus, OH 43228	4GR00550*FG
Refuse **Morse Road Site** 4260 Morse Rd. Columbus, OH 43230	4GR00549*FG
Southerly Wastewater Treatment Plant 6977 S. High St. Lockbourne, OH 43137	4GR00607*EG
Jackson Pike Wastewater Treatment Plant 2104 Jackson Pike Columbus, OH 43223	4GR00606*EG
Compost Facility 7000 Jackson Pike Lockbourne, OH 43137	4GR00644*EG
Police Helipad 2130 West Broad St. Columbus, OH 43223	4GR00813*AG
Frank Road Landfill 2104 Jackson Pike Columbus, OH 43223	This site is a landfill that is in "closed" status with no ongoing operations.
Fisher Road Landfill Southwest corner of I-70 and I-270, north of Fisher Road Columbus, OH	This site is a landfill that is in "closed" status with no ongoing operations.

City of Columbus
2021 Operation and Maintenance Facilities

Tier II City Facilities

Airport Golf Course
900 N. Hamilton Road
Columbus, OH 43230

Anheuser-Busch Sports Park
4990 Olentangy River Road
Columbus, OH 43214

Big Run Park Maintenance Facility
4201 Clime Road
Columbus, OH 43228

Big Walnut Park Maintenance Facility
5000 E. Livingston Avenue
Columbus, OH 43227

Champions Golf Course
3900 Westerville Road
Columbus, OH 43224

Columbus Pubic Health
240 Parsons Avenue
Columbus, OH

Cooper Sports Park
5740 Cooper Road
Westerville, OH 43081

COSI Parking Lot
52 Starling Street
Columbus, OH 43215

COTA Park & Ride
4730 Indianola Avenue
Columbus, OH 43214

Divisions of Water and Power
3500/3568 Indianola Avenue
Columbus, OH 43214

Downtown / Gowdy Maintenance Facility
711 W. 3rd Avenue
Columbus, OH 43212

Dublin Road Water Treatment Plant
940 Dublin Road
Columbus, OH 43215

Facilities @ 910 Dublin Road
910 Dublin Road
Columbus, OH 43215

Fairwood Parks Maintenance Facility
1250 Fairwood Avenue
Columbus, Ohio 43206

Fleet Management
CNG Fueling Facility
5115 Krieger Court
Columbus, OH 43228

Fire Station 1 and 9
300 North Fourth Street
Columbus, OH 43215

Fire Station 4
3030 Winchester Pike
Columbus, OH 43232

Fire Station 5
211 McNaughten Road
Columbus, OH 43213

Fire Station 6
5750 Maple Canyon Avenue
Columbus, OH 43229

Fire Station 7
1425 Indianola Avenue
Columbus, OH 43201

Fire Station 8
1240 East Long Street
Columbus, OH 43201

Fire Station 10
1096 West Broad Street
Columbus, OH 43222

Fire Station 11
2200 West Case Road
Columbus, OH 43235

Fire Station 12
3200 Sullivant Avenue
Columbus, OH 43204

Fire Station 13
309 Arcadia Avenue
Columbus, OH 43202

Fire Station 14
1514 Parsons Avenue
Columbus, OH 43207

Fire Station 15
1800 Livingston Avenue
Columbus, OH 43205

Fire Station 16
1130 East Weber Road
Columbus, OH 43211

Fire Station 17
2250 West Broad Street
Columbus, OH 43204

Fire Station 18
1630 Cleveland Avenue
Columbus, OH 43211

City of Columbus
2021 Operation and Maintenance Facilities

Tier II City Facilities

Fleet Management
CNG North
2333 Morse Road
Columbus, OH 43229

Fleet Management
Main Maintenance Facility
4211 Groves Road
Columbus, OH 43232

Forestry Municipal Nursery
6993 S. High Street
Columbus, OH 43137

Gardening Crew Maintenance Facility
1220 Deckenbach Road
Columbus, Ohio 43223

Groves Road Warehouse
4080 Groves Road
Columbus, OH 43232

Hap Cremean Water Treatment Plant
4250 Morse Road
Columbus, OH 43230

Kilbourne Run Sports Park
4625 Westerville Road
Westerville, OH 43231

Linden Parks Maintenance Facility
2071 Parkwood Avenue
Columbus, OH 43211

Lou Berliner Sports Park
325 Greenlawn Avenue
Columbus, OH 43223

Maintenance Operation Complex
1533 Alum Industrial Drive W
Columbus, OH 43209

McKinley Ave. Site
Located adjacent to quarry, south of Trabue, west of McKinley Ave.

Mentel Memorial Golf Course
6005 Alkire Road
Galloway, OH 43119

Metered Parking Lot
1159 N. High Street
Columbus, OH 43201

Northeast Parks Maintenance Facility
3900 Westerville Road
Columbus, OH 43224

Northwest Parks Maintenance Facility
1306 Hard Road
Columbus, Ohio 43235

Fire Station 19
3601 North High Street
Columbus, OH 43214

Fire Station 2
150 E. Fulton Street
Columbus, OH 43215

Fire Station 20
2646 East Fifth Avenue
Columbus, OH 43219

Fire Station 21
3294 East Main Street
Columbus, OH 43213

Fire Station 22
3069 Parsons Avenue
Columbus, OH 43207

Fire Station 23
4451 East Livingston Avenue
Columbus, OH 43227

Fire Station 24
1585 Morse Road
Columbus, OH 43229

Fire Station 25
739 West Third Avenue
Columbus, OH 43212

Fire Station 26
5333 Fisher Road
Columbus, OH 43228

Fire Station 27
7560 Smoky Row Road
Columbus, OH 43065

Fire Station 28
3240 McCutcheon Road
Columbus, OH 43219

Fire Station 29
5151 Little Turtle Way
Columbus, OH 43082

Fire Station 3
222 Greenlawn Avenue
Columbus, OH 43224

Fire Station 30
3555 Fishinger Road
Columbus, OH 43206

Fire Station 31
5303 Alkire Road
Columbus, OH 43228

City of Columbus
2021 Operation and Maintenance Facilities

Tier II City Facilities

Parsons Avenue Water Treatment Plant
5600 Parsons Avenue
Lockbourne, OH 43137

Raymond Memorial Golf Course
3860 Trabue Road
Columbus, OH 43228

Refuse - Alum Creek Site
2100 Alum Creek Dr.
Columbus, OH 43207

Sewer Maintenance Operations Center
1250 Fairwood Avenue
Columbus OH 43206

Short North Metered Parking Lot
00000 N. Pearl Street
Columbus, OH 43215

Fire Station 32
3675 Gender Road
Columbus, OH 43110

Fire Station 33
440 Lazelle Road
Columbus, OH 43081

Fire Station 34
5201 Wilcox Road
Columbus, OH 43016

Fire Station 35
711 N. Waggoner Road
Columbus, OH

Fire Training(Practical Skills Building)
3663 Parson Avenue
Columbus, OH 43207

City of Columbus
Street Sweeper Inventory
December 31, 2021

Brass Tag	Make	Model	Type
24367	Elgin Pelican	3-Wheel Sweeper	Mechanical
24369	Elgin Pelican	3-Wheel Sweeper	Mechanical
24606	Elgin Pelican	3-Wheel Sweeper	Mechanical
24607	Elgin Pelican	3-Wheel Sweeper	Mechanical
24609	Elgin Pelican	3-Wheel Sweeper	Mechanical
24642	Elgin Pelican	3-Wheel Sweeper	Mechanical
24643	Elgin Pelican	3-Wheel Sweeper	Mechanical
24646	Elgin Eagle	4-Wheel Sweeper	Mechanical
24654	Elgin Pelican	3-Wheel Sweeper	Mechanical
24655	Elgin Pelican	3-Wheel Sweeper	Mechanical
24706	Challenger (PM-10)	4-Wheel Sweeper	Mechanical
24707	Challenger (PM-10)	4-Wheel Sweeper	Mechanical
24708	Challenger (PM-10)	4-Wheel Sweeper	Mechanical
24709	Challenger (PM-10)	4-Wheel Sweeper	Mechanical
24710	Challenger (PM-10)	4-Wheel Sweeper	Mechanical
24711	Challenger (PM-10)	4-Wheel Sweeper	Mechanical
24712	Challenger (PM-10)	4-Wheel Sweeper	Mechanical
24713	Challenger (PM-10)	4-Wheel Sweeper	Mechanical
27629	Tymco 500X (PM-10)	4-Wheel Sweeper	Regenerative Air
27655	Global M4 (PM-10)	4-Wheel Sweeper	Mechanical
27773	Global M3 (PM-10)	3-Wheel Sweeper	Mechanical
27774	Global M3 (PM-10)	3-Wheel Sweeper	Mechanical
28829	Ravo 5i (PM-10)	4-Wheel Sweeper	Vacuum Sweeper
29063	Elgin Pelican	3-Wheel Sweeper	Mechanical
29064	Elgin Pelican	3-Wheel Sweeper	Mechanical
29065	Elgin Pelican	3-Wheel Sweeper	Mechanical
29066	Elgin Pelican	3-Wheel Sweeper	Mechanical

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Able Pallet Manufacturing & Repair	1271 Harmon Ave	43223		1	1	General Permit
Ace Iron & Metal	2515 Groveport Rd	43207		1	1	General Permit
Ace Iron & Metal	1662 Williams Rd	43207		1	1	No Exposure Certification
Advance Industrial Manufacturing, Inc.	1996 Longwood Ave	43123		1	1	General Permit
All City Auto Wrecking, Inc.	1441 Joyce Ave	43219		1	1	General Permit
Appian Manufacturing Corporation	2025 Camaro Dr	43207		1	1	No Exposure Certification
Arcelormittal Columbus, LLC	1800 Watkins Rd	43207		1	1	General Permit
A-Z Recycling	1465 E 17th Ave	43219		1	1	General Permit
Banner Metals Group	1308 Holly Ave	43212		1	1	No Exposure Certification
BB Plastics Recycling	3300 Lockbourne Rd	43207		1	1	No Exposure Certification
Blackburn's Fabrication, Inc.	2467 Jackson Pike	43223	3/25/2021	1	1	General Permit
Bo-Mic Enterprises, Inc.	715 Marion Rd	43207		1	1	General Permit eligible; Owner & OEPA notified
Buckeye Body and Equipment	939 E Starr Ave	43201	10/15/2021	1	1	No Exposure Certification eligible; Owner & OEPA notified
Buckeye Boxes, Inc.	601 N Hague Ave	43204		1	1	No Exposure Certification
Buckeye Boxes, Inc. - Warehouse	665 N Hague Ave	43204		1	1	No Exposure Certification
Buckeye Recycling Center	3483 Fulton St	43227		1	1	TBD
Buckeye Shapeform	555 Marion Rd	43207		1	1	No Exposure Certification
Burton Metal Finishing, Inc.	1711 Woodland Ave	43219		1	1	General Permit
Cabbage Cases, Inc.	1166 Steelwood Rd #C	43212		1	1	No Exposure Certification eligible; Owner & OEPA notified
Calgon Carbon Corporation	835 N Cassady Ave	43219		1	1	General Permit
Central Ohio Oil, Inc.	795 Marion Rd	43207		1	1	General Permit
Champion Strapping Products	1819 Walcutt Rd	43228	6/21/2021	1	1	No Exposure Certification eligible; Owner & OEPA notified
Columbus Micro System, Inc.	5087 Westerville Rd	43231		1	1	No Exposure Certification
Columbus Pallet Recycling	611 Marion Rd	43207		1	1	General Permit eligible; Owner & OEPA notified
Columbus Roof Trusses, Inc.	2525 Fisher Rd	43204	7/28/2021	1	1	No Exposure Certification Eligible; Owner & OEPA notified
ConAgra Foods, Inc. (Ardent Mills)	4200 Sullivant Ave	43228	4/1/2021	1	1	General Permit
Cozmyk Enterprises, Inc.	3757 Courtright Ct	43227		1	1	No Exposure Certification
CSX, Inc.	2600 Parsons Ave	43207		1	1	General Permit
Custom Sign Center	400 N Wilson Rd	43204	9/29/2021	1	1	No Exposure Certification Eligible; Owner & OEPA notified
Damos Auto & Shipping	4824 Fisher Rd.	43228		1	1	General Permit
Driveline 1	1369 Frank Rd	43223		1	1	No Exposure Certification
Edison Automotive, Inc.	1529 McKinley Ave	43222		1	1	General Permit
Environmental Enterprises, Inc.	1249 Essex Ave	43201	10/15/2021	1	1	No Exposure Certification eligible; Owner & OEPA notified
Forty Eight Solutions	2130 New World Drive	43207		1	1	No Exposure Certification
Fournier Rubber & Supply Company	4849 Evanswood Dr	43229		1	1	No Exposure Certification
Galaxy Metals	1559 McKinley Ave	43222	3/4/2021	1	1	General Permit eligible; Owner & OEPA notified
Glockner Oil Company, Inc.	2144 John Glenn Ave, Ste B	43217	6/17/2021	1	1	No Exposure Certification
Green Auto Parts & Salvage	844 N Cassady Ave	43219		1	1	TBD
GREIF	3024 Charter St	43228		1	1	No Exposure Certification eligible; Owner & OEPA notified
Hamilton Road Materials	4100 Truro Station Rd	43232		1	1	TBD
Hoof Hearted Brewery	850 N 4th St	43215	4/9/2021	1	1	No Exposure Certification
Howard Industries, Inc.	1840 Progress Ave	43207		1	1	No Exposure Certification
Hudson Meat Company	2320 S 7th St	43207		1	1	No Exposure Certification

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Industrial Aluminum & Bronze Foundry, Inc. (IABF)	1890 McKinley Ave	43222		1	1	No Exposure Certification
Inteplast Pitt Plastics, Inc.	3980 Groves Rd	43232		1	1	General Permit
Ironfab, LLC	1771 Progress Ave	43207		1	1	No Exposure Certification
Jax Wax, Inc.	3150 Lamb Ave	43219		1	1	No Exposure Certification
Jeni's Splendid Ice Cream	909 Michigan Ave	43215		1	1	No Exposure Certification
JETCOAT	472 Brehl Ave	43223		1	1	General Permit
Jon Edwards Steel Company	1777 McKinley Ave	43222		1	1	General Permit
KGR Auto Salvage	2020 Refugee Rd	43207		1	1	General Permit
LCG Machine & Tool, Inc.	2923 Grasmere Ave	43224		1	1	No Exposure Certification eligible; Owner & OEPA notified
Linde Gas North America	1699 Feddern Ave	43123		1	1	No Exposure Certification eligible; Owner & OEPA notified
M R S Industrial, Inc.	2583 Harrison Rd	43204		1	1	No Exposure Certification
Madmoon Craft Cidery	2138 Britains Lane	43224		1	1	No Exposure Certification
McGlaughlin Oil Company	3750 E Livingston Ave	43227		1	1	General Permit
Metro Auto/Dublin Taxi	1555 - 1579 Joyce Ave	43219		1	1	General Permit
Millwood, Inc.	1886 Williams Rd	43207		1	1	No Exposure Certification
MS Energy of Central Ohio, LLC	946 Freeway Dr N	43229		1	1	No Exposure Certification
National Lime & Stone Company	4390 Fisher Rd	43228		1	1	General Permit
New World Recycling, LLC	1079 E 5th Ave	43201		1	1	General Permit
Ohio E-Waste Recycling, Inc.	2050 Williams Rd	43207		1	1	No Exposure Certification
Ohio Fabrication & Welding	1465 Clara Ave	43211		1	1	General Permit
Parker Hannifin Corporation	3885 Gateway Blvd	43228		1	1	No Exposure Certification
Parsons Auto Parts, LLC	2250 Parsons Ave	43207		1	1	General Permit
Patrick Manufacturing	5474 Byers Cir W	43229		1	1	No Exposure Certification
Phoenix Recycling, Inc.	659 Marion Rd	43207		1	1	General Permit eligible; Owner & OEPA notified
Pick-n-Pull	2716 Groveport Rd	43207		1	1	General Permit
Plastic packaging Technologies	4041 Roberts Rd	43228	5/19/2021	1	1	No Exposure Certification eligible; Owner & OEPA notified
Prism Prints Inc /Mo Jo Sportsgear	5765 Westbourne Ave	43213		1	1	No Exposure Certification
RAP Management	4569 E. 5th Avenue	43219		1	1	General Permit
Refuel Environmental Services LLC	4280 Groves Rd	43232		1	1	No Exposure Certification
Reliable Truck Parts	1950 Refugee Rd.	43207		1	1	General Permit
Roof to Road, LLC	888 Frank Rd	43223		1	1	TBD
Simply Self Storage	4600 Fisher Rd	43228		1	1	No Exposure Certification
South High Auto Parts	3040 S High St	43207		1	1	General Permit
Steer & Gear, Inc.	3459 E Fulton St	43227		1	1	No Exposure Certification
Steer & Gear, Inc.	1000 Barnett Rd	43227		1	1	No Exposure Certification
Sunrise Foods	2097 Corvair Blvd.	43207		1	1	General Permit
T Marzetti Company	3838 Indianola Ave	43214		1	1	General Permit
T Marzetti Company - Allen Division	1709 Frank Rd	43223		1	1	General Permit
The Tarrier Steel Company, Inc.	1379 S 22nd ST	43206		1	1	General Permit
Universal Auto Parts	1061 McKinley Ave	43222		1	1	TBD
Vertex Refining	4001 E. 5th Ave.	43219		1	1	General Permit
Vitale Poultry Company	1415 Universal Road	43207		1	1	No Exposure Certification
Welch Packaging	4700 Alkire Rd	43228	2/11/2021	1	1	No Exposure Certification eligible; Owner & OEPA notified
Wheel Medic, Inc.	2971 Silver Dr	43224		1	1	No Exposure Certification eligible; Owner & OEPA notified

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Action Resources	1484 Williams Road	43207		1	2	No Exposure Certification eligible; Owner & OEPA notified
Advantage Tank Lines, LLC	500 Manor Park Dr	43228		1	2	General Permit
Allied Fabricating & Welding Company	5699 Chantry Dr	43232		1	2	No Exposure Certification
Amcor Plastic Products	444 McCormick Blvd	43213		1	2	No Exposure Certification
American Limousine Service	1251 Alum Creek Dr	43209		1	2	No Exposure Certification
BB Bradley Company	2699 Scioto Pkwy	43221		1	2	No Exposure Certification
Berger Transfer & Storage, Inc.	1111 Milepost Dr	43228		1	2	No Exposure Certification eligible; Owner & OEPA notified
Bolton Field	2000 Norton Rd	43228	3/16/2021	1	2	General Permit
Budget Storage	3376 Refugee Rd	43232		1	2	TBD
Car-Go Self Storage	3613 Refugee Rd	43232	2/23/2021	1	2	No Exposure Certification eligible; Owner & OEPA notified
Car-Go-Self Storage	3935 Westerville Rd	43224		1	2	No Exposure Certification
Central Ohio Transit Authority	1330 Fields Ave	43201		1	2	No Exposure Certification
Central Ohio Transit Authority	1333 Fields Ave	43201		1	2	No Exposure Certification
Columbus Coach Transportation	3034 Lamb Ave.	43219		1	2	No Exposure Certification eligible; Owner & OEPA notified
Columbus Gasket and Supply Company	1875 Lone Eagle St	43228	4/21/2021	1	2	No Exposure Certification eligible; Owner & OEPA notified
Commercial Works, Inc.	1299 Boltonfield St	43228	6/29/2021	1	2	No Exposure Certification eligible; Owner & OEPA notified
Engineered Profiles LLC	2141 Fairwood Ave	43207		1	2	General Permit
Entrotech, Inc.	1245 Kinnear Rd	43212		1	2	No Exposure Certification
Environmental Enterprises, Inc.	645 E 8th Ave	43201		1	2	No Exposure Certification eligible; Owner & OEPA notified
Express Container	1795 Feddern Ave	43123		1	2	No Exposure Certification
Forward Air, Inc.	6750 Port Rd	43217	6/17/2021	1	2	No Exposure Certification
Great Value Storage	5301 Tamarack Cir E	43229		1	2	TBD
ISP Chemicals, Inc.	1979 Atlas St	43228		1	2	General Permit
J B Hunt Transport, Inc.	5435 Crosswind Dr	43228		1	2	General Permit
Junk King	819 Phillipi Rd	43228	5/28/2021	1	2	No Exposure Certification eligible; Owner & OEPA notified
Keystone Freight Corporation	2545 Parsons Ave	43207		1	2	No Exposure Certification
Lakefront Lines, Inc.	3152 E 17th Ave	43236		1	2	No Exposure Certification
Lexington Intermodal	1585 Frebis Road	43206	2/2/2021	1	2	No Exposure Certification eligible; Owner & OEPA notified
Local Waste Services, LLC	1300 S Columbus Airport Rd	43207		1	2	TBD
MedFlight	2827 W Dublin Granville Rd	43235		1	2	General Permit
Peebles-Herzog, Inc.	50 Hayden Ave	43222	1/26/2021	1	2	No Exposure Certification
Ppafco, Inc.	1096 Ridge St	43215	4/22/2021	1	2	No Exposure Certification
PS Plastics, Inc.	2020 Britains Ln	43224	2/19/2021	1	2	No Exposure Certification
Republic Services, Inc. - Reynolds Road Transfer Station	805 Reynolds Ave	43201		1	2	General Permit
Rolling Frito-Lay Sales, LP	6611 Broughton Ave	43213		1	2	General Permit
Royal Building Products - Formerly Exterior Portfolio, LLC North Plant	1550 Universal Rd	43207		1	2	General Permit
Royal Building Products - Formerly Exterior Portfolio, LLC South Plant	1441 Universal Rd	43207		1	2	General Permit
Rumpke Waste & Recycling	1191 Fields Ave	43201		1	2	General Permit
Saia LTL Freight	1717 Krieger St	43228	3/31/2021	1	2	General Permit
Signature Flight Support	4130 E. 5th Ave.	43219		1	2	General Permit
Spartan Logistics - Vehicle Maintenance Garage	4025 Lockbourne Industrial Pkwy	43207		1	2	General Permit

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Strawser Construction, Inc.	2021 Longwood Avenue	43123	3/18/2021	1	2	General Permit
Sygma Network, Inc.	2400 Harrison Rd	43204		1	2	General Permit
The Mason and Dixon Lines, Inc.	2950 International St	43228		1	2	TBD
Tubelite Company, Inc.	1224 Refugee Ln	43207		1	2	No Exposure Certification
Two Men and a Truck	5083 Westerville Rd	43231		1	2	No Exposure Certification
United Parcel Service -UPS Ground Freight Inc	3400 Refugee Rd	43232		1	2	General Permit
United States Postal Service	2323 Citygate Dr	43218	6/21/2021	1	2	No Exposure Certification
United States Postal Service	6316 Nicholas Dr	43235		1	2	No Exposure Certification
UPS Cartage Services, Inc.	1711 Georgesville Rd	43228		1	2	General Permit
USF Holland, Inc.	4800 Journal St	43228		1	2	General Permit
VAT, Inc. - Columbus Bus Compound	952 Brentnell Ave	43219		1	2	General Permit
Ward Transport & Logistics	1601 McKinley Ave	43222		1	2	No Exposure Certification
Able Printing Company	1325 Holly Ave	43212		1	3	No Exposure Certification
Access Corporation	2612 Walcutt Road	43026		1	3	No Exposure Certification eligible; Owner & OEPA notified
Access Corporation	2500 Charter St	43228		1	3	No Exposure Certification eligible; Owner & OEPA notified
Advance Apex Companies	2375 Harrisburg Pike	43123		1	3	No Exposure Certification
Affordable Granite	5664 Westbourne Ave	43213		1	3	No Exposure Certification
Alliance Data Systems Corporation	6939 Americana Pkwy	43068		1	3	No Exposure Certification
Allied Sign Company	818 Marion Rd	43207		1	3	No Exposure Certification
Alvito Custom Imprints	726 E Lincoln Ave	43229		1	3	No Exposure Certification
Amazon, LLC	3563 Interchange Rd	43204	9/29/2021	1	3	NOE Certification Eligible; Owner & OEPA notified 09/29/2021.
American Orthopedics, Inc.	1151 W 5th Ave	43212		1	3	No Exposure Certification
Auddino's Italian Bakery	1490 Clara Ave	43211		1	3	No Exposure Certification
B & G Tool Company	4832 Kenny Rd	43220		1	3	No Exposure Certification eligible; Owner & OEPA notified
Battery Shop of Columbus	1410 E. 17th Ave	43211		1	3	General Permit
Beaumont American Inc.	1473 Showcase Dr	43212		1	3	No Exposure Certification
Beckman XMO	376 Morrison Rd, Ste D	43213		1	3	No Exposure Certification
Bell Optical	3671 Interchange Rd	43204		1	3	No Exposure Certification
Boss Display Corporation	1975 Galaxie St	43207		1	3	No Exposure Certification
Bowman Industries, Inc.	857 King Ave	43212		1	3	General Permit
Briskheat Corp.	4800 Hilton Corporate Dr.	43232		1	3	No Exposure Certification
Brothers Drake Meadery	26 E 5th Ave	43201		1	3	No Exposure Certification eligible; Owner & OEPA notified
Budget Storage	6805 Commerce Court Dr	43004		1	3	No Exposure Certification
Camelot Cellars	958 N High St	43201	10/15/2021	1	3	No Exposure Certification eligible; Owner & OEPA notified
Cap & Associates, Inc.	445 McCormick Blvd	43213		1	3	No Exposure Certification
Cardinal Transportation Ltd	700 Harrison Drive	43204		1	3	General Permit
City of Columbus Police Heliport	2130 W Broad Street	43223		1	3	General Permit
Clark Graphics, Inc.	1550 N Wilson Rd	43204		1	3	No Exposure Certification
Cloverleaf Cold Storage	2350 New World Dr	43207		1	3	No Exposure Certification
Columbus Glass Block	3091 E 14th Ave	43219		1	3	No Exposure Certfication
Concept Wear	950 Oakland Park Ave	43224		1	3	No Exposure Certification
Cube Smart	3344 Morse Rd	43231		1	3	No Exposure Certification
CubeSmart	4061 Roberts Rd	43228		1	3	TBD
CubeSmart Self Storage	5252 Nike Dr	43026		1	3	No Exposure Certification

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
CubeSmart Self Storage	3391 S High St	43207		1	3	No Exposure Certification
CubeSmart Self Storage	5411 W Broad St	43228		1	3	No Exposure Certification
CubeSmart Self Storage	1531 Georgesville Rd	43228	1/26/2021	1	3	No Exposure Certification eligible; Owner & OEPA notified
Dublin Road Mini Storage, LLC	2087 Dublin Rd	43228		1	3	No Exposure Certification
Engineered Marble, Inc.	4064 Fisher Rd	43228		1	3	No Exposure Certification
English Bay Batter, Inc.	2241 Citygate Dr	43219		1	3	No Exposure Certification
Essilor of America	2400 Spiegel Dr.	43125		1	3	No Exposure Certification
Extra Space Storage	191 N Wilson Rd	43204		1	3	No Exposure Certification
Extra Space Storage	4616 Kenny Rd	43220		1	3	No Exposure Certification
Extra Space Storage	2160 Innis Road	43224		1	3	No Exposure Certification
Extra Space Storage	2087 S Hamilton Rd	43232		1	3	No Exposure Certification
Extra Space Storage	2148 Cloverleaf Dr E	43232		1	3	No Exposure Certification
Extra Space Storage	3015 W Dublin Granville Rd	43235		1	3	No Exposure Certification
Fastsigns	205 E Broad St	43215		1	3	No Exposure Certification
Fellers, Inc.	3777 Business Park Dr, Ste D	43204		1	3	No Exposure Certification
Franklin International, Inc.	2020 Bruck St	43207		1	3	General Permit
Glass Axis	610 W Town St	43215	3/30/2021	1	3	No Exposure Certification
Great Value Storage	9984 S Old State Rd	43035	9/14/2021	1	3	NOE Certification Eligible; Owner & OEPA notified 09/15/2021.
Great Value Storage	7200 Tussing Road	43068		1	3	No Exposure Certification
Great Value Storage	5199 Westerville Rd	43230		1	3	No Exposure Certification
Industrial Pattern & Manufacturing Company	899 N 20th St	43219		1	3	No Exposure Certification
IRG Realty Advisors, LLC	4545 Fisher Rd.	43228		1	3	No Exposure Certification
Jet Container Company	1033 Brentnell Avenue	43219		1	3	No Exposure Certification
Jordan Manwaring (Extra Space Storage)	2929 Dublin Rd	43026		1	3	No Exposure Certification
Key Finishes, LLC	727 Harrison Dr	43204		1	3	No Exposure Certification
Kyron Tool & Machine Company, Inc.	2900 Banwick Rd	43232		1	3	No Exposure Certification
Land Grant Brewing Company	424 W Town St	43215	4/9/2021	1	3	No Exposure Certification
Landon Vault Co.	1477 Frebis Ave	43206		1	3	General Permit
Lehner Signs, Inc.	2983 Switzer Ave	43219		1	3	No Exposure Certification
Life Storage	4735 Evanswood Dr	43229		1	3	No Exposure Certification
LSI ADL Technology	2727 Scioto Pkwy	43221		1	3	No Exposure Certification
Magnum Products	3939 E. 5th St.	43219		1	3	General Permit
MBM Ohio	4300 Diplomacy Dr	43228		1	3	No Exposure Certification
McGraw-Hill Education (Polaris Facility)	8787 Orion Pl	43240		1	3	No Exposure Certification
Medcare Ambulance	3699 Paragon Drive	43228		1	3	No Exposure Certification
Metamateria	870 Kaderly Drive	43228		1	3	No Exposure Certification eligible; Owner & OEPA notified
Meyer Machine Tool Company	3434 E 7th Ave	43219		1	3	No Exposure Certification
Middle West Spirits	470 E. Starr	43201		1	3	No Exposure Certification eligible; Owner & OEPA notified
Mid-Ohio Electric Company	1170 McKinley Ave	43222	1/26/2021	1	3	No Exposure Certification
Mobile-Shop Company, LLC	5089 Westerville Rd	43231		1	3	TBD
Mont Granite, Inc.	2365 Setterlin Dr	43228	7/22/2021	1	3	No Exposure Certification
Morrison Sign Company, Inc.	2757 Scioto Pkwy	43221		1	3	No Exposure Certification
Mr. Meatball Italian food Products	3716 Cleveland Ave	43224		1	3	No Exposure Certification
Network Global Logistics	1500 Commodity Blvd	43137		1	3	TBD
Nifco, Inc.	2435 Spiegel Dr	43125		1	3	No Exposure Certification
North High Brewing	1125 Cleveland Ave	43201		1	3	No Exposure Certification

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
North Shore Stone, Inc.	915 Manor Park Dr	43228		1	3	General Permit
Old Trail Printing Company	100 Fornoff Rd	43207		1	3	No Exposure Certification
Omnitech Electronics, Inc.	5090 Trabue Rd	43228		1	3	No Exposure Certification
Pasta Ditonis, Inc.	733 N James Rd	43219		1	3	No Exposure Certification eligible; Owner & OEPA notified
Premier CounterTop Sales & Service, LLC	5767 Westbourne Ave	43213		1	3	No Exposure Certification
Pretentious Barrel House	745 Taylor	43219		1	3	No Exposure Certification
Printpro, Inc.	760 Busch Ct	43229	1/21/2021	1	3	No Exposure Certification eligible; Owner & OEPA notified
Public Storage	5711 Westerville Rd	43081	9/14/2021	1	3	NOE Certification Eligible; Owner & OEPA notified 09/15/2021.
Public Storage	7535 Alta View Blvd	43085		1	3	No Exposure Certification
Public Storage	5275 Gender Rd	43110		1	3	No Exposure Certification
Public Storage	4600 Kenny Rd	43220	2/19/2021	1	3	No Exposure Certification
Public Storage	4511 Eastland Dr	43232		1	3	No Exposure Certification eligible; Owner & OEPA notified
Public Storage	2655 Billingsley Rd	43235		1	3	No Exposure Certification
Rambling House Soda	2632 N High St, Unit A	43202	9/17/2021	1	3	NOE Certification Eligible; Owner & OEPA notified 09/17/2021.
Rickly Hydrological Company, Inc.	1700 Joyce Ave	43219	3/3/2021	1	3	No Exposure Certification
RJM Stamping Company	1641 Universal Rd	43207		1	3	No Exposure Certification
Robey Tool & Machine	1593 E 5th Ave	43219		1	3	No Exposure Certification
Sherwin-Williams Company	2121 New World Dr	43207		1	3	General Permit
Simply Self Storage	7304 Tussing Rd	43068		1	3	No Exposure Certification
Simply Self Storage	810 E Cooke Rd	43214	2/10/2021	1	3	No Exposure Certification
Smokehouse Brewing Company	1130 Dublin Rd	43215	4/29/2021	1	3	No Exposure Certification
Snyder Brick & Block	3180 Valleyview Dr	43201		1	3	General Permit
Somewhere in Particular	5055 Dieker Road	43220		1	3	No Exposure Certification
Specialty Services Cabinetry	1382 Ohlen Ave	43211		1	3	No Exposure Certification
Sterling Process Engineering & Services, Inc.	333 McCormick Blvd	43213		1	3	No Exposure Certification
Stone Center, LLC	1736 McKinley Ave	43222	5/25/2021	1	3	TBD
Storage Express	5621 Chatterton Rd	43232	2/25/2021	1	3	No Exposure Certification eligible; Owner & OEPA notified
Studio AMG, LLC	6344 Nicholas Dr	43235		1	3	No Exposure Certification
Swan Freedom	1320 McKinley Ave, Suite A	43222		1	3	No Exposure Certification
The Flag Lady's Flag Store	4567 N High St	43214	2/24/2021	1	3	No Exposure Certification
The Ink Well	1939 E Dublin Granville Rd	43229	1/20/2021	1	3	No Exposure Certification eligible; Owner & OEPA notified
The ScareFactory, Inc.	350-C McCormick Blvd	43213		1	3	No Exposure Certification
Tri Village Self Storage	5235 Avery Run Rd.	43016		1	3	No Exposure Certification
Trio Insulated Glass, Inc.	1094 McKinley Ave	43222	6/29/2021	1	3	No Exposure Certification
Uncle Bob's Self Storage	851 W Henderson Rd	43214	2/24/2021	1	3	No Exposure Certification
Uncle Chuck's Printing and Signs	2541 W Broad St	43204		1	3	No Exposure Certification
United Converting	3960 Groves Rd, Unit B	43232		1	3	No Exposure Certification
Universal Paper and Plastics	521 Marion Rd	43207		1	3	TBD
Upright Press	2060 S High St	43207		1	3	No Exposure Certification
Urban Express Charter/PDQ Transportation	1640 E 5th Ave	43219		1	3	General Permit
Vellus Products Inc.	6490 Fiesta Drive	43225		1	3	No Exposure Certification
Via Vecchia Winery	486 S Front St	43215	6/2/2021	1	3	No Exposure Certification
Wild Ohio Brewing	2025 S. High	43207		1	3	No Exposure Certification

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Wolf Composite Solutions	3991 Fondorf Dr	43228		1	3	No Exposure Certification
Yazaki North America	5353 Fisher Rd	43228	1/26/2021	1	3	No Exposure Certification eligible; Owner & OEPA notified
Zaftig Brewing	7020A Huntley Road	43229		1	3	No Exposure Certification
Sentek Corporation	1300 Memory Lane North	43209		1	3	No Exposure Certification

2021 Category 2 Industries

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Abbott Nutrition	3300 Stelzer Rd	43219	6/29/2021	2	1	No Exposure Certification
Accurate IT Services	3854 Fisher Road	43228		2	1	No Exposure Certification
Acrodyne Manufacturing Company	41 Kingston Ave	43207		2	1	No Exposure Certification
Action Group, Inc.	411 Reynoldsburg New Albany Rd N	43004		2	1	No Exposure Certification
Aerospace Lubricants, Inc.	1600 Georgesville Rd	43228		2	1	No Exposure Certification
All Foreign Used Auto Parts, Inc.	500 N Wilson Rd	43204		2	1	General Permit
Alro Steel Corp	555 Hilliard Rome Rd	43228		2	1	No Exposure Certification
Amazon.com Services	3800 Lockbourne Industrial Parkway	43207		2	1	No Exposure Certification
Atlapac Corporation	2901 E 4th Ave	43219		2	1	No Exposure Certification
AY Manufacturing Ltd	5200 Crosswind Dr	43228		2	1	No Exposure Certification
Ball Metal Food Container Corporation	2690 Charter St	43228		2	1	No Exposure Certification
Benchmark by Kingspan	720 Marion Rd	43207		2	1	No Exposure Certification
Birchwood Foods, Inc.	1821 Dividend Dr	43228		2	1	General Permit
Bodycote Thermal Processing, Inc.	1515 Universal Rd	43207		2	1	No Exposure Certification
Bonded Chemicals, Inc.	2645 Charter St	43228		2	1	No Exposure Certification
Buck Equipment, Inc.	1720 Feddern Ave	43123		2	1	No Exposure Certification
Buckeye Metal Works, Inc.	3240 Petzinger Rd	43232	1/22/2021	2	1	No Exposure Certification
Capitol Waste & Recycling Services, LLC	321 Dering Ave	43207		2	1	General Permit
Certified Oil, Inc.	949 King Ave	43212		2	1	TBD
Clean Water Ltd.	2480 Jackson Pike	43223		2	1	No Exposure Certification
Columbus Auto Shredding/U Part It	2181 Alum Creek Dr & 2338 Refugee Rd	43207		2	1	General Permit
Columbus Powder Coating	876 N 20th St	43219		2	1	No Exposure Certification
Container Management Company, LLC	1200 Corrugated Way	43201		2	1	No Exposure Certification
ContainerPort Group, Inc.	2400 Creekway Dr	43207		2	1	General Permit
Core Molding Technologies, Inc.	800 Manor Park Dr	43228		2	1	General Permit
COW Industries, Inc.	1875 Progress Ave	43207		2	1	No Exposure Certification
CSX Intermodal	2351 Westbelt Dr	43228		2	1	General Permit
Cumberlander Refuse, LLC	1972 S Champion Ave	43207		2	1	No Exposure Certification
Decker Construction Company	3040 McKinley Ave	43204		2	1	General Permit
Defabco, Inc.	3765 E Livingston Ave	43227		2	1	No Exposure Certification
Dell Fixtures, Inc.	321 Dering Ave	43207		2	1	No Exposure Certification
EFCO Corporation	3900 Zane Trace Dr	43228		2	1	No Exposure Certification
Environmental Reclaim, LLC	3900 Sullivant Ave	43228		2	1	No Exposure Certification
Evans Adhesive Corporation Ltd.	925 Old Henderson Rd	43220		2	1	No Exposure Certification
Ezzo Sausage Company	683 Manor Park Dr	43228		2	1	No Exposure Certification
Farber Specialty Vehicles, Inc.	7052 Americana Pkwy	43068		2	1	No Exposure Certification
Fortin Ironworks, Inc.	1132 W 3rd Ave	43212		2	1	No Exposure Certification
Fortin Ironworks, Inc.	944 W 5th Ave	43212		2	1	No Exposure Certification
G-Cor Automotive Corporation	2100 Refugee Rd	43207		2	1	General Permit
G-Cor Automotive Corporation Surplus	2025 Corvair Ave	43207		2	1	No Exposure Certification
Georgia-Pacific Chemicals, LLC	1975 Watkins Rd	43207		2	1	General Permit
GFS Chemicals, Inc.	851 McKinley Ave	43222		2	1	General Permit
Glenn Avenue Soap Company	1166 W 5th Ave	43212		2	1	No Exposure Certification
Goodale Auto-Truck Parts Co., Inc.	1100 E 5th Ave	43201		2	1	No Exposure Certification
Graffiti Foods, Inc.	333 Outerbelt St	43213		2	1	No Exposure Certification
Green Earth Recycling	2932 Brice Rd, Bldg #9	43109		2	1	General Permit
Hamilton Tanks, LLC	2200 Refugee Rd	43207		2	1	General Permit

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Herman Falter Packing Company	384 Greenlawn Ave	43223		2	1	No Exposure Certification
Hirschvogel, Inc.	2230 S 3rd St	43207		2	1	General Permit
Hite Parts Exchange, Inc.	2235 McKinley Ave	43204		2	1	No Exposure Certification
I H Schlezinger, Inc.	2040 S Parsons Ave	43207		2	1	No Exposure Certification
I. H. Schlezinger, Inc.	1041 Joyce Ave	43219		2	1	General Permit
Jacobi Carbons, Inc.	432 McCormick Blvd	43213		2	1	No Exposure Certification
Jones Lumber & Millwork Co.	57 N Sylvan Ave	43204		2	1	No Exposure Certification
Kaffenbarger Truck Equipment Company	2310 Refugee Rd	43207		2	1	No Exposure Certification
Karn Meats, Inc.	922 Taylor Ave	43219		2	1	No Exposure Certification
Lambert Sheet Metal, Inc.	3776 E 5th Ave	43219		2	1	No Exposure Certification
Lamit Industries, Inc.	710 Marion Rd	43207		2	1	No Exposure Certification
Mars Petcare, Inc.	5115 Fisher Rd	43228		2	1	General Permit
Masser Metals & Recycling	3103 Lamb Ave	43219		2	1	General Permit
Materials Science International, Inc.	1660 Georgesville Rd	43228		2	1	No Exposure Certification
McGlennon Metal Products, Inc.	940 N 20TH St	43219		2	1	No Exposure Certification
Microweld Engineering, Inc.	7451 Oakmeadows Dr	43085		2	1	No Exposure Certification
Mills Metal Finishing, Inc.	1967-1977 McAllister Ave	43205		2	1	No Exposure Certification
Milspin	665 Hague Ave	43204		2	1	No Exposure Certification
MW Industries, Inc. - Capital Spring Division	2000 Jetway Blvd	43219		2	1	No Exposure Certification
Nelson Company	1951 Galaxie St	43207		2	1	No Exposure Certification
Norfolk Southern Corporation	2450 Fairwood Ave	43207		2	1	General Permit
NovoTec Recycling, LLC	3960 Groves Rd	43232		2	1	General Permit
Ohio Anodizing Company, Inc.	915 N 20th St	43219		2	1	No Exposure Certification
Ohio Label, Inc.	5005 Transamerica Dr	43228		2	1	No Exposure Certification
Ohio Mulch Supply	2140 Advance Ave	43207		2	1	General Permit
Ohio Wire Form & Spring Company	2270 S High St	43207		2	1	No Exposure Certification
Pactiv LLC	2120 Westbelt Dr	43228		2	1	General Permit
Pactiv, LLC	1999 Dividend Dr	43228		2	1	No Exposure Certification
Panacea Products Corporation	1825 Joyce Ave	43219		2	1	No Exposure Certification
Panacea Products Corporation	2711 International St	43228		2	1	No Exposure Certification
Peter K. Case	994 Frank Rd	43223		2	1	No Exposure Certification
Phillips Oil Company	1877 McKinley Ave	43222	2/10/2021	2	1	No Exposure Certification
PHPK Technologies	2111 Builders Pl	43204	9/29/2021	2	1	No Exposure Certification
Pinnacle Metal Products, Inc.	1701 Woodland Ave	43219		2	1	No Exposure Certification
Pressure Connections Corporation	610 Claycraft Rd	43230		2	1	No Exposure Certification
PSC Metals, Inc.	2205 Parsons Ave	43207		2	1	General Permit
PSC Metals, Inc.	1283 Joyce Ave	43219		2	1	General Permit
Quadra-Tech, Inc.	864 E Jenkins Ave	43207		2	1	No Exposure Certification
Quality Bakery Company	50 N Glenwood Ave	43222		2	1	No Exposure Certification
RelaDyne - Oil Distributing Company	2181 Hardy Parkway St	43123		2	1	General Permit
Resale Technologies	3065 E. 14th Ave.	43219		2	1	No Exposure Certification
Royal Paper Stock Company	1300 Norton Rd	43228		2	1	No Exposure Certification
Scholz & Ey Engravers, Inc.	1558 Parsons Ave	43207		2	1	No Exposure Certification
SCI Engineered Materials, Inc.	2839 Charter St	43228		2	1	No Exposure Certification
Scriptel Corporation	2178 Dividend Dr	43228		2	1	No Exposure Certification
Select Seating Group	862 E Jenkins Ave	43207		2	1	No Exposure Certification
Simpson Strong-Tie Company, Inc.	2600 International St	43228		2	1	No Exposure Certification

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Skeeles Manufacturing, Inc.	4040 Fondorf Dr	43228		2	1	No Exposure Certification
Smith Dodson Lumber & Millwork	200 Colton Rd	43207		2	1	No Exposure Certification
Spillman Company	1701 Moler Rd	43207		2	1	General Permit
Style-Rite Aluminum Awnings	572 S Nelson Rd, #N	43205		2	1	No Exposure Certification
Superior Die Tool & Machine Company	2301 Fairwood Ave	43207		2	1	General Permit
Superior Die Tool & Machine Company	1405 Marion Rd	43207		2	1	General Permit
Superior Welding Company	906 S Nelson Rd	43205		2	1	No Exposure Certification
Syscom Advanced Materials, Inc.	1255 Kinnear Rd, Ste 5	43212		2	1	No Exposure Certification
T Marzetti Co (R&D Technical Services)	3900 Indianola Ave	43214	2/4/2021	2	1	No Exposure Certification
Team Industrial Services, Inc.	3005 Silver Dr	43224		2	1	No Exposure Certification
Thurn's Specialty Meats	530 Greenlawn Ave	43223		2	1	No Exposure Certification
Transmet Corporation	4290 Perimeter Dr	43228		2	1	No Exposure Certification
Trulite Glass and Aluminum Solutions	2395 Setterlin Rd	43228		2	1	No Exposure Certification
Tubular Techniques Corporation	3025 Scioto Darby Executive Ct	43026		2	1	No Exposure Certification
United Alloys & Metals, Inc.	1177 Joyce Ave	43219		2	1	No Exposure Certification
United McGill Corporation	1779 Refugee Rd	43207		2	1	No Exposure Certification
United Security Seals, Inc.	2000 Fairwood Ave	43207		2	1	No Exposure Certification
V & S Columbus Galvanizing, LLC	987 Buckeye Park Rd	43207		2	1	General Permit
VanDyke Custom Iron, LLC	311 Outerbelt St	43213	1/26/2021	2	1	No Exposure Certification
Vertiv North America	1050 Dearborn Dr	43085		2	1	General Permit
Wasem Packaging and Crating Service (Evdon Corporation)	2591 Harrison Rd	43204		2	1	No Exposure Certification
WestRock	1015 Marion Rd	43207		2	1	General Permit
Wolf Metals, Inc.	1625 W Mound St	43223		2	1	No Exposure Certification
Worthington Industries, Inc./Wothington Cyclinder Corporation	1085/1205 Dearborn Dr	43085		2	1	General Permit
Worthington Steel Company	1127 Dearborn Dr	43085		2	1	No Exposure Certification
XPO Logistics Con-way Freight	2625 Westbelt Dr	43228		2	1	General Permit
Yenkin-Majestic Paint Corporation	1920 Leonard Ave	43219		2	1	General Permit
A&R Transport, Inc.	1230 Harmon Ave	43223		2	2	General Permit
ABF Freight System, Inc.	1720 Joyce Ave	43219		2	2	General Permit
Allied Custom Molded Products, Inc.	1240 Essex Ave	43201		2	2	No Exposure Certification
All-State Belting LLC	6951 Alan Schwartzwalder St.	43217		2	2	No Exposure Certification
Amatech Polycel, LLC	1633 Woodland Ave	43219		2	2	No Exposure Certification
Andrews Moving And Storage	2500 Charter St	43228		2	2	No Exposure Certification
Arch Express Transportation	1637 E Livingston Ave	43205		2	2	No Exposure Certification
Central Ohio Transit Authority	1600 McKinley Ave	43222		2	2	No Exposure Certification
Central Transport, Inc.	2450 Sobeck Rd	43232	3/25/2021	2	2	General Permit
City of Columbus Alum Creek Transfer Station	2100 Alum Creek Dr	43207		2	2	General Permit
City of Columbus Georgesville Road Transfer Station	1550 Goergesville Rd	43228		2	2	General Permit
City of Columbus Morse Road Transfer Station	4260 Morse Rd	43230		2	2	General Permit
Columbus Distributing Company	4949 Freeway Dr E	43229		2	2	No Exposure Certification
Columbus Green Cab, Inc.	1989 Camaro Ave	43207		2	2	No Exposure Certification
Consolidated Container Company (CCC) LP/Ohio State Facility/AKA Ohio State	1917 Joyce Ave	43219		2	2	General Permit
COTA	1333 Fields Ave	43201		2	2	No Exposure Certification
Crete Carrier Corporation	5400 Crosswind Dr	43228		2	2	General Permit
Dura-Belt, Inc.	3119 Scioto Darby Executive Ct	43026		2	2	No Exposure Certification
Dynamex, Inc. (TF Fine Mile, LLC)	3840 Twin Creeks Dr	43204		2	2	No Exposure Certification
Envoy Air, Inc.	4100 E 5th Ave, Hanger 7	43219		2	2	No Exposure Certification

2021 Category 2 Industries

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
FedEx Ship Center (FedEx Express - OSUA)	2424 Citygate Dr	43219		2	2	No Exposure Certification
FedEx Ship Center (FedEx Express -CMHA)	2850 International St	43228		2	2	No Exposure Certification
Freedom Transport, Inc.	1879 Federal Pkwy	43207		2	2	No Exposure Certification
FST Logistics, Inc.	5400 Renner Rd	43228		2	2	No Exposure Certification
Genpak, LLC	845 Kaderly Dr	43228		2	2	General Permit
Great Value Storage	1330 Georgesville Rd	43228		2	2	No Exposure Certification
Greyhound Lines, Inc.	111 E Town St	43215		2	2	General Permit
Guardian Relocation	1570 Integrity Dr E	43209		2	2	No Exposure Certification
Heartland Express, Inc.	1800 Lone Eagle St	43228	6/23/2021	2	2	No Exposure Certification
Heidelberg Distributing Company	3801 Parkwest Dr	43228		2	2	No Exposure Certification
Hi-Lite Plastic Products	3760 E 5th Ave	43219		2	2	No Exposure Certification
Hogan Truck Leasing, Inc.	2550 Westbelt Dr	43228		2	2	General Permit
International Bulk Services (Watco Companies)	5075 Fisher Rd	43228		2	2	No Exposure Certification
J & R Schugel Trucking, Inc.	4630 Journal St	43228		2	2	No Exposure Certification
Jones Fuel Company	350 Frank Rd	43207		2	2	General Permit
Knight Transportation, Inc.	4275 Westward Ave	43228		2	2	General Permit
Leaders Moving & Storage Company	7455 Alta View Blvd	43085		2	2	No Exposure Certification
LV Trucking, Inc.	2440 Harrison Rd	43204		2	2	No Exposure Certification
NAPA Transportation Inc	1484 Williams Road	43207		2	2	No Exposure Certification
Ohio Foam Corporation	1513 Alum Creek Dr	43209		2	2	No Exposure Certification
Ohio State University Airport	2160 W Case Rd	43017		2	2	General Permit
Old Dominion Freight Line, Inc.	2885 Alum Creek Dr	43207		2	2	General Permit
Pitt Ohio Express, LLC	2101 Hardy Parkway St	43123		2	2	General Permit
Planes Commercial Services	2131 Dividend Dr	43228		2	2	No Exposure Certification
Planes Commercial Services	2000 Dividend Dr	43228		2	2	No Exposure Certification
Plaskolite, Inc.	1770 Joyce Ave	43219		2	2	General Permit
Plastic Suppliers, Inc.	2400 Marilyn Park Ln	43219		2	2	General Permit
Possible Plastics, Inc.	1620 Feddern Ave, Bldg B	43123		2	2	No Exposure Certification
Precision Polymers, Inc.	6219 Americana Pkwy	43068		2	2	No Exposure Certification
Premier Office Movers, LLC	3915 Zane Trace Dr	43228		2	2	No Exposure Certification
Quality Service Products	528 E Hudson St	43202	9/17/2021	2	2	No Exposure Certification
Republic Services	933 Frank Road	43223		2	2	General Permit
Rosati Windows	4200 Roberts Rd	43228		2	2	No Exposure Certification
S&T Truck & Auto Service, Inc.	3150 Valleyview Dr, #8	43204		2	2	No Exposure Certification
Savko Plastic Pipe & Fittings	683 E Lincoln Ave	43229		2	2	No Exposure Certification
Signature Cabinetry, Inc.	1285 Alum Creek Dr	43209		2	2	No Exposure Certification
Stericycle, Inc.	2341 Lockbourne Rd	43207		2	2	No Exposure Certification
Swift Transportation Company	4141 Parkwest Dr	43228		2	2	General Permit
Transflo Terminal Services, Inc.	3100 Lockbourne Rd	43207		2	2	General Permit
United Parcel Service-UPS Trabue	5101 Trabue Rd	43228		2	2	General Permit
United States Postal Service	850 Twin Rivers Dr	43216	5/26/2021	2	2	No Exposure Certification
W W Transport, Inc.	405 Commerce Sq	43228		2	2	No Exposure Certification
Wolf's Ridge Brewing	215 N 4th St	43215	6/2/2021	2	2	No Exposure Certification
YRC Freight, Inc.	5400 Fisher Rd	43228		2	2	No Exposure Certification
Accurate Manufacturing Company	1940 Lone Eagle St	43228		2	3	No Exposure Certification
Advanced Fuel Systems, Inc.	841 Alton Ave, Ste B	43219		2	3	No Exposure Certification
AHMF, Inc.	2245 Wilson Rd	43228		2	3	No Exposure Certification

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Akzo Nobel Coatings, Inc.	1313 Windsor Ave	43211		2	3	General Permit
Allied Mineral Products, Inc.	2700 Scioto Pkwy	43221		2	3	General Permit
American Furukawa, Inc.	2181 International St	43228		2	3	No Exposure Certification
American Kenda Rubber Industrial Company Ltd	7095 Americana Pkwy	43068		2	3	No Exposure Certification
American LED-gible, Inc.	1776 Lone Eagle St	43228		2	3	No Exposure Certification
Ametek Solidstate Controls, Inc.	875 Dearborn Dr	43085		2	3	No Exposure Certification
Anderson Aluminum Corporation	2816 Morse Rd	43231		2	3	No Exposure Certification
Anheuser Busch, Inc.	700 Schrock Rd	43229		2	3	General Permit
Anthony Thomas Candy Company	1777 Arlingate Ln	43228		2	3	No Exposure Certification
Aqua Science, Inc.	1877 E 17th Ave	43219	6/29/2021	2	3	No Exposure Certification
Art Brands, LLC	225 Business Center Dr	43004		2	3	No Exposure Certification
Auld Technologies, LLC	2030 Dividend Dr	43228		2	3	No Exposure Certification
Baise Quality Printing	695 Koebel Ave	43207		2	3	No Exposure Certification
Barley's Brewing Company	467 N High St	43215	3/17/2021	2	3	No Exposure Certification
Beck & Orr Corporation	3097 W Broad St	43204		2	3	No Exposure Certification
Beckenhorst Press, Inc.	960 Old Henderson Rd	43220		2	3	No Exposure Certification
Best Supply, Inc.	1885 O'Brien Rd	43228		2	3	No Exposure Certification
Bexley Pen Company, Inc.	2840 Fisher Rd # B	43204		2	3	No Exposure Certification
Big Lots Stores, Inc.	500 Phillipi Rd	43228		2	3	No Exposure Certification
Blacco Splicing & Rigging Loft, Inc.	1976 Alum Creek Dr	43207		2	3	No Exposure Certification
Blue Line Foodservice Distribution	2250 Spiegel Dr, Ste P	43125		2	3	No Exposure Certification
Boehm, Inc.	2050 Hardy Parkway St	43123		2	3	No Exposure Certification
C. Krueger's Finest Baked Goods	6845 Commerce Court Drive	43004		2	3	No Exposure Certification
C.H. Bradshaw Company	2004 Hendrix Dr	43123		2	3	No Exposure Certification
Campus Printing	2415 N High St	43202		2	3	No Exposure Certification
Candle With A Cause	659 N James Rd	43219		2	3	No Exposure Certification
Capital City Awning	577 N 4th St	43215	3/17/2021	2	3	No Exposure Certification
Capital Prosthetic and Orthotic, Inc.	4678 Larwell Dr	43220		2	3	No Exposure Certification
Cardinal Container Corporation	3700 Lockbourne Rd	43207		2	3	No Exposure Certification
Carfagna's Italian Foods, LLC	3518 Johnny Appleseed Ct	43231		2	3	No Exposure Certification
Car-Go-Self Storage (Sandilan Management Corporation)	490 N Hamilton Rd	43219		2	3	No Exposure Certification
Casino Self Storage	3300 W Broad St	43204		2	3	No Exposure Certification
Casino Self Storage	480 Exchange Dr	43228		2	3	No Exposure Certification
CEVA Logistics	2727 London Groveport Rd	43125		2	3	No Exposure Certification
Chester A Smith, Inc. Marble & Granite	1330 Norton Ave	43212		2	3	No Exposure Certification
City of Columbus Compost Facility	7000 Jackson Pike	43137	12/17/2021	2	3	General Permit
City of Columbus Jackson Pike WWTP	2104 Jackson Pike	43223	8/31/2021	2	3	General Permit
City of Columbus Southerly WWTP	6977 S High St	43137	8/20/2021	2	3	General Permit
Coalescence, LLC	3455 Millennium Ct	43219		2	3	No Exposure Certification
Coca-Cola Refreshments	2455 Watkins Rd	43207		2	3	No Exposure Certification
Columbus Brewing Company	2555 Harrison Rd	43204		2	3	No Exposure Certification
Columbus Cold Storage	2159 Lockbourne Rd	43207		2	3	General Permit
Columbus Controls, Inc.	3573 Johnny Appleseed Ct	43231		2	3	No Exposure Certification
Columbus Glass & Mirror, Inc.	3034 Lamb Ave	43219		2	3	No Exposure Certification
Columbus Instruments International Corporation	950 N Hague Ave	43204		2	3	No Exposure Certification
Columbus Machine Works, Inc.	2491 Fairwood Ave, Ste 200	43207		2	3	No Exposure Certification
Columbus Sign Company	1515 E 5th Ave	43219		2	3	No Exposure Certification

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Composite Trade Printing	1757 Westbelt	43228		2	3	No Exposure Certification
Conn's Potato Chip Company, Inc.	1271 Alum Creek Dr	43209		2	3	No Exposure Certification
Custom Sign Center	3200 Valleyview Dr	43204		2	3	No Exposure Certification
Daifuku America Corporation	6700 Tussing Rd	43068		2	3	No Exposure Certification
Dancor, Inc.	2155 Dublin Rd	43228		2	3	No Exposure Certification
Dee Printing, Inc.	4999 Transamerica Dr	43228		2	3	No Exposure Certification
Dick Cold Storage	3080/3100 Valleyview Dr	43204		2	3	General Permit
Digico Imaging, Inc.	3487 E Fulton St	43227		2	3	No Exposure Certification
Distinctive Surfaces, Inc.	5158 Sinclair Rd	43229		2	3	No Exposure Certification
Dr. Pepper Snapple Group	950 Stelzer Rd	43219		2	3	No Exposure Certification
Dura-Belt, Inc.	2909 Scioto Darby Executive Ct	43026		2	3	No Exposure Certification
Ernst Concrete	711 A Stimmel Rd	43223		2	3	General Permit
Ernst Concrete	4252 Truro Station Rd	43232		2	3	General Permit
Ernst Concrete, Inc.	569 N Wilson Rd	43228		2	3	General Permit
Extra Space Storage	5660 W Broad St	43228		2	3	No Exposure Certification
Fastsigns	2829 Festival Ln	43017		2	3	No Exposure Certification
FedEx Office Print & Ship Center	5800 Frantz Rd	43016		2	3	No Exposure Certification
FedEx Office Print & Ship Center	4516 Kenny Rd	43220		2	3	No Exposure Certification
FedEx Office Print & Ship Center	8733 Sancus Blvd	43240		2	3	No Exposure Certification
Five Star Store It	4111 Groves Rd	43232		2	3	No Exposure Certification
Frank Brunckhorst Company, LLC	2225 Spiegel Dr	43125		2	3	No Exposure Certification
Fred D Pfening Company	1075 W 5th Ave	43212		2	3	No Exposure Certification
Fred D Pfening Company	1372 Oxley Rd	43212		2	3	No Exposure Certification
FST Logistics, Inc.	1727 Georgesville Rd	43228		2	3	No Exposure Certification
G & J Pepsi-Cola Bottlers, Inc.	1241 Gibbard Ave	43219		2	3	General Permit
G2 Print Plus	3787 Interchange Rd	43204		2	3	No Exposure Certification
Gateway Self Storage	750 E 11th Ave	43211		2	3	No Exposure Certification
Generals Books & Blue & Gray Magazine	522 Norton Rd	43228		2	3	No Exposure Certification
Grandon Manufacturing Company, Inc.	530 Dow Ave	43211		2	3	No Exposure Certification
Haman Midwest	7525 Pingue Dr	43085		2	3	No Exposure Certification
Harper Engraving & Printing Company	2626 Fisher Rd	43204		2	3	No Exposure Certification
Harrop Industries, Inc.	3470 E 5th Ave	43219		2	3	No Exposure Certification
Hikma Pharmaceuticals	1809 Wilson Rd	43228		2	3	No Exposure Certification
Honeywell International, Inc.	2080 Arlingate Ln	43228		2	3	No Exposure Certification
Hopkins Printing	2246 Citygate Dr	43219		2	3	No Exposure Certification
Hyperlogistics Group, Inc.	9301 Intermodal Ct N	43217	6/21/2021	2	3	No Exposure Certification
Impress	3559 E Fulton St	43227		2	3	No Exposure Certification
Interline Brands, Inc.	2375 International St	43228		2	3	No Exposure Certification
Interstate Cold Storage, Inc. - Columbus I	4350 Roberts Rd	43228		2	3	No Exposure Certification
Interstate Cold Storage, Inc. - Columbus II	2400 Setterlin Dr	43228		2	3	No Exposure Certification
ITC Manufacturing, LLC	845 E Markison Ave	43207		2	3	No Exposure Certification
Jacobson Companies	2450 Spiegel Dr, Ste A	43125		2	3	No Exposure Certification
JIT Company, Inc.	2180 Venus Dr	43026		2	3	No Exposure Certification eligible; Owner & OEPA notified
Kenwel Printers Inc	4272 Indianola Ave	43214	2/10/2021	2	3	No Exposure Certification
Knotty Pine Brewing	1765 W 3rd Ave	43212		2	3	No Exposure Certification
La Voz Hispana Newspaper	3552 Sullivant Ave	43204		2	3	No Exposure Certification

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Lang Stone Company, Inc.	707 Short St	43215	4/22/2021	2	3	No Exposure Certification
Lang Stone Company, Inc.	4099 E 5th Ave	43219		2	3	No Exposure Certification
Lee's RV & Boat Storage	4200 Scioto Darby Creek Rd	43026		2	3	No Exposure Certification
Lineage Brewing	2971 N High St	43202		2	3	No Exposure Certification
Mac Tools	4380 Old Roberts Rd	43228		2	3	No Exposure Certification
Machine Arts Company	663 Harmon Plaza	43223		2	3	No Exposure Certification
Magnetic Springs Water Company	1917 Joyce Ave	43219	2/10/2021	2	3	No Exposure Certification
Marcy Enterprises, Inc.	2977 Lamb Ave	43219		2	3	No Exposure Certification
Mars Petcare, Inc.	5303 Fisher Rd	43228		2	3	No Exposure Certification
Mettler-Toledo, Inc.	1150 Dearborn Dr	43085		2	3	No Exposure Certification
Michael Neer (American Isostatic Presses, Inc.)	1205 S Columbus Airport Rd	43207		2	3	No Exposure Certification
Middle West Spirits	1230 Courtland Ave	43201		2	3	No Exposure Certification
Mobile Mini, Inc.	871 Buckeye Park Rd	43207		2	3	No Exposure Certification
Modlich Stoneworks, Inc.	2255 Harper Rd	43204		2	3	No Exposure Certification
Monesi Trucking and Equipment Repair, Inc.	1715 Atlas St	43228		2	3	No Exposure Certification
Morrison Medical Ltd.	3735 Paragon Dr	43228		2	3	No Exposure Certification
NFI Distribution (National Freight Industries, Inc.)	200 McCormick Blvd	43213		2	3	No Exposure Certification
Noise Suppression Technologies, Inc.	4182 Fisher Rd	43228		2	3	No Exposure Certification
Norse Dairy Systems	1740 E 17th Ave	43219		2	3	No Exposure Certification
ODW Logistics, Inc.	1580 Williams Rd	43207		2	3	General Permit
Oh! Chips	894 Scott St	43207		2	3	No Exposure Certification
Pactiv Corporation	2781 Westbelt Dr	43228		2	3	No Exposure Certification
Pengwyn	2550 W 5th Ave	43204		2	3	No Exposure Certification
Petsmart Distribution Center	6499 Adelaide Ct	43125		2	3	No Exposure Certification
Prime Now LLC	4401 Equity Drive	43228		2	3	No Exposure Certification
Public Storage	6401 Busch Blvd	43229		2	3	No Exposure Certification
Public Storage	4990 Sinclair Rd	43229		2	3	No Exposure Certification
Public Storage	6750 Ambleside Dr	43229		2	3	No Exposure Certification
Public Storage	4060 Morse Rd	43230		2	3	No Exposure Certification
Public Storage	2719 Morse Rd	43231		2	3	No Exposure Certification
PXP OHIO	6800 Tussing Rd	43068		2	3	No Exposure Certification
Quad Graphics, Inc.	4051 Fondorf Dr	43228		2	3	No Exposure Certification
Quality Rubber Stamp, Inc.	3314 Refugee Rd	43232		2	3	No Exposure Certification
R&J Bardon Printing & Graphics, Inc.	4676 Larwell Dr	43220	2/25/2021	2	3	No Exposure Certification
Redhawk Global, LLC	2642 Fisher Rd, Ste B	43204		2	3	No Exposure Certification
Regal Springs Company	2140 Eakin Rd	43223	2/25/2021	2	3	No Exposure Certification
Rimrock Corporation	1700 Jetway Blvd	43219	7/21/2021	2	3	No Exposure Certification
Rogue Fitness	545 E 5th Ave	43201		2	3	No Exposure Certification
Scioto Ready Mix	1500 Williams Rd	43207		2	3	General Permit
Screen Printing Showhouse, Inc.	853 N Nelson Rd	43219		2	3	No Exposure Certification
Seekirk, Inc.	2420 Scioto Harper Dr	43204		2	3	No Exposure Certification
ShadeTree Cool Living, LLC	6317 Busch Blvd	43229		2	3	No Exposure Certification
Sideswipe Brewing	2419 Scioto Harper Dr	43204		2	3	No Exposure Certification
Signature Store Services	541 Dana Ave	43223		2	3	No Exposure Certification
Signature Wines	3816 April Ln	43227		2	3	No Exposure Certification
Simply Self Storage	3171 S High St	43207		2	3	No Exposure Certification
Specialty Printing & Processing	4670 Groves Rd	43232		2	3	No Exposure Certification

Company	Site Address	Site Zipcode	Inspection 2021	Category	Priority	Permit Status
Steelmasters of Columbus, Inc.	660 Concrea Rd	43219		2	3	No Exposure Certification
Storage Express Management, LLC	1162 Norton Rd	43228		2	3	No Exposure Certification
Stor-All Self Storage	824 W 5th Ave	43212		2	3	No Exposure Certification
SupplyOne, Inc.	5339 Fisher Rd	43228		2	3	No Exposure Certification
T Marzetti Co	3770 Indianola Ave	43214	2/4/2021	2	3	No Exposure Certification
Tarrier Foods Corporation	2700 International St	43228		2	3	No Exposure Certification
Tecsis, LP	771-F Dearborn Park Ln	43085		2	3	No Exposure Certification
Terminal Warehouse, Inc.	1658 Williams Rd	43207		2	3	General Permit
The Glass Block Warehouse	750 Kaderly Dr	43228		2	3	No Exposure Certification
The Kingswood Company	3065 Switzer Ave	43219		2	3	No Exposure Certification
The N. Wasserstrom and Sons/Amtekco Industries, Inc.	2300 Lockbourne Rd	43207		2	3	General Permit
The Seventh Son Brewing Company	1101 N 4th St	43201		2	3	No Exposure Certification
The Stone & Granite Company	1300 Refugee Ln	43207		2	3	No Exposure Certification
TKS Industrial Company	1939 Refugee Rd	43207		2	3	No Exposure Certification
TRAC (Tri-Modal Service, Inc.)	2001 Walcutt Rd	43228		2	3	No Exposure Certification
Tranz Lights, Inc.	3492 E Fulton St	43227		2	3	No Exposure Certification
Traxler Custom Printing	3029 Silver Drive	43224		2	3	No Exposure Certification
Tritex Corporation	1390 Holly Ave	43212		2	3	No Exposure Certification
U-Haul Moving & Storage	1211 Parsons Ave	43206		2	3	No Exposure Certification
U-Haul of Worthington	7510 Worthington Galena Road	43085		2	3	No Exposure Certification
U-Haul of Worthington	7472 Reliance St	43085		2	3	No Exposure Certification
Uncle Bob's Self Storage #724	6460 E Broad St	43213	1/26/2021	2	3	No Exposure Certification
Vectra, Inc.	3950 Business Park Dr	43204		2	3	No Exposure Certification
VSPONE	2605 Rohr Road	43137		2	3	No Exposure Certification
Walker Magnetics	2195 Wright Brothers Ave.	43217		2	3	No Exposure Certification
Watershed Distillery, LLC	1145 Chesapeake Ave, Ste D	43212		2	3	No Exposure Certification
Watkins Printing Company	1401 E 17th Ave	43211		2	3	No Exposure Certification
Weldon A Div of Akron Brass Company	3656 Paragon Dr	43228		2	3	No Exposure Certification
Weldon A Division of Akron Brass Company	1736 Westbelt Dr	43228		2	3	No Exposure Certification
West Side Transport	1929 Lone Eagle St	43228		2	3	No Exposure Certification
Westbelt Storage	4445 Old Roberts Rd	43228		2	3	No Exposure Certification
Whirlpool Corporation	6241 Shook Rd	43137		2	3	No Exposure Certification
Wilsonart International, Inc.	2500 International St	43228		2	3	No Exposure Certification
Worldwide Flight Services, Inc.	4760 E 5th Ave	43219		2	3	No Exposure Certification
Worthington Machine Technology (Worthington Industries, Inc.)	1055 Dearborn Dr	43085		2	3	No Exposure Certification
Wyandotte Winery, LLC	4640 Wyandotte Dr	43230		2	3	No Exposure Certification

Holistic Effects of Green Infrastructure Implementation in the Clintonville Neighborhood of Columbus Ohio: 2021 Interim Report

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Interim Report for 2016-2021

Volume I: Hydrology and Water Quality

Blueprint Columbus Monitoring

Written for the City of Columbus, Ohio

February 28, 2022

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Executive Summary

Left unchecked, increasing imperviousness in a watershed causes flooding and impacts receiving waters through erosion, loss of habitat, and increases in pollutant load. Before the 1970s, urban developments were drained with storm sewers but were often built with few stormwater controls. Aging infrastructure in these neighborhoods, which includes the Clintonville neighborhood in Columbus, Ohio, are one cause of sanitary sewer overflows (SSOs).

The Blueprint Columbus project is an innovative effort by the City of Columbus to eliminate SSOs through four pillars: (1) installation of green infrastructure (GI or GSI) to reduce stormwater runoff, (2) downspout disconnection, (3) sump pump installation, and (4) sanitary sewer lateral lining to prevent infiltration and inflow. The initial effort in this program was centered in Clintonville but has expanded to other neighborhoods of the city.

This report details holistic hydrologic and water quality monitoring activities undertaken by Ohio State University between 2016 and 2021 to quantify and compare conditions prior to and after the installation of green infrastructure, and subsequently after all four pillars of Blueprint Columbus were completed in this neighborhood. This volume of the annual report to the City of Columbus represents interim findings for research related to the hydrologic, water quality, and public health impacts of stormwater. This research effort will not be fully completed until 2023 at which point a project final report will be submitted. The four pillars of Blueprint were online for a sufficient time in Indian Springs to evaluate their impacts. However, additional monitoring will be needed in the remaining treatment sewersheds to evaluate the impacts of the project beyond the preliminary findings presented herein; this will be undertaken in the final report to be submitted in 2023.

Six sewersheds in Clintonville were identified for long-term stormwater monitoring. Since monitoring began in 2016, one sewershed has served as a control (Beechwold) for the experiment (i.e., it did not receive any of the four pillars of Blueprint), while three sewersheds (Cooke-Glenmont, Indian Springs, and Blenheim) received varying intensities of green infrastructure retrofits, sump pump installations, downspout disconnections, and sanitary sewer lateral lining. In all cases, green infrastructure retrofits were completed first followed by the installation of the remaining Blueprint pillars. Monitoring began at two additional sewersheds where GI retrofits are not planned (Starrett and Whetstone) in 2019 to provide additional controls for the study. Imperviousness within the three treatment sewersheds ranged from a minimum of 30.9% (Cooke-Glenmont) to a maximum of 44.6% (Blenheim), while the control sewersheds were 34.7-38.2% impervious. The Indian Springs sewershed was 75% residential, 8% commercial, and 17% institutional, differing substantially from the other five sewersheds which were, at minimum, 82% residential.

Rainfall was measured in or adjacent to each sewershed. Runoff was measured in a single storm sewer outfall draining the entire sewershed. Flow-proportional, composite water quality samples were obtained during wet weather events. Stormwater samples were analyzed for nutrient, total suspended solids (TSS), *E. coli*, and heavy metal concentrations and then utilized in conjunction with measured runoff volume to determine pollutant loading.

Across the six sewersheds, hydrologic data were collected for between 255 and 336 storms over the 62-month monitoring period between 2016-2021. Before the Blueprint Columbus project commenced (i.e., the pre-retrofit period), the four originally monitored sewersheds transmitted between one-fifth and one-third of rainfall as runoff (runoff coefficients between 0.18 and 0.33). Runoff coefficients increased during the post-GI phase in the Indian Springs and

Cooke-Glenmont sewersheds as well as the control, Beechwold, likely due to precipitation patterns during an extremely wet 2018 (the wettest year on record in Columbus, OH) and early 2019. These runoff coefficients were modestly lower than other residential catchments with similar characteristics in the literature. The runoff coefficients in Indian Springs and Cooke-Glenmont increased in the post-AI^2 phase (i.e., the phase in which all infrastructure improvements associated with Blueprint Columbus were completed in a sewershed) due to additional stormwater volumes conveyed to the sewershed outfall following the completion of the remaining Blueprint pillars in the sewershed.

Runoff thresholds, or the rainfall depth required to observe incipient runoff at the sewershed outlet, increased by 0.01 inch across all treatment sewersheds in the post-GI phase only to revert back to pre-GI levels following the completion of additional infrastructure improvements. Peak flow rate reductions (10-42%) were observed across all treatment sewersheds for both the post-GI and post-AI^2 project periods; however, reductions were not statistically significant. Runoff depths during the post-AI^2 phase significantly increased by 10-60% in the Indian Springs and Cooke- Glenmont sewersheds compared to the control, Beechwold. Progress made toward completion of the remaining Blueprint pillars was evident in additional runoff conveyed to the outfalls of Cooke-Glenmont and Indian Springs. Results from Blenheim are influenced by a relatively small number of measured runoff events in the post-GI and post-AI^2 phases, wherein the Blenheim wetland received a portion of the flows from the Blenheim sewershed. Additional data collected in 2022 are expected to bolster this analysis and refine these preliminary findings.

Since the previous report, water quality samples have been collected in the monitored sewersheds to capture stormwater pollutant concentrations and loads in the post-AI^2 phase. However, the limited sample size of data collected from Blenheim and Cooke-Glenmont in the

post-AI^2 phase is not sufficient to draw statistically sound conclusions regarding water quality trends following the completion of Blueprint Columbus pillars. Summary statistics are presented in the Results section and data collected to-date are presented graphically in Appendix D; however, discussion of these results has been excluded from the main text of this report. Further, we have refrained from formulating conclusions about changes in water quality during the post-AI^2 phase for these sewersheds until additional data can be collected in 2022. Thus, at the time of this report, all trends observed during the post-AI^2 phase in Blenheim and Cooke-Glenmont are considered preliminary observations. It is expected that data collected during the 2022 monitoring campaign will bolster analysis and strengthen conclusions, which will be presented in the 2023 final report. Significant reductions in the post-AI^2 phase for concentrations of orthophosphate (OP), particulate bound phosphorus (PBP), total nitrogen (TN), total phosphorus (TP), and TSS and loads of total ammoniacal nitrogen (TAN), lead (Pb), and copper (Cu) were observed in Indian Springs. Clear annual load reductions were observed for almost all water quality parameters at Indian Springs. Overall results demonstrate the pollutant removal effectiveness of the GSI installed in these areas compared to the control sewershed.

Table 1: Summary of statistically significant changes in hydrologic and water quality parameters in the treatment sewersheds between project phases.

	Parameter	Blenheim		Cooke-Glenmont		Indian Springs	
		Pre-GI → Post-GI	Pre-GI → Post-AI[2]	Pre-GI[+] → Post-GI	Pre-GI → Post-AI[2]	Pre-GI → Post-GI	Pre-GI → Post-AI[2]
Hydrology	Runoff Depth	-	-	-	60% ↑	-	10% ↑
	Peak Flow	-	-	-	-	-	-
Water Quality	Nitrogen	**Load:** NO_3: 13% ↓	-	**Conc:** TAN: 79% ↓	-	-	**Load:** TAN: 29% ↓
	Phosphorus	-	-	**Conc:** OP: 34% ↓ PBP: 20% ↓ TP: 28% ↓	-	-	**Conc:** OP: 41% ↓ PBP: 48% ↓ TP: 49% ↓
	TSS	-	-	**Load:** TSS: 25% ↑	-	**Conc:** TSS: 66% ↓	-
	Heavy Metals	-	-	**Conc:** Cr: 32% ↑ Pb: 26% ↓ Zn: 34% ↓ **Load:** Cr: 175% ↑ Ni: 100% ↑ Pb: 32% ↑	-	-	**Load:** Cu: 27% ↓ Pb: 43% ↓

[+]Increases in storm event loads and mean concentrations in the Cooke-Glenmont sewershed during the post-GI phase compared to the pre-GI phase are considered preliminary due to the very small number of storms sampled from the sewershed in the pre-GSI phase. Statistical testing to investigate differences between pre-GSI and GI

construction phases will be performed prior to the 2023 final report to determine if both datasets can be combined to bolster this analysis.

The mean *E. coli* concentrations for samples collected from all 12 sites in 2021 was $8.12x10^4$ CFU/mL, which exceeded US EPA criteria for recreational waters (126 CFU/mL). Further, *E. coli* concentrations varied greatly by sampling location and appeared to be lower in the winter months compared to spring-fall. In addition, green infrastructure sites have lower overall average *E. coli* concentrations compared to control sites. MST results identified varying concentrations of fecal bacteria from all sources at each site. The largest sources of fecal contamination were canine followed by human sources, with average concentrations of 3.29 log GC/100 mL and 3.11 log GC/100 mL, respectively. Results from 2021 also indicated that all sites have high antibiotic resistance gene concentrations. Sulfonamide, present at an average concentration of 5.29 log GC/100mL, was more prevalent than Tetracycline (average concentration of 4.16 log GC/100mL). It is expected that future carbapenem resistance (bla_{KPC}) contamination will be similarly high at these sites.

Introduction

Urbanization and suburbanization result in the construction of impervious surfaces, mass grading, soil compaction, and removal of vegetative cover. These impacts reduce the combined effects of canopy interception, evapotranspiration, and infiltration in a watershed, resulting in an imbalance in the natural hydrologic processes (Shuster et al. 2005). The consequence is increased stormwater runoff volumes traveling faster over hardened impervious surfaces, leading to instability in receiving streams, bed and bank erosion, loss of in-stream habitat, and imbalances in sediment transport (Walsh et al. 2005; Violin et al. 2011; Tillinghast et al. 2011; ten Veldhuis and Schleiss 2017). Furthermore, these increased volumes of stormwater runoff often carry higher pollutant loads from urbanized areas than other land uses (Line and White 2007; Line and White 2015; Chen et al. 2016). The severity of impacts to receiving streams varies and is dependent on the percentage of imperviousness in the watershed, topography, soils, vegetation, and other local factors (Bell et al. 2016). Ten percent imperviousness in a watershed is generally accepted as the threshold for negative consequences to streams (Schueler et al. 2009).

To ameliorate some of these impacts, engineers design stormwater control measures (SCMs) to detain, retain, infiltrate, and evapotranspire stormwater, reducing the rate and volume of flow discharged to receiving streams (Moore et al. 2017). Novel treatment technologies such as bioretention and permeable pavement often focus on reducing runoff volume. These SCMs are central to Low Impact Development (LID) strategies which aim to more closely mimic pre-development hydrology (Dietz 2007). Recent studies in Ohio have shown that bioretention and permeable pavement can substantially reduce runoff volumes even when constructed in clay soils (Winston et al. 2016b; Winston et al. 2018; Tirpak et al. 2021). Additionally, these SCMs often

employ sedimentation, filtration, adsorption, and biological processes to sequester or remove pollutants from stormwater (Davis et al. 2009; Winston et al. 2016a). Many studies of single SCMs have shown that if designed, installed, and maintained adequately, they function to reduce pollutant load to receiving streams, helping to meet total maximum daily load (TMDL) goals and reduce stream impairment.

A growing body of literature supports the use of LID with distributed SCMs in greenfield developments (Dietz and Clausen 2008; Line et al. 2012; Wilson et al. 2014). Implementation of LID in a residential development in Connecticut resulted in runoff volumes and peak flow rates 2.5 and 3.0 times lower than an adjacent traditionally drained residential development. The runoff coefficient (ratio of rainfall to runoff) for a commercial LID site was 0.02, while an adjacent commercial development drained by a dry pond had a runoff coefficient of 0.49 (Wilson et al. 2014). Total nitrogen (TN), total phosphorus (TP), and total suspended solids (TSS) pollutant load from a LID development was 23-92% less than an adjacent conventionally drained residential development (Line and White 2015). However, installing green infrastructure (GI or GSI) as part of new developments is substantially simpler, cheaper, and more effective than retrofitting GI into existing developments, since open space is limited, and existing utilities abound.

A study by Shuster and Rhea (2013) conducted in Cincinnati, Ohio, showed that voluntary retrofitting of rain barrels and rain gardens on residential parcels imparted a small but significant decrease in catchment-scale runoff volume. Modeling studies have shown that minor to vast differences in runoff reduction (10-70%) may be achieved when retrofitting SCMs depending on the type and scale of SCM implementation (Wright et al. 2016). Very few studies have evaluated the effects of a retrofitted network of LID SCMs in the municipal right-of-way. Page et al.

(2015a, 2015b) conducted a study in Wilmington, NC to evaluate a control street and a nearby retrofitted street with bioretention, permeable pavement, and high flow rate tree filters. When compared to the control catchment, runoff depth decreased by an average of 52% and pollutant load of nutrients, sediment, and metals decreased by 50-90%.

While the effects of urbanization on a watershed are well cataloged, there are relatively few studies that have quantified how targeted retrofitting of GI affects sewershed-scale hydrology and water quality. The goal of this research is to quantify the holistic impacts of green infrastructure implementation in the Clintonville neighborhood of Columbus, Ohio as part of the Blueprint Columbus project. This volume documents findings related to stormwater hydrology, water quality, and public health implications following the implementation of SCMs in the City of Columbus' rights-of-way.

Project Overview

Much of the City of Columbus has separated sewer systems. Sanitary sewer overflows (SSOs) remain a concern due to infiltration and inflow from leaky sewer pipes and porous utility trenches, causing capacity exceedance during rain events. In 2016, 127 SSO discharge events occurred across the remaining 34 SSO outfalls in Columbus (City of Columbus 2017a). These represent a significant public health risk (Liao et al. 2016) and the City of Columbus is under a USEPA consent decree to eliminate SSOs and combined sewer overflows (CSOs) within its boundaries. In response, the City of Columbus constructed the Olentangy-Scioto interceptor sewer to contain the CSOs and has evaluated the use of traditional grey measures (sewer lining and up-sizing pipes) to prevent SSOs. A cost-benefit analysis showed higher costs for traditional grey ($2.5 billion) than green infrastructure measures ($1.8 billion) to control SSOs, but with potential co-benefits (e.g., urban habitat, stormwater control, air quality, carbon sequestration,

housing values, and beautification) provided by the green infrastructure (Bolund and Hunhammar 1999; Arcadis 2015).

Given this potential net benefit with lower cost, the City of Columbus developed the Blueprint Columbus project as its long-term control plan for SSOs. Blueprint Columbus is a multi-pronged approach that includes the implementation of GI SCMs (i.e., bioretention, permeable pavement, and a constructed wetland), lining of sewer laterals, disconnection of roof downspouts to SCMs, and a voluntary sump pump program (Figure 1). It represents an unprecedented effort by the City of Columbus to retrofit a network of green infrastructure and improve grey infrastructure across the city to address numerous goals. The results of this report provide information to determine preliminary impacts of Blueprint Columbus on runoff quantity and quality (City of Columbus 2017b). This will inform future decisions about SSO control strategies, providing the city with data to produce a more accurate and comprehensive cost-benefit analysis. It will also guide the expansion of Blueprint Columbus to fulfill the city's USEPA consent decree to reduce SSOs in neighborhoods beyond Clintonville.

Figure 1. Four pillars of the Blueprint Columbus project.

Methods

Stormwater Runoff Hydrology and Water Quality

Description of Monitored Sewersheds

Four sewersheds in the Clintonville neighborhood of Columbus, Ohio have been monitored since 2016 to characterize runoff hydrology and water quality. There were very few preexisting SCMs to treat and dissipate stormwater within this neighborhood prior to the onset of the Blueprint Columbus project. The City of Columbus has installed GI, disconnected downspouts, installed sump pumps, and lined sewer laterals in an effort to prevent sanitary sewer overflows (SSOs) in the Blenheim (also referred to as Blenheim-Glencoe; BG), Cooke-Glenmont (CG), and Indian Springs (IS) portions of the neighborhood (Figure 1, Figure 2, and Figure 26). The majority of the Beechwold area of the neighborhood was not retrofitted with GI (i.e., only 2.2%

of the watershed is treated by GI) and it served as the primary control in the experiment. In 2019, monitoring commenced in two additional control sewersheds, Whetstone and Starrett, selected based on their proximity to the original four sewersheds. Like Beechwold, both the Whetstone and Starrett sewersheds are not scheduled for retrofits associated with the Blueprint pillars. In addition, monitoring was conducted at a constructed wetland (Blenheim wetland), which was completed in 2019; low flows from a portion of the Blenheim sewershed are shunted to this wetland for treatment using an in-sewer weir.

Figure 2. Boundaries of the six sewersheds monitored in this study. Distribution of bioretention cells (BRCs), monitoring locations, and land use within each sewershed also shown. The remaining area within each sewershed not identified as commercial or institutional is residential.

Except for commercial and institutional land use, Clintonville is a primarily residential neighborhood developed between 1910 and 1950. Six glacial ravines run east to west through Clintonville and eventually convey stormwater to the Olentangy River. Clintonville is drained with a system of separated storm sewers which generally outfall to the ravines. The Cooke-Glenmont, Indian Springs, and Blenheim sewersheds drain to Overbrook ravine while the Beechwold sewershed drains to the Beechwold ravine. Starrett and Whetstone both discharge directly to the Olentangy River. The soils in the sewersheds are primarily mapped as silt loams in the Cardington and Bennington soil series. While the development patterns differ to some extent (Figure 27 to Figure 32), the neighborhood consists primarily of small lot, single family residential (Table 2).

Table 2. Land use in the six monitored sewersheds in Clintonville.

Sewershed	Area (ac)	Land Use (ac)			Land Use (%)		
		Residential	Commercial	Institutional	Residential	Commercial	Institutional
Beechwold	275.5	263.6	10.0	2.0	95.7	3.6	0.7
Blenheim	151.4	134.2	7.4	9.9	88.6	4.9	6.5
Cooke-Glenmont	28.5	28.5	0	0	100	0	0
Indian Springs	118	89.3	9.0	20.5	75.0	7.6	17.4
Starrett	55	55	0	0	100	0	0
Whetstone	56	46	0	10	82.1	0	17.9

The three treatment sewersheds have had differing levels of GI implementation; qualitatively, Cooke-Glenmont has the lowest number of GI practices, followed Indian Springs, where a moderate number of practices were installed, and Blenheim, where the greatest number of GI practices were implemented. This facilitates comparisons of how GI density affects runoff quantity and quality at the sewershed scale. Because establishment of the Whetstone and Starrett sewershed monitoring locations occurred after GI implementation in the treatment sewersheds commenced, they were excluded from all pre- versus post-retrofit performance analyses (i.e., only the Beechwold sewershed was used as a control). Instead, annual assessments of runoff

hydrology will rely on all three control sewersheds. The final report submitted in 2023 may include annual water quality analyses comparing the full suite of treatment and control sewersheds.

Sewersheds were selected for monitoring based on the following criteria: (1) land use within the sewershed was representative of land use in the greater Clintonville area, (2) ease of access to the sewer outfall and safety of sampling staff, (3) ease of installation of monitoring equipment in and near the outfall, (4) reasonable sun exposure for solar panels to charge batteries to power the automated samplers, (5) expected hydrologic data quality based on downstream impediments to flow, and (6) willingness of adjacent landowner(s) to host monitoring equipment on their property.

The Cooke-Glenmont and Starrett sewersheds consisted entirely of residential land use, while Beechwold, Blenheim, and Whetstone were comprised of 96%, 89%, and 82% residential land use, respectively (Figure 2 and Table 2). Institutional land use (e.g., schools, libraries, and community centers) made up <1%, 6.5% and 17.9% of Beechwold, Blenheim, and Whetstone, respectively. The Indian Springs sewershed was comprised of 75% residential, 8% commercial, and 17% institutional land uses. Beechwold (276 acres) had nearly double the drainage area of the next largest sewershed (Blenheim), while the Cooke-Glenmont sewershed covered just 29 acres. The sewer outfalls for Beechwold, Blenheim, Indian Springs, Cooke-Glenmont, Starrett, and Whetstone were 54-inch diameter, 3 by 3 ft square, 42-inch diameter, and 18-inch diameter, 42- inch diameter, and 24-inch diameter concrete outfalls, respectively.

Impervious surfaces reduce infiltration and evapotranspiration in a watershed and are key factors in determining quantity (Shuster et al. 2005) and quality (Carle et al. 2005) of stormwater runoff and the subsequent health of receiving water bodies (Schiff and Benoit 2007; Schueler et

al. 2009). Imperviousness within the six monitored sewersheds ranged from a minimum of 30.9% (Cooke-Glenmont; see Figure 29 in Appendix B) to a maximum of 44.6% (Blenheim; see Figure 30 in Appendix B) (Table 3). The neighborhoods in Clintonville were comprised of approximately 40% impervious cover, similar to the imperviousness of the Beechwold (38.2%), Starrett (34.7%), and Whetstone (35.3%) sewersheds (Figure 27) (City of Columbus 2009). Roofs, roads, and driveways represented most of the impervious cover in all sewersheds. In each of the sewersheds, rooftops comprised approximately 40% of the total impervious area (TIA), while roads and driveways represented 20-30% and 15-25% of TIA, respectively. Sidewalks and parking lots represented <10% of the TIA in each sewershed, except for parking lots in Indian Springs and Whetstone (Figure 28), which were 17.5% and 22% of their TIA, respectively. Because the downspouts and driveways in Clintonville often directly discharge to the street, most of the TIA was directly connected to the sewer system. Pervious areas in the sewersheds were primarily residential yards and sporting fields; very few undisturbed natural or forested areas existed outside the ravines (Figure 27, Figure 28, Figure 29, Figure 30).

Table 3. Impervious surface types within each monitored sewershed.

Sewershed	Units	Area	Imperviousness	Roof Area	Road Area	Sidewalks	Driveways	Parking Lots	Pervious
Beechwold	acres	275.5	105.3	41.8	30.4	5.8	22.9	4.5	170.2
	% of total area	-	38.2	15.2	11.0	2.1	8.3	1.6	61.8
Blenheim	acres	151.4	67.4	25.3	15.0	7.2	15.0	4.8	84.0
	% of total area	-	44.5	16.7	9.9	4.8	9.9	3.2	55.5
Cooke-Glenmont	acres	28.5	8.8	3.6	2.6	0.3	2.3	0.0	19.7
	% of total area	-	30.9	12.5	9.3	1.2	8.0	0.0	69.1
Indian Springs	acres	118	47.6	18.5	10.1	3.1	7.5	8.3	70.4
	% of total area	-	40.3	15.7	8.6	2.7	6.4	7.0	59.7
Starrett	acres	55	19.1	7.2	6.8	0.7	4.4	0.0	35.9
	% of total area	-	34.7	13.1	12.4	1.3	8	0.0	65.3
Whetstone	acres	46	16.2	5.0	1.1	0.9	5.6	3.6	29.8
	% of total area	-	35.3	10.9	2.4	2.0	12.2	7.8	64.7

Project Timelines

Each sewershed was monitored during a pre-retrofit phase to establish baseline hydrologic response and runoff quality. Blueprint Columbus was then implemented in two phases: (1) the implementation of GI (referred to as post-retrofit herein), sometimes followed by a respite in construction, and (2) downspout redirections, sanitary sewer lateral lining, and sump pump installations (referred to as post-all infrastructure implemented or post AI^2). A consistent monitoring scheme was employed before, during, and after all phases of construction.

The number of bioretention cells (BRCs), surface area of permeable pavement (PP) downspout disconnections, sewer laterals lined, and sump pumps implemented in the monitored sewersheds are presented in Table 4. Between 22% and 44% of the treatment sewershed areas were treated by GI. Though fewer in number, the bioretention cells in Cooke-Glenmont had larger surface areas than those in Blenheim or Indian Springs. By the end of 2020, the four pillars of Blueprint were completed in Indian Springs. This same threshold was reached in Cooke-Glenmont and Blenheim late in 2021, resulting in small post-AI^2 data sets for this phase in this annual report. Further data collection in support of the final report (due in 2023) will support more robust statistical conclusions.

Table 4. Monitored Blueprint sewersheds with the number of implemented practices for each pillar of the Blueprint project as of December 2021.

SEWERSHED*	DESIGN STYLE	NO. OF BRCS	PP AREA (AC)	AREA TREATED BY GI (%)	HOMES WITH DISCONN. DOWNSPOUTS	SEWER LATERALS LINED	SUMP PUMPS INSTALLED
BEECHWOLD (CONTROL)	Bump-Outs	10	0.59	2	0	0	0
BLENHEIM	In-Lawn	163	-	44	542	680	In progress+
COOKE-GLENMONT	Regional, In-Lawn	3	-	31	205	264	0
INDIAN SPRINGS	Bump-Out, In-Lawn	32	1.48	22	349	455	234

*The Whetstone and Starrett control sewersheds did not receive any retrofits associated with the Blueprint Columbus project.

+Sump pump installation is ongoing in the Blenheim sewershed; however, the number of sump pumps installed were not available at the time of this report. This will be included in the final report submitted in 2023.

Timelines illustrating the progress of the Blueprint Columbus project in the treatment sewersheds are shown in Figure 3. Phases of the Blueprint Columbus project were used to assess the effects of Blueprint Columbus on sewershed hydrology and water quality. Generally, data were categorized into the following periods: (1) pre-retrofit, (2) GI construction, (3) post-GI (i.e., the period following the completion of GI retrofits in a given sewershed), 4) additional infrastructure improvement (AI^2) construction (i.e., construction of the other pillars of Blueprint Columbus) and (5) post-AI^2 (i.e., the period following the completion of all Blueprint pillars). Data collected during phases 2 and 4 (i.e., construction phases) were not utilized in the analysis herein. Further analysis of these data is anticipated to be presented in the 2023 final report.

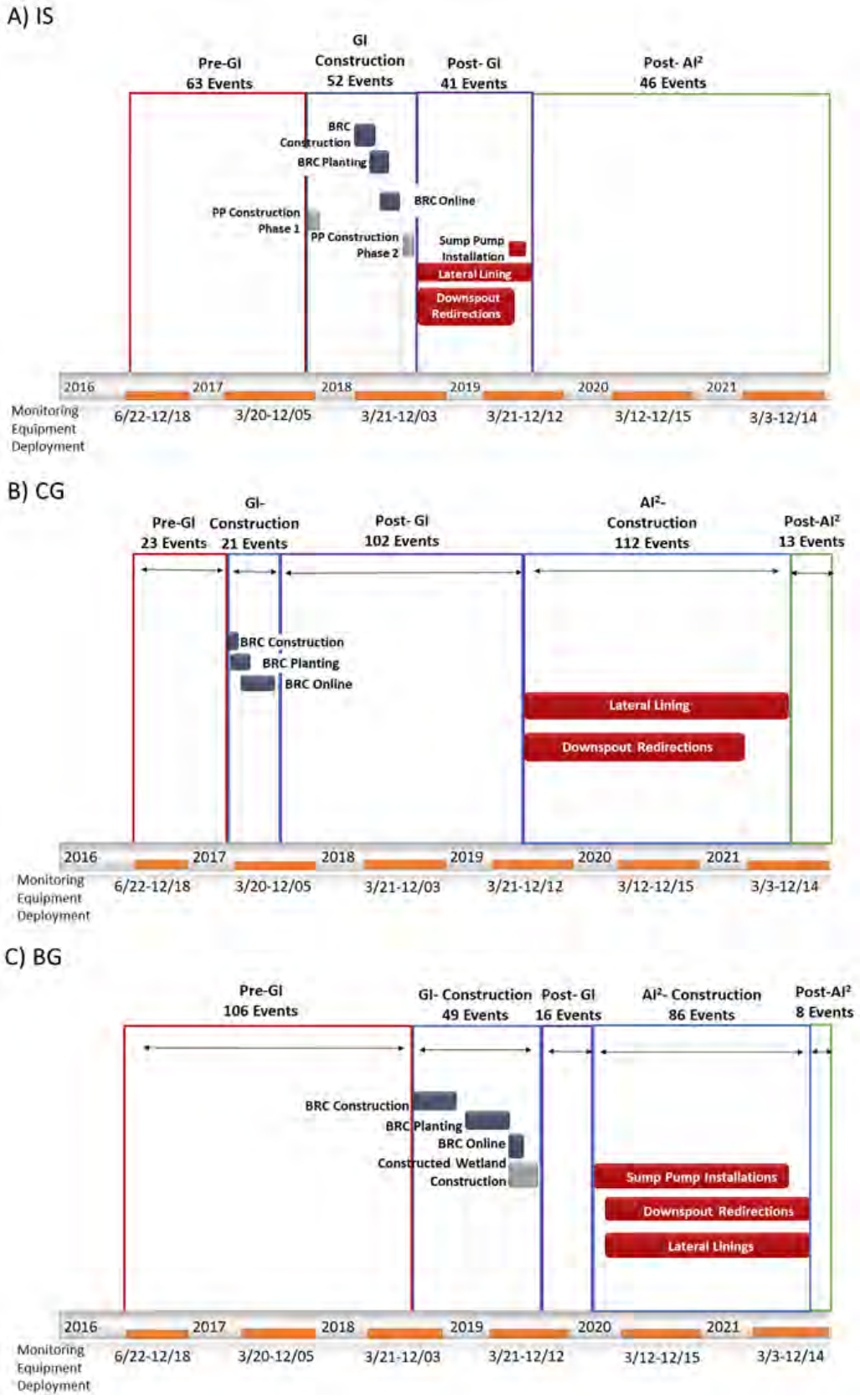


Figure 3. Project timelines of treatment sewersheds during the monitoring period.

The GI construction phase encompassed the three phases of GI retrofits: construction, planting, and establishment. The GI implemented in Indian Springs and Blenheim also included other technologies which complemented the BRCs. In Indian Springs, permeable pavements were constructed on four streets or alleys in the sewershed. In Blenheim, a constructed wetland (hereafter referred to as the Blenheim wetland) was installed and fed from a weir diversion structure in the sewer upstream of the existing sewershed outfall. During the establishment phase, runoff was routed away from the BRCs to provide a period for plants to establish (Figure 4). Breaks between the construction of GI and completion of remaining Blueprint pillars caused the duration of the post-GI period to vary greatly (8-40 months) between the treatment sewersheds. The additional Blueprint pillars were often implemented over several months to 1.5 years, without constant construction occurring in the sewersheds; these construction periods (AI^2 construction) were also excluded in the project period comparisons presented herein. All aspects of infrastructure improvements related to Blueprint Columbus were completed in all treatment sewersheds as of November 2021 (Figure 3).

Figure 4. Bioretention cell with sandbag blocking the inlet and the same cell after sandbag was removed and runoff from street was routed into the practice. Blocking of the inlet structures prevented high-intensity runoff events from entering the practice immediately following planting to allow juvenile plants to become established in the bioretention media. An additional erosion control practice downstream of the inlet weir was added after the sandbag was removed.

As of the time of report preparation, sufficient data have been collected to make statistical inferences about changes in runoff quantity and quality following the implementation of GI in the Blenheim, Cooke-Glenmont, and Indian Springs sewersheds using Beechwold as a control (i.e., comparing post-GI to pre-GI). However, analyses following the completion of Blueprint activities (post-AI^2) were limited to the Indian Springs sewershed. Continued data collection in 2022 will support expanded post-AI^2 analyses in each of the treatment sewersheds in the final report submitted in 2023.

Data Collection

A single rain gage cluster, consisting of a tipping bucket and a manual rain gage attached to a 6-ft tall wooden post, was installed in five of the six monitored sewersheds (a suitable location for a rain gauge in the Starrett sewershed could not be identified; Figure 5). Rainfall data were collected using 0.01-inch resolution Davis Rain Collector tipping bucket rain gages (Davis Instruments, Hayward, California) and stored on Hobo Pendant data loggers (Onset Computer Corporation, Bourne, Massachusetts). Rainfall data were stored on a 1-minute interval and downloaded to a field laptop every three weeks. Readings from manual rain gages (Productive Alternatives, Fergus Falls, Minnesota) were observed after each rainfall event to re-calibrate sampler pacing. Rain gage clusters were installed in locations free from overhead obstructions.

Figure 5. Rain gage cluster (left), sample intake (clear plastic) and area velocity meter (black) in the Cooke-Glenmont outfall (center), and automated sampler at Beechwold (right).

The six sewersheds and the Blenheim wetland were instrumented to quantify hydrology during baseflow and stormflow and obtain representative samples of stormwater quality. Instrumentation was installed at outfalls draining each sewershed such that the total runoff discharged from each sewershed could be quantified (Figure 5). An ISCO 750 area velocity meter (AVM; Teledyne Isco, Lincoln, Nebraska) was mounted to the bottom of the Beechwold, Starrett, Whetstone, Blenheim wetland (at both the inlet and outlet), and Cooke-Glenmont culverts and measured velocity and depth of flow. These sensors measure velocity by emitting a continuous ultrasonic wave that bounces off particles and bubbles in the flow. The frequency shift in the returned signal (i.e., the Doppler Effect) is used to determine the average flow velocity. An internal pressure transducer in the AVM measures flow depth. These measurements, along with the known cross-section of the outfall, were used by ISCO 6712 samplers to determine flow rate on 1-minute intervals. At Blenheim and Indian Springs, AVMs transmitted measurements to ISCO 2150 flow modules. These data were stored in ISCO 2100 sample interface modules and were used to trigger sample aliquots obtained by ISCO 3700 series samplers. These samplers were replaced by ISCO 6712 units during the 2021 monitoring campaign. Hydrologic data were downloaded every three weeks to a field laptop.

Runoff volume-proportional, composite stormflow samples were collected by either ISCO 6712 or 3700 series samplers (Figure 5). Flow rates were integrated with time to determine

stormwater volume and trigger sample aliquots. Aliquots were paced such that up to a 2-inch rainfall event could be effectively sampled; the runoff volume needed to trigger each aliquot was varied frequently based upon measured runoff volume and associated rainfall depth at a monitoring site. While flow from the Cooke-Glenmont, Starrett, and Whetstone outfalls was ephemeral, the Beechwold, Blenheim, and Indian Springs outfalls had baseflow during inter-event periods. For outfalls with baseflow, an enable trigger based on flow depth was set to ensure the sampler did not consider baseflow volume in the volumetric trigger for aliquot collection. Within each sampler, aliquots were composited in a single 18.9L bottle and thus characterized pollutant event mean concentrations (EMC).

All composite samples were composed of a minimum of five and a maximum of 50, 350 mL aliquots describing greater than 80% of the pollutograph (U.S. EPA 2002). All samples were collected within 24 hours of the cessation of rainfall. Sample strainers (Figure 5) were used to remove gross solids from the samples and were located where flow was well-mixed.

Data were collected during the 62-month period from June 2016 to December 2021. Rainfall, hydrologic, and water quality data were not collected from December 19, 2016 through March 19, 2017, December 6, 2017 through March 20, 2018, December 4, 2018 through March 20, 2019, December 13, 2019 through March 12, 2020, and after December 14, 2021 to prevent damage to monitoring equipment and/or collection of unreliable data due to winter weather conditions.

Simulated Storm Methods

Simulated storm tests were conducted to quantify bioretention cell performance under semi-controlled conditions. Thus far, tests have focused on hydrologic performance of the bioretention cells, investigating parameters such as runoff volume reduction and alteration of hydrograph

timing. Tests were conducted between 2018 and 2021 on bioretention cells in three sewersheds in Clintonville (i.e., Cooke-Glenmont, Indian Springs, and Schreyer-Springs). Simulated storm testing procedures varied depending on the surface area of the bioretention cell (Table 5). Bioretention cells with surface areas greater than 300 ft^2 required the use of a fire hydrant, while those less than 300 ft^2 were tested using a 400-gallon tank. An exception to this occurred in the Cooke-Glenmont sewershed, where the BRCs had larger subsurface storage that extended underneath the adjacent sidewalk, thus requiring the use of fire hydrant tests. Between 2018-2021, a total of 48 tests at 11 BRCs were performed. Due to unexpected infiltration to the sanitary or storm sewer and issues with equipment used to measure flow, analysis was performed on a subset of 44 simulated storm events. Beginning in 2021, efforts focused on replicating testing for the previously tested bioretention cells as well as testing for water quality performance. Similar testing is expected to be completed in 2022 on the same BRCs tested in 2021 along with an additional three BRCs located in the Blenheim sewershed (Table 5).

Table 5. Description of bioretention cells characterized using simulated storm testing.

Clintonville Project Area	Bioretention Cell Location	Bioretention Cell Configuration	Surface Area (ft^2)	Test Method	Candidate for Water Quality Testing	No. of Tests Completed
Blenheim	220 Blenheim Road, midway between Foster Street and Sharon Ave.	In-Lawn	96	Tank	Yes	0
Blenheim	146 Glencoe Rd., midway between Foster and E. Torrence Rd.	In-Lawn	144	Tank	Yes	0
Blenheim	SE corner of Acton and Granden	In-Lawn	184	Tank	Yes	0
Cooke-Glenmont	Glenmont Pl.	In-Lawn	303	Tank	Yes	1
Cooke-Glenmont	192 Glenmont Ave.	Bump Out	195	Hydrant	No	4
Cooke-Glenmont	107 Glenmont Ave., between N. High St. and Foster St.	Bump Out	393	Hydrant	No	4
Cooke-Glenmont	92 Glenmont Ave.	Bump Out	194	Hydrant	No	4
Schreyer-Springs	4290 Fairoaks Dr.	In-Lawn	263	Tank	Yes	4
Schreyer-Springs	4287 Colerain Dr.	In-Lawn	262	Tank	Yes	6
Schreyer-Springs	4286 Colerain Dr. Dr.	In-Lawn	208	Tank	Yes	4
Indian Springs	Intersection of Shields Place and E. Shreyer Pl.	In-Lawn	85.1	Tank	Yes	7
Indian Springs	144 Schreyer	In-Lawn	64	Tank	Yes	4
Indian Springs	270 Village Dr	Bump Out	156.2	Tank	Yes	6
Indian Springs	240 Village Dr	Bump Out	156.2	Tank	Yes	4

For bioretention cells with a surface area less than 300 ft^2, a 400-gallon tank was filled from a fire hydrant. A 2-inch hose was then attached to a bung at the bottom of the tank and was oriented to discharge into the bioretention cell inlet. The ball valve on the 2-inch orifice was opened fully and the tank drained via gravity into the bioretention cell. Flow rates from the tank

were measured at three- to five-minute intervals by timing the amount of time it took to fill a 5-gallon bucket from the tank. Drainage from the bioretention underdrain was measured at 2-minute intervals using a stopwatch and a graduated two-liter water pan. Inflow and outflow hydrographs were produced using recorded flow data, and volume reduction, peak flow mitigation, and changes in hydrograph timing were determined for each simulated storm.

For BRCs with surface areas greater than 300 ft^2, the 400-gallon tests often resulted in complete abstraction (i.e., no flow from the underdrain) of runoff. Therefore, flow was sourced from a fire hydrant using a 3-inch diameter regulated flexible hose discharging into the inlet of each bioretention cell. Inflow from the hydrant was monitored on 30-second intervals using a mechanical flow meter and aggregated into 5-minute intervals. Underdrain flow was measured using methods described for smaller bioretention cells. These larger bioretention cells were not tested for water quality performance due to the large volumes of chemicals required for synthetic stormwater mixing and the difficulty in consistently mixing pollutants into large volumes of water discharged from the fire hydrants.

Beginning in spring 2021, water quality testing was also conducted during five simulated storms completed on smaller BRCs (i.e., surface area less than 300 ft^2) using water dosed with sediment and nutrients to reflect the water quality of local stormwater runoff. The locations chosen for this testing were selected based on successful testing during simulated storm testing in previous years. Simulated runoff was prepared using a mixer to suspend and fully mix sediment (local soil from the area), phosphorus (added in the forms of glycine and sodium phosphate), and nitrogen (added as sodium nitrate). The target concentrations of these pollutants in the synthetic stormwater solution are based on the median values present in water quality samples collected between 2016-2019 in Clintonville (Table 6). The pollutant concentrations present in these

samples were compared against median values presented in the National Stormwater Quality database to ensure the synthetic blend is representative of typical residential runoff quality (Pitt 2015). Water quality samples were collected on a volume-proportional basis at the inlet and outlet of each BRC and were analyzed by the City of Columbus laboratory for concentrations of total Kjeldahl nitrogen (TKN), nitrate (NO_3), nitrite (NO_2), total ammoniacal nitrogen (e.g., the amount of ammonia in a sample; TAN), total phosphorus (TP), orthophosphate (OP), and total suspended solids (TSS). Pollutant load reductions were also calculated for each trial. Full water quality analysis of these simulated storm events will be completed after additional testing conducted in 2022 and will be included in the final report submitted in 2023.

Table 6. Synthetic stormwater pollutant concentrations for future water quality simulated storm sampling

Pollutant	Target Concentration (mg/L)
TKN	1.44
$NO_{2\text{-}3}$	0.55
TAN	0.26
TP	0.26
OP	0.10
TSS	142

Laboratory Methods

Following the cessation of rainfall, each monitoring location was visited in succession to obtain samples and transport them to the City of Columbus laboratory for analysis, an approximately 4-hour effort. Composite samples collected in each ISCO were shaken vigorously to resuspend solids and were then subsampled into laboratory sample bottles (Table 7). Composite samples were divided among a pre-acidified 500 mL plastic bottle for cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), nickel (Ni), zinc (Zn), and hardness analysis, a 500mL pre-acidified bottle for TAN, TKN, and NO_2 analysis, a 500 mL bottle for alkalinity, NO_3, and

TSS analysis, a 1L autoclaved bottle for *E. coli* and fecal coliform analysis, and a 50 mL bottle (following field filtration through a Whatman Puradisc 0.45 μm filter) for OP analysis.

Table 7. Sample collection, preservation, and laboratory testing methods as well as method detection limits (MDL) for pollutants analyzed herein.

Parameter	Laboratory Method	Sampling Method	Container	Preservation	MDL (mg/L)
TKN	EPA Method 351.21	Composite	Plastic	H_2SO_4 (<2 pH), <4˚C	0.078
NO_2	EPA Method 353.2	Composite	Plastic	H_2SO_4 (<2 pH), <4˚C	0.018
NO_3	EPA Method 353.2	Composite	Plastic	<4˚C	0.043
TN	Calculated as TKN + NO_2 + NO_3	Composite	Plastic	NA	NA
TAN[1]	EPA Method 350.1	Composite	Plastic	H_2SO_4 (<2 pH), <4˚C	0.0031
ON	Calculated as TKN-TAN	Composite	Plastic	NA	NA
OP	EPA Method 365.2	Composite	Plastic	<4˚C	0.01
PBP	Calculated as TP-OP	Composite	Plastic	NA	NA
TP	EPA Method 365.2	Composite	Plastic	<4˚C	0.1
TSS	Standard Methods 2540D2	Composite	Plastic	<4˚C	2
Total Alkalinity	Standard Methods 2320	Composite	Plastic	<4˚C	6.61
Hardness	Standard Methods 4500-SiO2 D	Composite	Plastic	HNO_3 (<2 pH), <4˚C	0.027
Cyanide[2]	EPA Method 335.4	Grab	Glass	4-6 pellets NaOH	0.0019
Oil and Grease[2]	Standard Methods 2130 B	Grab	Glass	H_2SO_4 (<2 pH), <4˚C	0.15
COD[2]	EPA Method 410.3	Composite	Plastic	H_2SO_4 (<2 pH), <4˚C	5.9
cBOD, 5 day[2]	Standard Methods 5210B	Composite	Plastic	<4˚C	0.59
BOD, 5 day[2]	Standard Methods 5210A	Composite	Plastic	<4˚C	0.31
Parameter	**Laboratory Method**	**Sampling Method**	**Container**	**Preservation**	**MDL**
E. coli	EPA Method 1603	Composite	Plastic	<4˚C	1 CFU/100mL
Microbial source tracking	Quantitative PCR	Composite	Plastic	-80°C	5 gene copies/reaction
Microbiome	Metagenomics	Composite	Plastic	-80°C	10 read count
Resistome	Metagenomics	Composite	Plastic	-80°C	read count
Virulence gene	Metagenomics	Composite	Plastic	-80°C	10 read count
Parameter	Laboratory Method	Sampling Method	Container	Preservation	MDL (µg/L)
Cd	EPA 200.8	Composite	Plastic	HNO_3 (<2 pH), <4˚C	0.013
Cr		Composite	Plastic		0.036
Cu		Composite	Plastic		0.26
Pb		Composite	Plastic		0.0086
Ni		Composite	Plastic		0.025
Zn		Composite	Plastic		0.7

[1]TAN is equal to the laboratory reported NH_3 (ammonia) concentration.
[2]Samples obtained once per quarter for NPDES compliance.

Once per quarter, additional sample volume was taken from the 18.9L composite bottle and preserved as necessary for chemical oxygen demand (COD), biochemical oxygen demand (BOD), and carbonaceous biochemical oxygen demand (cBOD) to meet the National Pollutant Discharge Elimination System (NPDES) permit requirements for the City of Columbus (Table 7). During NPDES sampling, grab samples of runoff were taken from the outfalls into a 250mL amber glass bottle preserved with sodium hydroxide for cyanide analysis and into a 1L amber glass bottle preserved with sulfuric acid for oil and grease analysis. A spot measurement of runoff temperature and dissolved oxygen was taken at the same time as the grab samples using a YSI Pro 1020 instrument (YSI Incorporated, Yellow Springs, OH). Grab samples, runoff temperature, and dissolved oxygen measurements were obtained during the first two hours of a qualifying NPDES storm event.

All water quality samples were immediately placed on ice and chilled to less than 4˚C during transit to the City of Columbus laboratory, located approximately 10 miles from the sampling sites. Total nitrogen (TN), organic nitrogen (ON or OrgN), and particle-bound phosphorus (PBP) were calculated using methods in Table 7. Nitrate-nitrate ($NO_{2\text{-}3}$) concentrations were calculated as the sum of nitrate and nitrite concentrations for each sampled event. Samples were analyzed using either U.S. EPA (1983) or American Public Health Association (APHA et al. 2012) methods.

Data Analysis

Storm events were separated using the following criteria: a minimum antecedent dry period (ADP) of six hours and a minimum rainfall depth of 0.1 inches. Summary statistics for each rainfall event were calculated, including depth (in), duration (hrs), average intensity (in/hr), peak intensity (maximum over any 5-minute duration, in/hr), and ADP (days). Certain rainfall events

were disqualified from the hydrologic data set because: (1) equipment failure caused loss of data, (2) corresponding rainfall data were missing, or (3) data were overwritten due to the length of time between data downloads.

Hydrologic measurements obtained using the AVMs were used to quantify runoff timing, volume, and rate. Runoff volume was determined by integrating under the hydrograph, while peak flow rate was determined as the instantaneous 1-minute maximum flow rate that occurred during the flow duration. When baseflow was not reached before a follow-on event, runoff volume from the first event may be included in the follow-on event, resulting in additional variability in runoff volume generated from a given rainfall depth. The baseflow rate before and after the runoff event was used to remove expected baseflow volume and flow rate from stormflow calculations. Runoff volume and peak flow rate were then normalized by sewershed area to allow for direct comparison between the sewersheds. Runoff and rainfall depth were separately summed across all qualifying hydrologic events; the quotient of these metrics results in the runoff coefficient (C_R) for the sewershed. The timing of the beginning, peak, and end of runoff was utilized to determine the runoff duration and time to peak for each event. Runoff thresholds (RO_T), the rainfall depth at which incipient runoff is generated, were determined as the x-intercept of plots of runoff depth versus rainfall depth.

Following completion of construction activities, diversion of flow to the Blenheim wetland began in early 2020. Thus, results from 2020 and 2021 represent the summation of flow from the Blenheim sewershed outfall and the Blenheim wetland outlet, which will continue for analysis of future data. Because monitoring at the Whetstone and Starrett control sewersheds has only been performed since 2019, the water quality analyses in this report focus on the three treatment sewersheds using Beechwold as a control.

Summary statistics (i.e., range, mean, median, and standard deviation) for pollutant concentrations were determined using EMCs from the monitored outfalls. They were determined for each year of the monitoring period as well as by phase of the Blueprint project, referred to as calibration (i.e., pre-GI) and treatment (i.e., post-GI or post-AI^2) phases in the presentation of water quality results. Side-by-side boxplots and exceedance probability plots of pollutant concentrations were created to examine differences in water quality (Appendix D). Pollutant concentrations from the Clintonville sewersheds were compared against those from previous studies documenting residential runoff quality. They were also compared to data collected from 2007-2017 from thirteen different residential sewershed outfalls in Columbus, Ohio, monitored as part of the NPDES monitoring requirements for the City of Columbus. Observed changes in pollutant concentrations and loads discharged from the sewersheds due to GI implementation were compared to other residential studies quantifying the effects of retrofitted GI.

In a few cases (i.e., two times at Beechwold and once at Cooke-Glenmont), two water quality samples were obtained during a single storm event due to rainfall depth exceeding the 2-inch maximum that the samplers were programmed to monitor. Thus, sites were visited twice, once during and once after the event, to obtain samples. When this occurred, a flow volume weighted average concentration was used in the data analysis. Because of the short ADP (i.e., six hours) used to separate rainfall events, between two and six samples at each site represented the water quality of multiple hydrologic events. This occurred when the flow had not returned to baseflow before the onset of the next rainfall event, causing the samplers to combine two storms within the composite bottle. In these cases, the separate hydrologic events were combined for pollutant concentration and load analysis.

A value of one-half the detection limit was substituted for EMCs below the method detection limit (MDL; Antweiler and Taylor 2008). The only analyte frequently (i.e., greater than half sampled events) present at concentrations below detection limit (BDL) at all sampling locations was cyanide, which was BDL for all sampled events except one at Beechwold and two at Cooke-Glenmont, Blenheim, and Indian Springs. NO_2 was found to be at BDL concentrations in a higher proportion (i.e., 30-50% of sampled events) at Cooke-Glenmont (n=102, 39.2% BDL) and Indian Springs (n=98, 36.7% BDL). Analytes exhibiting a moderate amount of BDL concentrations (i.e., 10-30% of sampled events) were: BOD at Blenheim (n=16 storms, 12.5% BDL) and Cooke-Glenmont (n=22, 13.6% BDL); cBOD at Beechwold (n=22, 22.7% BDL) and Blenheim (n=17, 23.5% BDL); NO_2 at Beechwold (n=118, 38.10% BDL) and Blenheim (n=69, 37.7% BDL).; OP at Indian Springs (n=90, 13.3% BDL); TP at Beechwold (n=154, 11.0% BDL), Blenheim (n=94, 11.7% BDL), and Indian Springs (n=120, 25.8% BDL); TAN at Beechwold (n=154, 14.9% BDL), Blenheim (n=94, 13.8% BDL) and Cooke-Glenmont (n=134, 17.9%); TSS at all four sewersheds (Beechwold n=152, 13.2% BDL; Blenheim n=91, 14.3% BDL; Cooke-Glenmont n=132, 11.4% BDL; Indian Springs n=115, 28.7% BDL); and Cd at Blenheim (n=94, 10.6% BDL) and Indian Springs (n=117, 16.2% BDL). For all other analytes, BDL concentrations were observed for fewer than 10% of sampled storm events. All concentrations above MDL were analyzed without transformation.

Pollutant loads at each monitoring location were determined as the product of pollutant EMC and runoff volume on a storm-by-storm basis. Pollutant loads were reported on a sewershed area-normalized basis and were calculated using Equation 1:

$$L_{\mathrm{I,j}} = 2.205 \times 10^{-6} \times \frac{EMC_{\mathrm{I,j}} \times V_j}{A_{WS}} \quad (1)$$

where $L_{i,j}$ is the load of pollutant i (lb/ac) for storm event j, $EMC_{i,j}$ is the event mean concentration of pollutant i (mg/L) for storm event j, V_j is the runoff volume (L) for storm event j measured after discounting baseflow, A_{WS} is the sewershed area (ac), and the constant converts from milligrams to pounds. Pollutant loads were tabulated and presented in boxplots for comparison among the various project phases (Appendix D).

Annual loading (L_a, lb/ac/yr) was estimated by scaling the ratio of the 30-year average annual rainfall for Columbus (RF_{LTA}, in/yr) to the total rainfall depth sampled for water quality (RF_{SAMP}, in) to determine annual pollutant loads on an area-normalized basis (Equation 2):

$$L_a = 2.205 \times 10^{-6} \times \frac{\sum_{i=1}^{n}(EMC_{i,j} \times V_j) \times RF_{LTA}}{A_{WS} \times RF_{SAMP}} \quad (2)$$

where n is the number of sampled storm events and A_{WS} is the area of a given sewershed (ac). This method assumes that the sampled storm events are representative of the population of runoff volumes and pollutant concentrations which occur in an average year in Columbus.

Annual loading was calculated by project phase by considering each project phase separately to allow for comparison between pre-GI (referred to as pre-GSI in water quality sections), post-GI (referred to as post-GSI in water quality sections), and post-AI[2] phases. Among the four monitored sewersheds included in the pre-retrofit versus post-GSI and pre-retrofit and post-AI[2] analyses, comparisons between pollutant concentration and pollutant load were made to identify statistically significant differences. Hydrology and water quality data were log transformed, after which the histograms and residual plots were visually inspected for normality. The Shapiro-Wilk test was also used to check for normality of model residuals. Analysis of covariance (ANCOVA) was used to compare treatment to control sewersheds when model residuals were normally distributed, demonstrated homoscedasticity, and showed no multicollinearity. Significant differences in regression slopes or intercepts indicated whether meaningful differences in runoff

hydrology or water quality occurred in the sewershed with the installation of GI. This method controls for seasonal, temporal, and other variability by using a control sewershed and allows for confidence in the conclusion that observed changes in a given parameter were specifically due to the implementation of GI and/or the other Blueprint pillars. In several instances, sample sizes were not sufficient to formulate conclusions on trends of specific pollutants; in these cases, statistical analyses were still performed on these data but were identified as preliminary trends only. Additional data collected in the upcoming 2022 monitoring campaign is expected to solidify the preliminary trends observed for many pollutants, which will be presented in the final report submitted in 2023. Percent changes in pollutant concentration and load were calculated and reported using least squares means (LSM) analysis:

$$Change\ (\%) = \left(\frac{10^{\bar{Y}_{Post}}}{10^{\bar{Y}_{Pre}}} - 1\right) \times 100 \quad (3)$$

where $\bar{Y}_{Post}$ is the treatment sewershed LSM during the post-GI or post-AI^2 phases, and $\bar{Y}_{Pre}$ is the treatment sewershed LSM during the pre-GI phase. Conversely, the percent difference between annual load by project phase is simply reported as percent change (since annual load is a single value, not a distribution that can be statistically tested).

The limited sample size of data collected from Blenheim and Cooke-Glenmont in the post-AI^2 phase collected at the time of this report is not sufficient to draw statistically sound conclusions regarding water quality trends following the implementation of the Blueprint Columbus pillars. Summary statistics are presented in the Results section and data collected to-date are summarized graphically in Appendix D. However, discussion of these results has been excluded from the main body of this version of the report. Further, conclusions regarding changes in water quality during the post-AI^2 phase for these sewersheds will not be formulated additional data can be collected. At the time of this report, all trends observed during the post-

AI^2 phase in Blenheim and Cooke-Glenmont have been considered preliminary observations; it is expected that data collected during the 2022 monitoring campaign will bolster analysis and strengthen conclusions, which will be presented in the 2023 final report.

All data analysis was completed using R statistical software version 3.4.2 (R Core Team 2018). Except where noted, a criterion of 95% confidence (α=0.05) was used.

Public Health Impacts

All water samples were immediately processed upon arrival to the laboratory via two types of membrane filtration. An aliquot of water was filtered and placed on modified m-TEC agar and incubated to quantify *E. coli* colony forming units. Additional aliquots of water were filtered via bacterial filter membranes and DNA extraction was conducted to produce concentrated DNA eluent. DNA concentrations of the eluent were further quantified and utilized for quantitative molecular analyses.

E. coli Quantification

Quantification of *E. coli* was performed following the membrane filtration technique (EPA Method 1603) within six hours of sample collection. For each sample, 50 mL of 1/100, 1/1000, and 1/10000 dilutions were prepared using a sterile 1× PBS solution in duplicate and filtered through 0.45 µm nitrocellulose membrane filters (Cat. No. HAWG047S6, Millipore Sigma) using a vacuum. The filter membranes were placed on modified m-TEC agar (Becton) and incubated for 2 hrs at 35°C and then at 44.5°C for 20 hrs in aerobic conditions. After incubation, the number of *E. coli* colonies on each plate were counted, and the mean numbers of colony forming units (CFU) per 100 mL were calculated.

ddPCR Assays

Subsamples (100 mL) of collected water samples were filtered using a sterile 0.22 µm membrane filters (Cat. No. GTTP04700, Millipore Sigma) in triplicate for ddPCR analyses, including microbial source tracking (MST), antibiotic resistance bacteria, and pathogenic bacteria. Microbial DNA was extracted from the membrane filters using a Bead Ruptor (Omni International) followed by a DNeasy PowerSoil Pro kit (Cat. No. 47016, QIAGEN) following instructions from the manufacturer. The final DNA eluent was 100 µL per sample. Quality and quantity of the 201 extracted DNA samples were determined using Nanodrop 2000C (ThermoFisher). The mean concentration of extracted DNA was 42.53 ng/µL. DNA was stored at -20°C for further analysis.

Molecular analyses were then completed to determine the potential public health impacts of stormwater discharged from the study sites. MST was performed to identify major sources of fecal contamination (i.e., human, canine, bird, ruminant, universal) as well as the quantification of genes that encode for resistance to sulfonamide (*sul*1), tetracycline (*tet*Q), and carbapenem (bla_{KPC}). However, bla_{KPC} quantifications are still on-going. We are working on a protocol (primers and probes) for the bla_{KPC} assay. bla_{KPC} quantification will be completed in spring 2022. These results will be included in the final project report submitted in 2023.

Results

Stormwater Runoff Hydrology and Water Quality

Observed Rainfall Events

Between 336 and 346 rainfall events were monitored in the four sewersheds (i.e., Beechwold, Blenheim, Cooke-Glenmont, and Indian Springs) during the 62-month period between June 2016 – December 2021. Of these, 316, 255, 295, and 249 represented qualifying hydrologic events at

the Beechwold, Blenheim, Cooke-Glenmont, and Indian Springs sewershed outfalls, respectively, representing 74-91% of the observed rainfall events. Average rainfall depths for all observed events were 0.58-0.60 inches, and those for the qualifying hydrologic events ranged from 0.59-0.65 inches.

At the Beechwold, Blenheim, Cooke-Glenmont, and Indian Springs outfalls, 135, 83, 113, and 112 storm events were sampled for water quality between 2016-2021, respectively. Storm events sampled for water quality represented between 48.6-136.5 inches, or approximately 35-68%, of the 105.1-202 inches of total rainfall that occurred at the four sewersheds during the monitoring period. Based on the quantity of overall rainfall sampled for water quality analysis, we can conclude that the sampled storm events were representative of the overall distribution of storms observed in the four sewersheds during the monitoring period.

Results from Kruskal-Wallis k-sample tests showed that aside from the median peak and average intensity during the GI construction period, rainfall characteristics (i.e., rainfall depth, average intensity, peak 5-minute intensity, ADP, and rainfall duration) did not significantly differ between the four sewersheds (Table 8) (Kruskal & Wallis, 1952). Thus, while the depth of some of the largest events varied across Clintonville, the rainfall characteristics across the entire population of events were not different. This result was expected since the maximum distance between any of the rain gages was 1.15 miles.

Table 8. Rainfall characteristics in the treatment sewersheds by project period. Asterisks denote significance as determined by Kruskal Wallis test at p<0.05(*) and p<0.10(**).

	Blenheim				Cooke-Glenmont				Indian Springs			
	Project Period				Project Period				Project Period			
	Pre-Retrofit	GI Construction	Post-GI	Post- AI[2]	Pre-Retrofit	GI Construction	Post-GI	Post- AI[2]	Pre-Retrofit	GI Construction	Post-GI	Post- AI[2]
Number of Monitored Events	141	40	27	9	39	31	123	24	86	51	49	150
Total Precipitation (in)	90.6	24.3	47.7	4.32	21.7	17.3	75.6	14.0	49.6	36.3	27.8	82.2
Median Rainfall Depth (in)	0.44	0.48	0.22	0.29	0.37	0.35	0.43	0.38	0.38	0.47	0.44	0.34
Median Peak Intensity (in/hr)	1.20*	0.78	0.72	0.36*	1.20	1.32	0.96	0.72	0.72	1.32*	0.84	0.72
Median ADP (d)	3.1	2.8	4.6	2.5	3.5	3.0	2.8	3.1	3.2	2.89	3.78	2.8
Median Average Intensity (in/hr)	0.09	0.07	0.06	0.09	0.10	0.08	0.07	0.04	0.07	0.11**	0.07	0.07
Number of Storm Events >0.75 in	35	12	6	2	10	8	33	6	22	15	11	32
90th Percentile Storm Depth (in)	1.54	1.14	1.35	1.08	1.10	1.64	1.17	1.21	1.49	1.78	1.15	1.26

Rainfall depth and ADP did not significantly differ across seasons within any sewershed. However, significant seasonality in peak and average rainfall intensity and storm duration was observed; peak rainfall intensities were generally greater in the summer than in fall and spring, and average rainfall intensities were generally greater in summer than in fall. This is likely due to convective thunderstorms that occur in the Columbus area during the summer season (Fritsch et al. 1986). No significant differences were observed in rainfall depth, ADP, and rainfall duration across project phases. Significant differences in peak rainfall intensities across project phases were observed, with phases including from the summer of 2018 having higher peak intensities

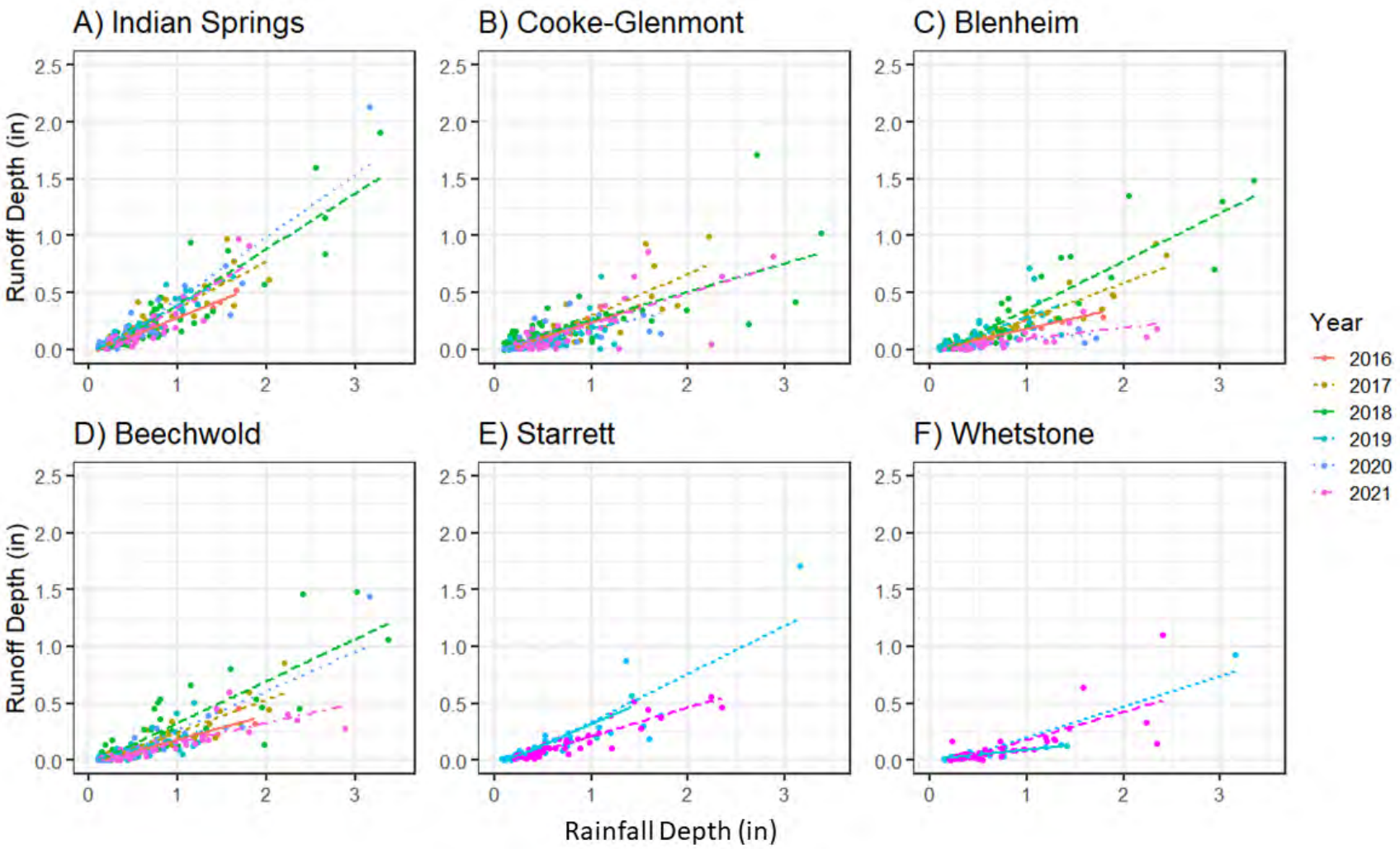
(Table 8). Significantly higher average rainfall intensities were also observed during GI construction at Indian Springs. Conversely, peak rain intensities were found to be significantly lower in the Blenheim and Cooke-Glenmont sewersheds during the post-AI[2] phase. This may be explained by the smaller number of events observed in the project phase to-date, all of which occurred during the fall months in 2021 (when lower peak rainfall intensities are expected in Ohio).

Hydrology

Annual Trends

Rainfall-Runoff Response

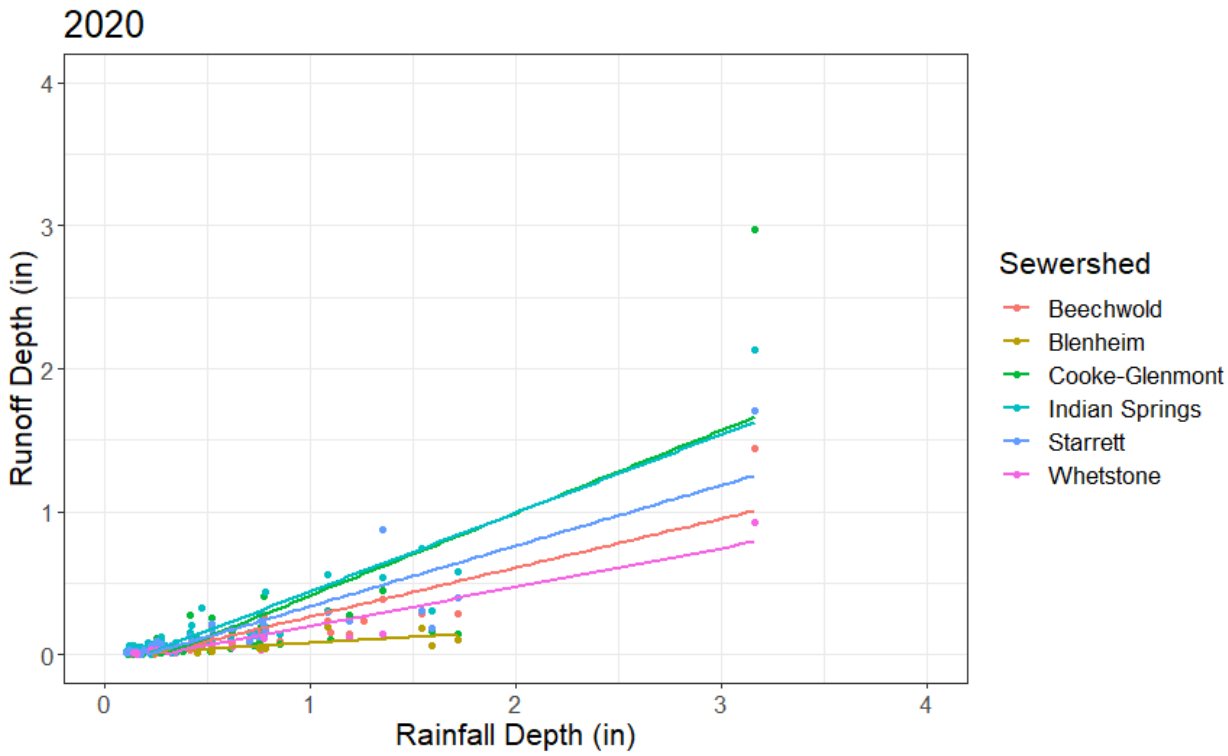
Runoff generation from the four sewersheds was linearly related to rainfall depth ($0.45<R^2<0.92$) across the qualifying hydrologic events (Figure 6). Data collected from the recently added Whetstone and Starrett sewersheds support this trend (R^2 values of 0.57 and 0.85, respectively). The slope of each line was primarily related to rainfall characteristics observed during each phase. Data collected in 2016 and 2017 indicate that the four sewersheds responded similarly across a range of rainfall depths, with regression slopes ranging between 0.27 (Beechwold) and 0.37 (Indian Springs), suggesting that between one-quarter and one-half of rainfall was transmitted as runoff in the sewersheds before GI retrofits were implemented. Similar results were reported by Hood et al. (2007), who observed slopes of 0.21 and 0.37 for regression lines between rainfall and runoff depths from two residential developments in Connecticut.

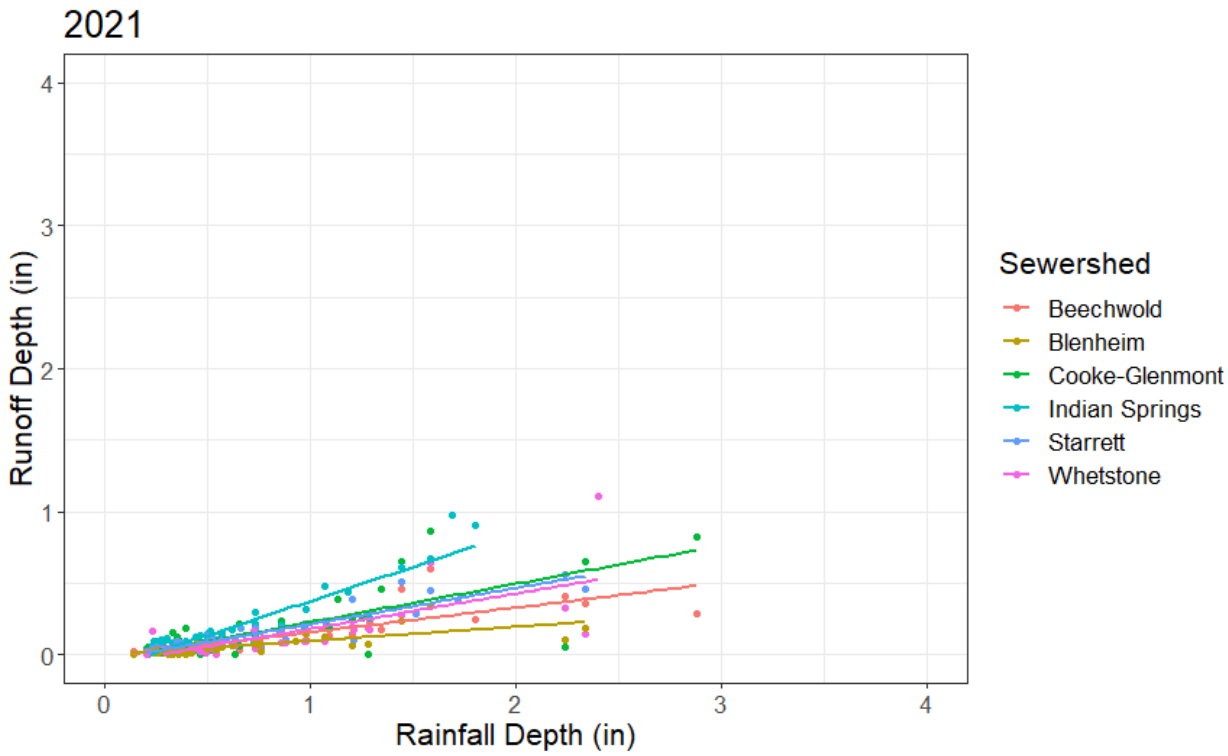

A) Indian Springs
B) Cooke-Glenmont
C) Blenheim
D) Beechwold
E) Starrett
F) Whetstone
Runoff Depth (in)
Rainfall Depth (in)
Year
2016
2017
2018
2019
2020
2021

The monitoring period for the four original sewersheds (i.e., 2016-2021) included 2018, the wettest year on record for the Greater Columbus area. The effects of this rainfall are evident in data from both the Beechwold and Blenheim sewersheds, where the steepest slopes in rainfall-runoff regressions were observed. Similar runoff generation patterns were observed for both the Blenheim and Indian Springs sewersheds until 2020, a surprising result since Blenheim is comprised of a greater percentage of imperviousness compared to Indian Springs (Table 3). However, Indian Springs has a greater percentage of commercial and institutional development; thus, the additional runoff generated per sewershed area may be due to the highly connected nature of the imperviousness often observed in these land uses (Booth and Jackson, 1997). Unsurprisingly, the lowest slope in the rainfall-runoff response was observed in Cooke-Glenmont, which is characterized by relatively low-density residential land use and the lowest percentage imperviousness (Figure 6).

Results from data collected in 2020 and 2021 differed compared to findings from the first four years of the monitoring period (Figure 7 and Figure 8). By the end of 2021, 95-100% of the additional infrastructure improvements were completed in the Cooke-Glenmont and Indian Springs sewersheds (Figure 3). The additional improvements were expected to increase the volume of stormwater reaching the storm sewer compared to previous conditions, where stormwater may have entered sanitary sewers through infiltration and inflow, among other pathways. Because of this progress, the rainfall-runoff response in 2020 and 2021 in both Cooke-Glenmont and Indian Springs was higher than the three control sewersheds which received no sanitary sewer lateral lining, sump pump installation, or downspout redirection. Conversely, progress on completion of the remaining Blueprint pillars in the Blenheim sewershed was not sufficient to yield a similar increase the rainfall-runoff response of the sewershed compared to

the control sewersheds. Additionally, a substantial portion of flow from the Blenheim outfall began being diverted to the Blenheim wetland in 2019, which may have been under-estimated due to equipment failures that occurred at both the Blenheim outfall and Blenheim wetland outlet in 2020 and 2021. Data collected during the 2022 monitoring campaign is expected to allow this analysis to be more robust in the 2023 final report.


2020
Runoff Depth (in)
Rainfall Depth (in)
0
1
2
3
4
Sewershed
Beechwold
Blenheim
Cooke-Glenmont
Indian Springs
Starrett
Whetstone


2021
Runoff Depth (in)
Rainfall Depth (in)
0
1
2
3
4
Sewershed
Beechwold
Blenheim
Cooke-Glenmont
Indian Springs
Starrett
Whetstone

Runoff Coefficient

Runoff coefficients (C_R) for the monitored sewersheds are presented in Table 9. Many factors impact the runoff coefficient of a watershed, with increases in soil compaction, percent imperviousness, and slope as well as decreases in vegetated cover causing increases in C_R (Leopold 1991; Line and White 2002). Runoff coefficients from the six sewersheds in Clintonville varied from 0.15 to 0.33 prior to the installation of GI, on the lower end of previously reported values for typical single-family residential areas (0.30-0.50; Dunne and Leopold, 1978). They were, however, similar to two residential neighborhoods in Waterford, CT (0.19-0.24; Hood et al. 2007). Line and White (2007) found C_R of 0.55 for residential development on moderate slopes with clayey soils. Infiltration and inflow into sanitary sewers and porous trenches around pipes in Clintonville could result in storage or secondary (unmonitored) outlets for stormwater, potentially reducing the C_R derived from data collected at the sewershed outfall. Additionally, since roads and parking lots represented only about one-third of the TIA in the Clintonville sewersheds, the differences could be attributed to a lower amount of directly connected imperviousness compared to other studies (Table 3). Finally, parts of Clintonville were developed nearly a century ago; the elapsed time since the initial development of the area may have allowed for the development of a soil profile dissimilar to the typical compacted urban soils (Carmen et al. 2016), allowing for proportionately greater than expected infiltration into the silt loam soils mapped in the neighborhood.

Table 9. Runoff coefficients (C_R) for the Clintonville sewersheds prior to the addition of GI and previously reported values in the literature.

Sewershed or Reference	Runoff Coefficient	Percent Impervious	Primary Land Use	Soil Texture	Drainage Area (mi^2)	Location
Beechwold	0.22	38.2	Residential	Silt Loam	0.43	Columbus, OH
Blenheim	0.23	44.5	Residential	Silt Loam	0.24	Columbus, OH
Cooke-Glenmont	0.27	30.9	Residential	Silt Loam	0.05	Columbus, OH
Indian Springs	0.36	40.3	Residential	Silt Loam	0.18	Columbus, OH
Starrett	0.29	34.7	Residential	Silt Loam	0.09	Columbus, OH
Whetstone	0.15	35.3	Residential	Silt Loam	0.07	Columbus, OH
Page et al (2015b)	0.38	60	Residential	Sandy	0.002	Wilmington, NC
Line and White (2007)	0.55	53	Mixed Use	Clayey	0.015	Raleigh, NC
Leopold (1991)	0.35	40	No data	No data	0.25	San Francisco, CA
Leopold (1991)	0.18	27	No data	No data	1.17	San Francisco, CA
Barrett et al. (1998)	0.4	37.6	Commercial/High Density Residential	No data	0.04	Austin, TX
Hood et al. (2007)	0.19	29	Residential	Sandy Loam	0.021	Waterford, CT
Hood et al. (2007)	0.24	32	Residential	Sandy Loam	0.008	Waterford, CT

Runoff coefficients can also vary annually because of precipitation patterns or development in the sewershed in a given year (Table 10). Similar, increasing trends in C_R were observed in the four sewersheds monitored between 2016-2018 (Figure 9) as the number of monitored storm events and quantity of annual rainfall increased (from a partially monitored year in 2016 to the record rainfall experienced in 2018). However, divergent patterns were evident in the data beginning in 2019. Active construction in the Indian Springs and Blenheim sewersheds likely accounted for observed increases in C_R, while lack of construction and fully-operational GI in

the Cooke-Glenmont sewershed resulted in an approximately 50% reduction in C_R, similar to that observed in the control sewershed, Beechwold (Figure 3; Table 10). Trends in C_R in 2020 and 2021 also reflected the progress made toward completing the remaining Blueprint pillars in the Indian Springs (100% complete) and Cooke-Glenmont (95% complete). Similar to changes in rainfall-runoff responses, the influx of runoff previously diverted to secondary/unmonitored pathways (e.g., infiltration and inflow into sanitary sewers) likely explain the increase in C_R in these sewersheds compared to previous years. After the construction of the Blenheim wetland in 2019, C_R values decreased by over 50% compared to previous years (Table 10, Figure 9). The wetland was constructed to divert a substantial portion of flow from larger events in the Blenheim sewershed, decreasing the flow measured at the existing Blenheim monitoring point and providing temporary detention and treatment of runoff (Kadlec and Wallace 2009). The lower number of events with reliable data from both Blenheim and the Blenheim wetland in 2020 and 2021 (40 of the 72 total events) also partly explains the very low C_R observed for Blenheim in the past two years. Future data from the Blenheim wetland will continue to be paired with outflow from the Blenheim outfall to provide a more accurate C_R for the Blenheim sewershed in the 2023 final report.

Table 10: Yearly comparisons of runoff coefficients (C_R) for all six monitored sewersheds.

Year	Beechwold	Blenheim	Indian Springs	Cooke-Glenmont	Starrett	Whetstone
2016	0.16	0.18	0.27	0.20	-	-
2017	0.24	0.24	0.35	0.26	-	-
2018	0.31	0.32	0.35	0.27	-	-
2019	0.16	0.26	0.36	0.16	0.27	0.09
2020	0.19	0.09	0.40	0.35	0.29	0.16*
2021	0.15	0.08	0.31	0.22	0.19	0.15
Overall	0.21	0.23	0.35	0.25	0.24	0.15

*Equipment failure resulted in approximately 50% fewer storm events captured at Whetstone in 2020 compared to the other sewersheds.

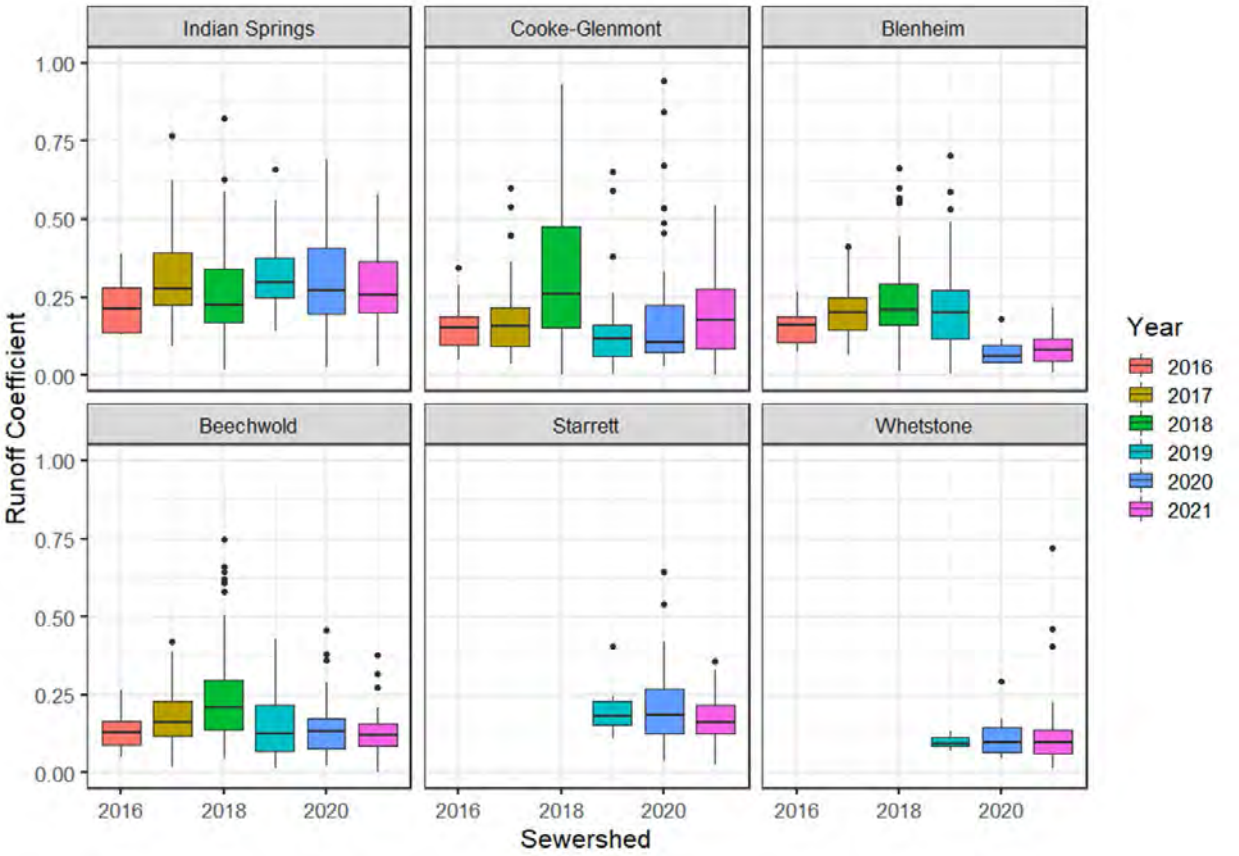


Figure 9: Yearly changes in the distribution of runoff coefficients in the six monitored sewersheds between 2016-2021.

Pre- vs. Post-GI and Post-AI²

Runoff Depth

Runoff depths in Indian Springs and Cooke-Glenmont significantly increased by 10% and 60%, respectively, in the post-AI² phase compared to the control sewershed (Table 11, Figure 10). Significant differences in regression slopes were observed at Indian Springs and Cooke-Glenmont during the post-AI² phase, indicative of changes in runoff generation patterns within the sewershed which did not occur in the control. Larger runoff depths were discharged from the sewershed during smaller rain events compared to the control and discharge during previous project phases, illustrating the additional water redirected to the outfall from downspout disconnection, lateral lining, and sump pumps installed in the sewershed (Table 4). As Cooke-Glenmont has the smallest sewershed area compared to others in this study, a higher percentage

of homes in the sewershed benefitted from additional infrastructure improvements compared to Indian Springs (Table 4). The density of additional infrastructure improvements paired with the style of GI retrofits in the sewershed (i.e., larger, regional BRCs) may explain the magnitude of change observed in Cooke-Glenmont. However, because of the statistical power of this analysis, the change in runoff depth observed in Indian Springs can be directly attributed to Blueprint Columbus efforts in the sewershed. Data collected during the 2022 monitoring campaign are expected to refine the trends observed in the Cooke-Glenmont sewershed, which will be presented in the 2023 final report.

Table 11. Summary statistics and ANCOVA results for runoff depth (in) comparisons between treatment and control sewersheds. Statistically significant changes in LSM compared to pre-GI phase are denoted in bold (p<0.05) or italics (p<0.10), indicating the change in LSMs occurred differently in treatment sewersheds compared to the control over the same period.

	Pre-GI			Post-GI					Post-AI[2]				
Sewershed	**n**	**Median**	**LSM**	**n**	**Median**	**LSM**	**p-value**	**% Change LSM**	**n**	**Median**	**LSM**	**p-value**	**% Change LSM**
Indian Springs	56	0.12	0.20	35	0.12	0.21	0.17	5.0	94	0.10	0.22	0.002	**10.0**
Cooke-Glenmont	22	0.06	0.12	99	0.09	0.14	0.52	16.7	13	0.10	0.30	0.02	**60.0**
Blenheim	106	0.10	0.17	16	0.04	0.10	0.07	*-41.2*	6	0.07	0.13	0.99	-23.5

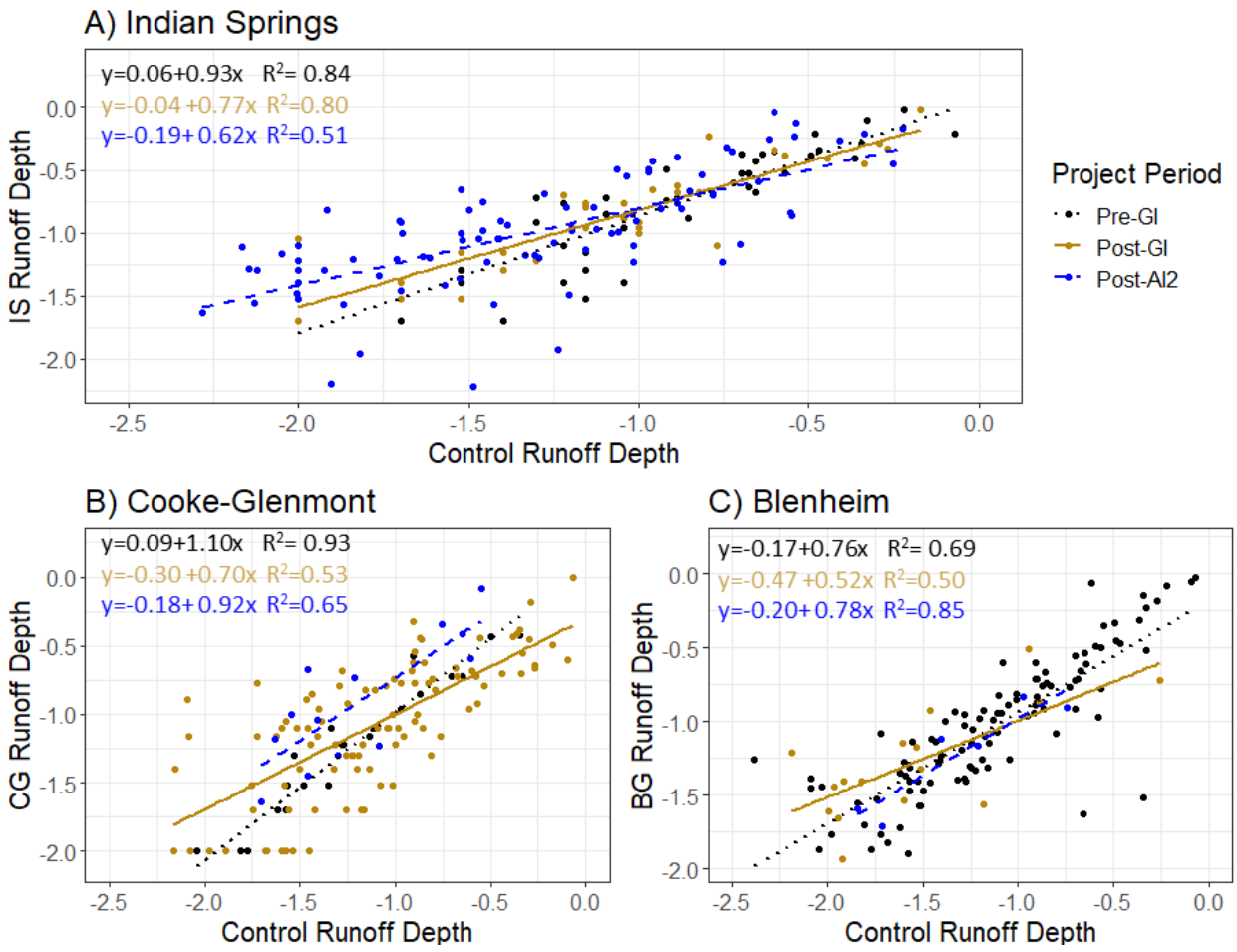


Figure 10. Runoff depth relationships for the treatment sewersheds and control (Beechwold) during the various project periods. Note: runoff depths are log transformed. Changes in slope indicate differences in the runoff depth relationship between the control and treatment sewershed between the pre-GI and post-GI (or post-AI[2]) project phases.

Prior to the completion of additional infrastructure improvements, runoff depths in the Cooke-Glenmont and Indian Springs sewersheds increased between the pre-GI and post-GI phases by 17% and 5%, respectively. However, these changes were not significantly different from increases in runoff depth observed in the control sewershed during the same time periods. This result may have been influenced by the record rainfall experienced in Columbus in 2018 for Cooke-Glenmont (Table 8) as well as the additional infrastructure improvements occurring during the post-GI phase in the Indian Springs sewershed (Figure 3), which introduced additional runoff volumes to the sewershed that were not present in the pre-GI phase.

The 41% (p<0.1) and 24% reduction in runoff depths observed in Blenheim for the post-GI and post-AI^2 periods, respectively, is likely due to the hydraulic capacity of the constructed wetland, which received a greater portion of flows from larger rain events once construction of it was completed. The low number of storms observed in these phases (n=16 and n=6 in the post-GI and post-AI^2 phases, respectively) represented rainfall events with lower average rainfall depths and intensities compared to the pre-GI period (Table 8), which may influence results of this analysis. Monitoring data to be collected in 2022 is expected to strengthen this analysis and may elicit trends resembling those observed in the other treatment sewersheds following completion of the Blueprint infrastructure improvements.

Runoff Threshold

Runoff thresholds were calculated for each of the treatment sewersheds and project phases and ranged from 0.01-0.18 in (Table 12, Figure 11). The RO_T in the control sewershed (Beechwold) was determined for each project phase after separating the data based on the dates of phase completion in each treatment sewershed (Figure 3). Page et al. (2015b) and Hood et al. (2007) reported similar RO_T for residential neighborhoods in Wilmington, NC (0.13 in) and Waterford, CT (0.11 in), respectively, to those herein. Between the pre- and post-GI period, an increase in the RO_T was observed in the treatment sewersheds, indicating that a greater rainfall depth was required for runoff to occur in these sewersheds. Conversely, the RO_T in the control sewershed, Beechwold, decreased between the pre- and post-GI phases of the Indian Springs and Blenheim sewersheds. This difference in runoff response can be attributed to the addition of depressional storage volume provided by the GI, while changes in rainfall characteristics during the post-GI phase likely contributed to decreased RO_T in the control sewershed. Runoff thresholds in the Indian Springs and Cooke-Glenmont sewersheds decreased to pre-GI levels in the post-AI^2 phase (Table 12), signaling the increased runoff volumes diverted to the outfall due

to the completion of (or progress toward completing) additional infrastructure improvements compared to previous project phases. Results for Blenheim may be skewed by small sample sizes in the post-GI and post-AI^2 periods (n=16 and n=6 respectively); data collected during 2022 is expected to increase the sample size of the post-AI^2 dataset. Data presented in the 2023 final report is expected to demonstrate the combined effect of GI and the additional Blueprint project pillars on RO_T in the treatment sewersheds compared to the project control.

Table 12. Runoff threshold (RO_T) (inches) for each treatment sewershed compared to the control (Beechwold) for the various project phases.

Project Phase	Blenheim	Control (Blenheim)	Cooke-Glenmont	Control (CG)	Indian Springs	Control (IS)
Pre-Retrofit	0.06	0.18	0.03	0.09	0.04	0.15
Post-GI	0.07	0.06	0.04	0.14	0.06	0.07
Post-AI^2	0.05	0.03	0.03	0.01	0.03	0.06

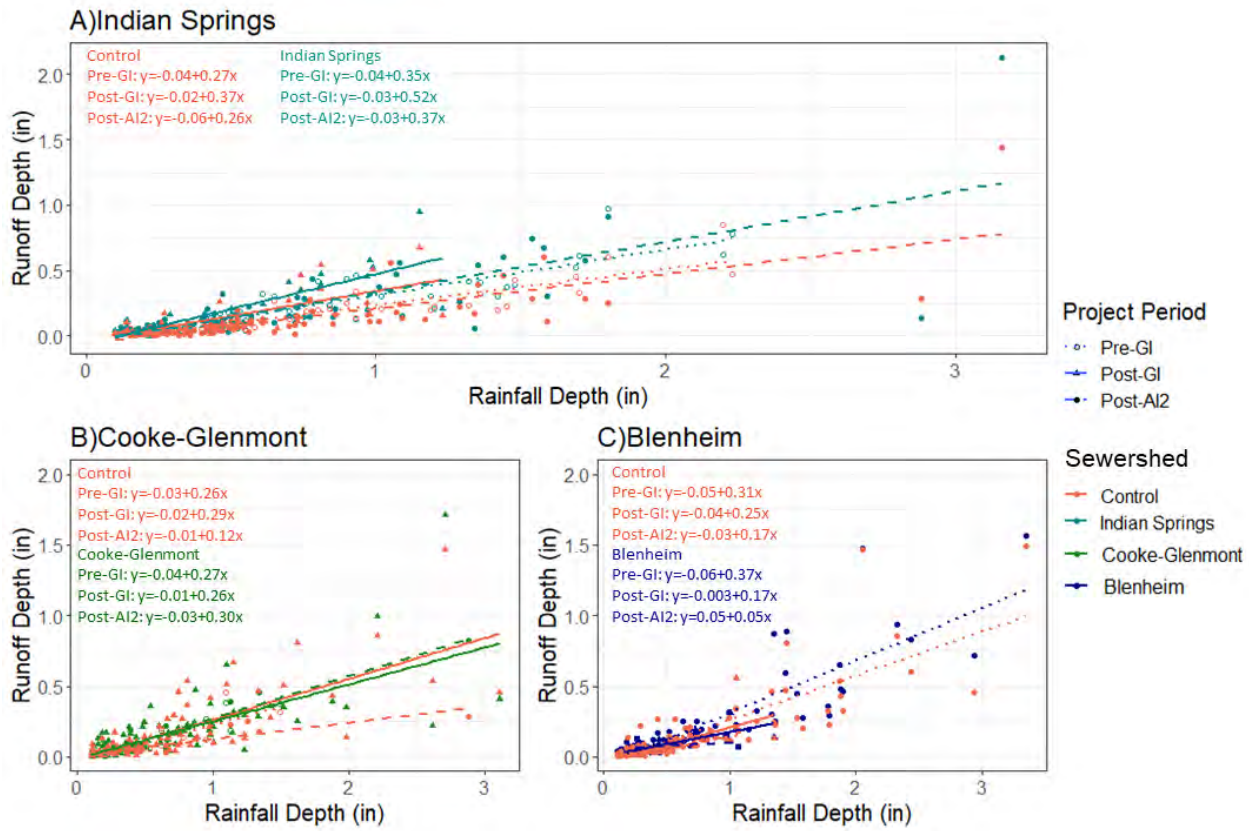


Figure 11: Comparisons of runoff-rainfall responses for three treatment sewersheds and control (Beechwold) for all project phases.

Runoff Coefficient

Changes in C_R between the pre- and post-GI phases in the treatment sewersheds were similar to those observed in the control sewershed (Table 13, Figure 11, Figure 12). This was particularly true for the sewersheds where GI was operational for longer durations (i.e., Cooke-Glenmont and Indian Springs), where the differences in the change in C_R from pre-retrofit to post-GI between the treatment sewershed and the control were 0.08 and 0.11, respectively. Decreases in C_R between the phases indicate that less runoff was generated from the sewershed per unit rainfall depth. The post-GI phases in the Cooke-Glenmont and Indian Springs sewersheds included much of 2018, the wettest year on record in Columbus, which could explain the increase in C_R observed for these sewersheds between the project phases. Conversely, C_R

decreased between the pre- and post-GI phases in the Blenheim sewershed; this trend likely conflicts with the other treatment sewersheds because the post-GI phase in Blenheim did not include data form 2018. Runoff coefficients for the Indian Springs and Cooke-Glenmont sewersheds also increased between the pre-GI to post-AI^2 periods yet decreased in the control sewershed between the same periods. As with RO_T, this discrepancy could be also due to the completion of other pillars of the Blueprint Columbus project in the Indian Springs and Cooke-Glenmont areas, which added water into the storm sewer system that may have been previously routed to other pathways. Results for the Blenheim sewershed were likely skewed by the runoff volumes diverted to the Blenheim wetland beginning in late 2019 and the small sample size of data collected from this sewershed. Data collected from the Blenheim sewershed in 2022 is expected to confirm trends in the other treatment sewersheds.

Table 13. Comparison of runoff coefficient (C_R) for the three treatment sewersheds to the control sewershed (Beechwold) during the project phases. Change in C_R are relative to pre-Retrofit period.

Sewershed	Pre-Retrofit	Post-GI		Post- AI^2	
	C_R	C_R	ΔC_R	C_R	ΔC_R
Blenheim	0.26	0.19	-0.08	0.14	-0.12
Control (Blenheim)	0.23	0.16	-0.08	0.10	-0.13
Cooke-Glenmont	0.20	0.25	0.05	0.26	0.06
Control (Cooke-Glenmont)	0.18	0.23	0.05	0.13	-0.06
Indian Springs	0.29	0.40	0.11	0.30	0.01
Control (Indian Springs)	0.21	0.30	0.09	0.17	-0.04

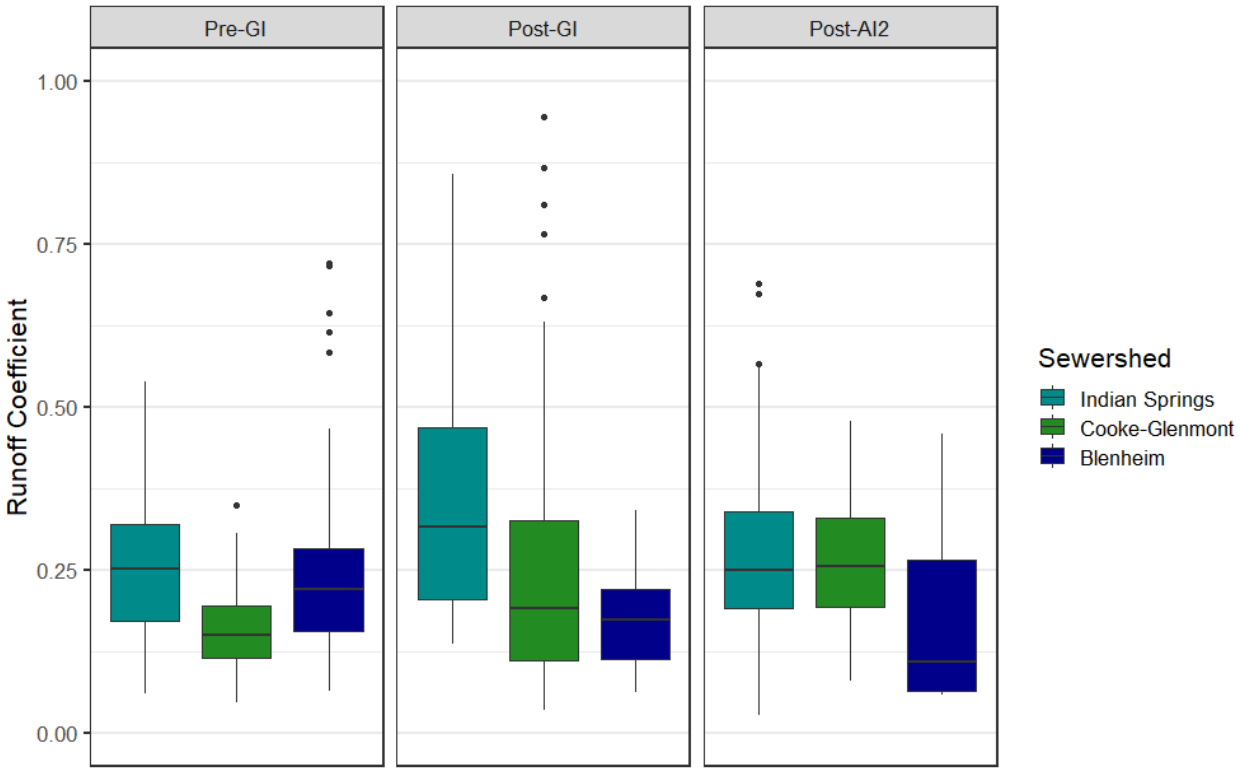


Figure 12: Distribution of runoff coefficients during storm events in each of the treatment sewershed by project phase.

Normalized Peak Runoff Flow Rate

Sewershed area-normalized peak discharge (in/hr), also known as areal peak discharge, was plotted against peak rainfall intensity (Figure 13). A linear relationship explained approximately 70±8% of the variance in the peak flow rates across the four sewersheds during the pre-retrofit period. The variability of the normalized peak flow rates increased following GI implementation in the treatment sewersheds. Weaker linear relationships and larger standard deviations between the sewersheds were observed in the post-GI and post-AI^2 phases (50±24%), potentially influenced by the smaller datasets corresponding to these periods. The greatest increase in variability was observed in the Cooke-Glenmont sewershed. Not only did Cooke-Glenmont have over four times the number of storm events in the post-GI period (n=99), but many of these

storm events occurred in 2018 (the wettest year on record in Columbus), while storms occurring in 2019 and 2020 had lower intensities and rainfall depths (Table 8).

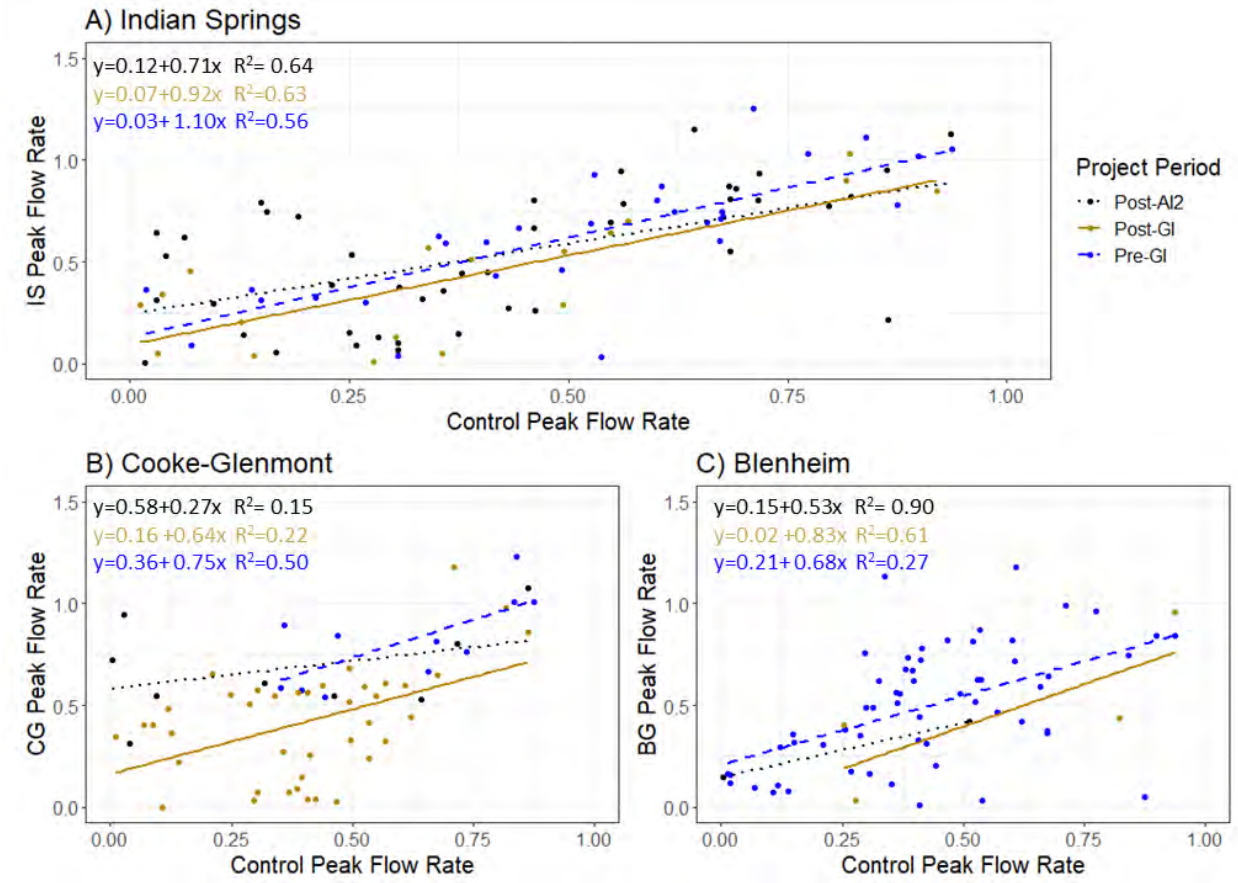


Figure 13. Area normalized peak flow, also referred to as areal peak discharge (in/hr), in the treatment sewersheds compared to the control (Beechwold). Note that data from the monitored sewersheds have been log transformed. Changes in slope indicate differences in the normalized peak flow relationship between the control and treatment sewershed between the pre-GI and post-GI (or post-AI^2) project phases.

The primary design objective driving the size of the bioretention cells in Clintonville was TSS reductions as opposed to peak flow mitigation. The post-GI phase in the Cooke-Glenmont sewershed included 33 storm events greater than 0.75 inches, corresponding to over 33% of the monitored storms exceeding the design storm event depth. These events could result in a partial bypass of the bioretention cells, conveying runoff directly into the storm sewer and effectively returning the response of the sewershed to the patterns exhibited in the pre-GI project phase.

The two sewersheds with the largest drainage areas (Beechwold and Blenheim) had comparatively lower normalized peak flow rates than the remaining sewersheds (Table 14). Cooke-Glenmont had the highest median area normalized peak flow during the post-AI^2 phase (0.14 in/hr), which was unexpected, considering it has the lowest imperviousness of the treatment sewersheds in the study (Table 3, Table 14). However, because Cooke-Glenmont has the smallest sewershed area, the effects of travel time and soil storage on the hydrograph are less pronounced. Holding other factors constant, less dampening of peak flow rates will occur as the area of the sewershed becomes smaller (Goodrich et al. 1997; Moody and Martin 2001).

Table 14. Summary statistics and ANCOVA results for area normalized peak flow rate (in/hr) comparisons between treatment and control sewersheds. Changes in area normalized peak flow rate were not significantly between any of the project phases.

	Pre-GI			Post-GI					Post-AI^2				
Sewershed	**n**	**Median**	**LSM**	**n**	**Median**	**LSM**	**p-value**	**% Change LSM**	**n**	**Median**	**LSM**	**p-value**	**% Change LSM**
Indian Springs	56	0.08	0.13	35	0.05	0.11	0.57	-16.4	94	0.05	0.12	0.27	-10.2
Cooke-Glenmont	22	0.10	0.13	99	0.03	0.08	0.16	-42.3	13	0.14	0.14	0.53	9.2
Blenheim	106	0.05	0.10	16	0.04	0.07	0.78	-30.0	6	0.03	0.07	0.86	-30.0

Significant differences were not observed in slopes of the linear models between the pre-GI and post-GI, and between pre-GI and post-AI^2 phases in the treatment sewersheds compared to the control (Table 14). Though not statistically different from changes in peak flow observed in the control sewershed during similar phases, reductions of 10-42% occurred across all treatment sewersheds between pre-GI and the post-GI and between pre-GI and post-AI^2 phases. The significant differences in the intercepts of the models point to different flow rates that would be expected at lower rainfall intensities. Models of the treatment sewersheds point toward higher flow rates with larger variance during lower intensity rain events compared to their responses in the pre-GI phase. Hunt et al. (2012) reported that peak flow mitigation from individual bioretention cells was directly related to the amount of storage volume and infiltration rates of the practices. These critical aspects of bioretention cells are determined during the design phase based on objectives such as capturing runoff from a design storm event depth (in this case 0.75 inches). Storm events exceeding the storage capacity set by design (and as-built) parameters of these practices contribute runoff directly to sewer systems at high flow rates during higher intensity, larger storm events, even with GI installed in the sewersheds. Because these factors may vary across each of the bioretention cells installed in the sewersheds, this may explain why peak flow mitigation may or may not be seen at the sewershed scale.

Simulated Storm Testing

Simulated storm testing was performed in the Cooke-Glenmont, Indian Springs, and Schreyer Springs sewersheds over the course of two days in 2018, three days in 2019, five days in 2020, and five days in 2021. In 2018, short-circuiting was observed at one cell and the other two cells produced no outflow (i.e., runoff was completely captured). The seven tests performed

in 2019 were conducted at four BRCs, while the 24 and 14 tests performed in 2020 and 2021, respectively, were performed at 13 BRCs.

A comparison of inflow and outflow hydrographs for a simulated storm test completed in August 2020 in Indian Springs is presented in Figure 14. Test results indicate that the BRC reduced runoff volumes by approximately 86%. Outflow duration was lengthened compared to inflow duration, evident in the tails of the outflow hydrograph in Figure 14. This points to both runoff reduction and an increase in lag time, two metrics commonly used to evaluate BRC performance (Hunt et al. 2008; Schlea et al. 2014). The same BRC was also tested in August 2019 when volume reductions were approximately 70%. The 2019 test occurred after an ADP of less than 2 days, compared to the nearly 5 days of dry weather preceding the test performed in 2020. Thus, it is likely that antecedent conditions contributed to the differences in volume and peak flow reductions observed between the tests. Similar results were observed for tests performed at other BRCs in the Indian Springs area in 2019-2020.

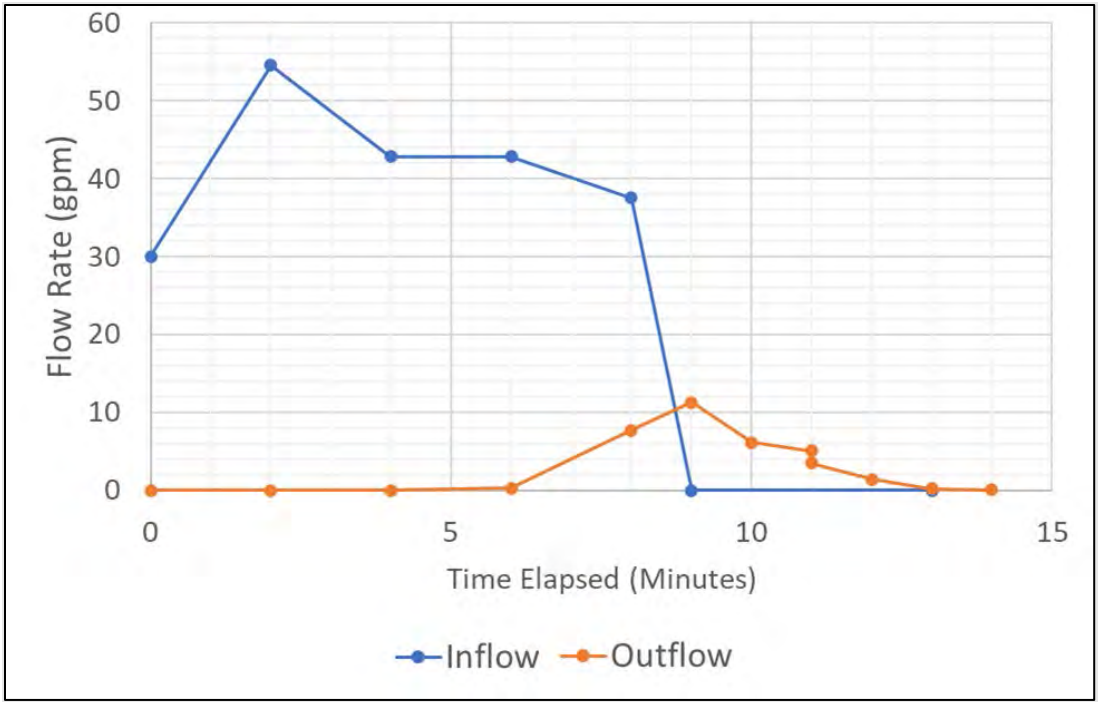


Figure 14. Inflow and outflow hydrographs from simulated storm testing performed at a bioretention cell in the Indian Springs sewershed (270 Village Dr). The increase in inflow rate between 0 and 2 minutes reflects the full opening of the valve after the test began, which more commonly occurred immediately after tests commenced.

Another successful test was completed at the same BRC in Indian Springs in May 2021, resulting in volume reductions of 90% (Appendix C). However, when the same BRC was tested again at the end of September, only a small fraction of the total inflow (less than 200mL) was able to be collected at the underdrain 10 minutes after the onset of testing. A similar observation was made during testing on the other BRC on the same street; where testing was once successful, a lack of outflow at the underdrains were observed. Remnants of road construction and new pavement to other existing manholes observed along the street lead to the hypothesis that such construction created additional drainage pathways for inflows, reducing flows through the underdrain. Testing in 2022 will allow us to confirm or refute observations stemming from trials in September 2021.

Peak flow reductions for the simulated storm tests are likely a function of inflow being gravity fed from the tank. The peak flow thus occurs at the onset of the hydrograph when the soil

is driest and most apt to accept stormwater. This consistent inflow pattern, paired with high infiltration rates of the bioretention media, likely contributed to the similar lag times observed across the BRCs included in simulated testing.

Summary statistics from simulated storm testing completed in 2018-2021 are presented in Table 15 and Figure 15. Results from all simulated storm testing performed to-date can be found in Appendix C. Data from simulated storm testing was analyzed based on year, project area, and BRC design (i.e., whether the cell was installed in the right-of-way (ROW) or as a curb bump-out which extended into the roadside parking area). Mean volume reductions from testing performed to-date (71%) were similar to those reported by Schlea et al. (2014) for BRCs in Westerville, Ohio.

Table 15. Summary statistics for simulated storm testing in 2018-2020.

Dataset (number of tests)	Volume Reduction (%)		Peak Flow Reduction (%)		Lag Time (min)	
	Mean	St. Dev.	Mean	St. Dev.	Mean	St. Dev.
All Tests (46)	71	25	76	19	9	4
2018 Tests (2)	39	7	67	9	10	4
2019 Tests (7)	64	28	74	9	9	3
2020 Tests (24)	73	24	83	15	7	2
2021 Tests (14)	75	20	63	27	11	5
Indian Springs BRCs (18)	67	26	67	15	7	2
Cooke-Glenmont BRCs (12)	87	7	94	3	10	3
Schreyer-Springs BRCs (14)	62	30	71	10	11	3
ROW BRCs (25)	58	24	65	15	9	3
Bump Out BRCs (19)	88	9	90	9	5	3

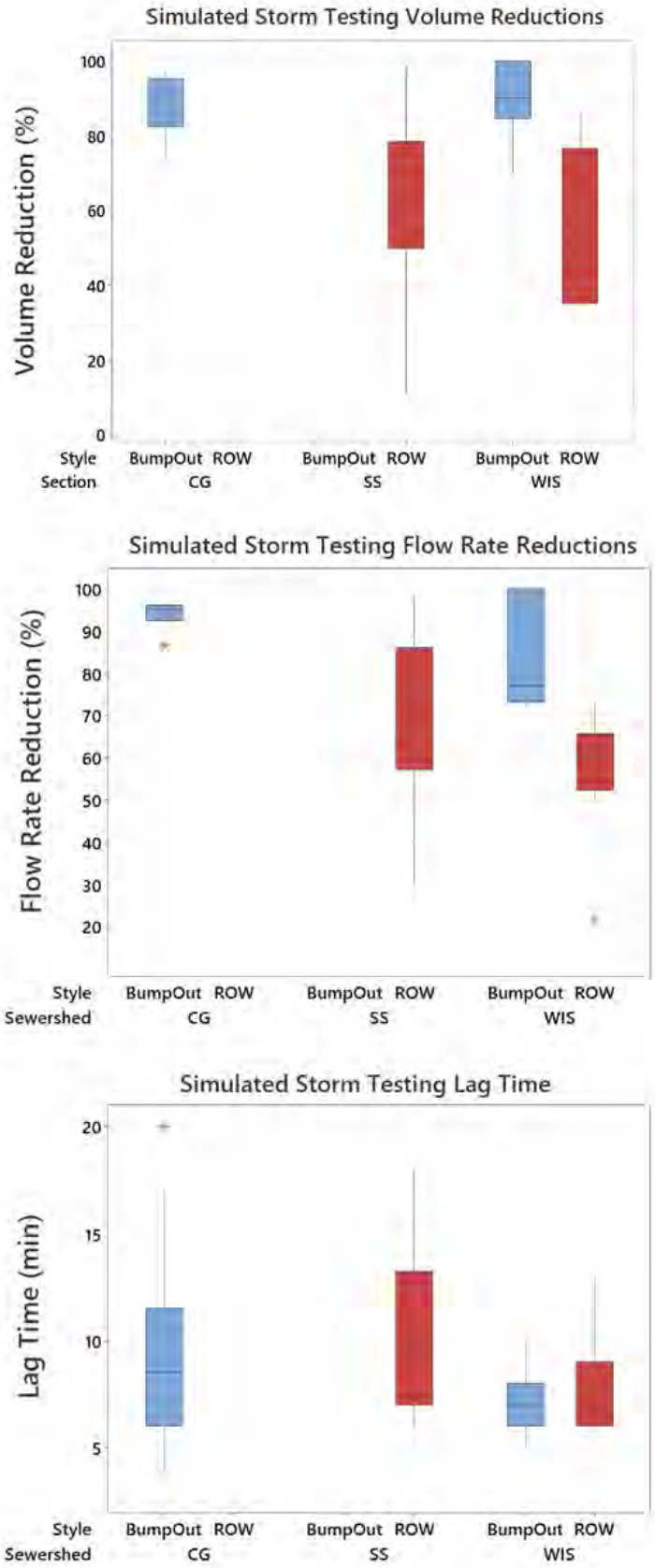


Figure 15: Simulated storm performance by BRC design type and sewershed.

The highest volume and peak flow reductions (87% and 94%, respectively) were observed during testing of BRCs in the Cooke-Glenmont sewershed (Table 15), all of which were bump-outs. A mean volume reduction of 67% was observed from tests performed on a mix of ROW and bump-out BRCs in the Indian Springs sewershed. Conversely, the lowest volume reductions (mean reduction of 62%) were observed in the Schreyer-Springs sewershed, where only ROW-style BRCs were included in testing. This trend was confirmed by the comparison of ROW versus bump-out BRCs, which suggests that bioretention design style results in a difference of over 33% (Table 15).

A possible explanation for the higher volume reductions observed from the bump-out BRC is the proximity to subsurface infrastructure (e.g., utility lines, sanitary and storm sewers) which may provide preferential hydrologic pathways for water percolating through the BRCs that bypass the underdrain. This would lead to less drainage through the underdrain, yielding larger volume and flow reductions based on our methods of simulated storm testing. Further, the lower standard deviations across testing in the bump-out BRCs compared to ROW BRCs indicate these results were consistent across a range of ADP and other factors that could influence test results. That said, no flows discharging through preferential pathways were visually observed in the dataset summarized in Table 15.

Regression analysis was performed to model the effects of BRC surface area and design on volume reduction (Figure 16). Based on data collected to-date, models indicate a positive linear relationship between BRC surface area and volume reduction and confirm trends in volume reduction based on BRC design type. However, additional data are needed to improve model accuracy and perform tests for statistical significance between the BRC design types.

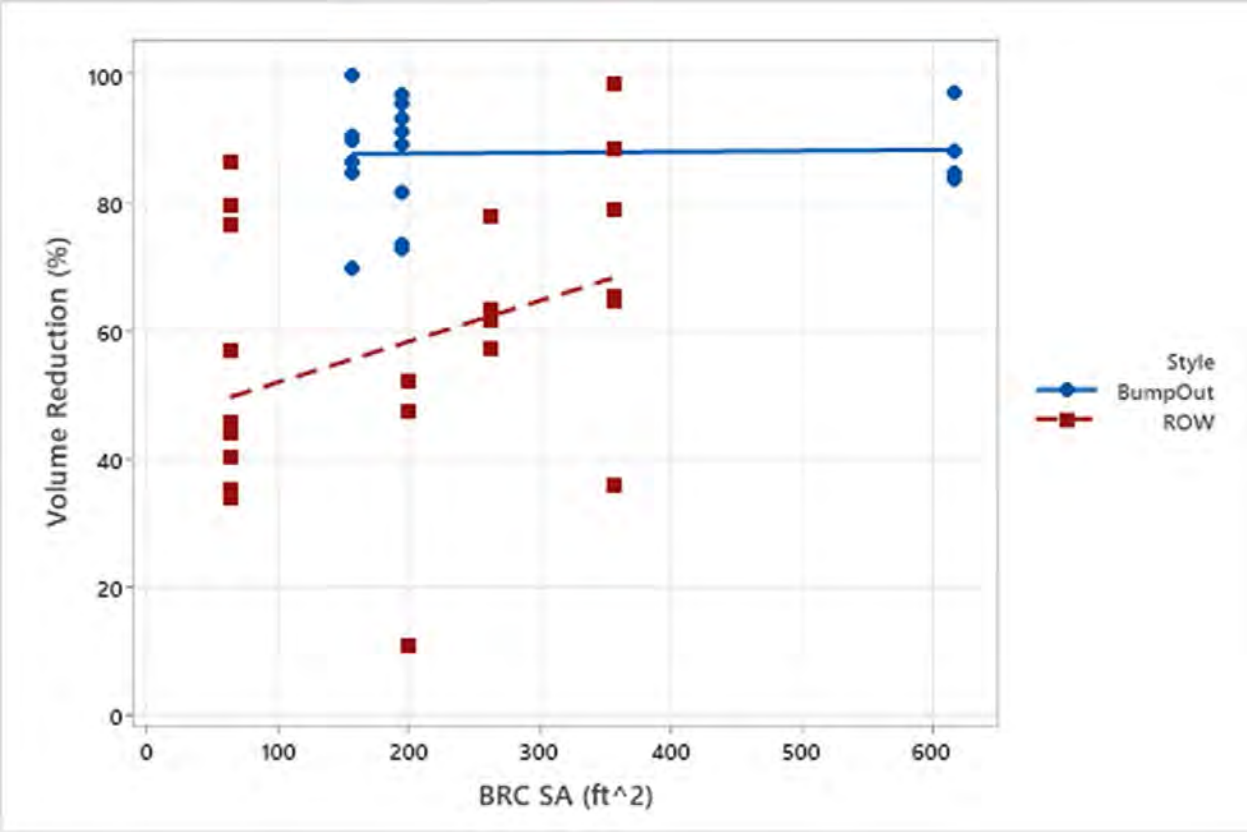


Figure 16: Volume reduction as a function of bioretention cell (BRC) surface area for practices constructed in the right-of-way (ROW) or as bump-outs (BMPOUT) into roadside parking areas.

Simulated storm testing will expand in 2022; however, difficulties have been documented regarding the duration of simulated storm testing in some areas. Barriers encountered during testing to-date include: (1) connections between the BRCs in the Blenheim sewershed to the sewer systems are located in the middle of the road, where paving delayed testing until November 2021, and (2) bioretention underdrains in several of the sewersheds, namely Overbrook-Chatham, Morse-Dominion, and portions of the Schreyer-Shields sewershed, are connected to the bottom of the catch basin via a smooth connection (i.e., no drop between the outlet pipe and the sewer network), making traditional outflow measurements infeasible. Due to these challenges, it was determined that testing in the Blenheim sewershed would be delayed until 2022; further, no simulated storm testing will be performed in the Overbrook-Chatham and

Morse-Dominion sewersheds. Final conclusions of the simulated water quality events will be presented in the 2023 final report in order for data from additional storm events conducted in 2022 to be included in analysis.

Water Quality

Since the previous report, water quality samples have been collected in the monitored sewersheds to capture stormwater pollutant concentrations and loads in the post-AI^2 phase. However, the limited sample size of data collected from Blenheim and Cooke-Glenmont in the post-AI^2 phase is not sufficient to draw statistically sound conclusions regarding water quality trends following the completion of Blueprint Columbus pillars. Summary statistics are presented in the Results section and data collected to-date are presented graphically in Appendix D; however, discussion of these results has been excluded from the main body of this report. Further, we have refrained from formulating conclusions about changes in water quality during the post-AI^2 phase for these sewersheds until additional data can be collected. Thus, at the time of this report, all trends observed during the post-AI^2 phase in Blenheim and Cooke-Glenmont are considered preliminary observations. It is expected that data collected during the 2022 monitoring campaign will bolster analysis and strengthen conclusions, which will be presented in the 2023 final report.

Nitrogen Species

Summary statistics of the concentrations and storm event loads of various nitrogen species present in samples collected during the 2016-2021 monitoring period are presented in Figure 33 through Figure 38 (Appendix D). ON made up 84-90% of TKN at each site while NO_3 was 27-39% of TN. Dissolved nitrogen species (i.e., TAN plus $NO_{2\text{-}3}$) made up 35-53% of TN.

The median TAN concentration at Cooke-Glenmont was significantly reduced by 86.5% following the installation of GI (Appendix D). At Indian Springs, a non-significant 50.0% reduction in median TAN concentration was observed between the pre- versus post-GSI phases; further, there was a significant 42.1% reduction of TAN between the pre-GSI and post-AI^2 phases (Appendix D). A significant reduction of 28.5% in TAN storm event loading was observed between pre-GSI and post-AI^2 phases at Indian Springs. Aerobic environments within bioretention media promote nitrification, where TAN is biologically oxidized to NO_2 and further oxidized to NO_3 (Hunt et al. 2012; Wang et al. 2017; Osman et al. 2019). Reductions in median TAN concentrations at Cooke-Glenmont in the post-GSI vs. pre-GSI phase (86.3%; $p<0.05$) support the occurrence of nitrification within bioretention at Cooke-Glenmont (Appendix D). A significant 28.5% decrease in TAN storm event loading at Indian Springs between the pre-GI and post-AI^2 phases is further evidence of nitrification with the installation of GI.

Nitrate loads significantly decreased by 12.8% between pre- and post-GSI phases in the Blenheim sewershed. Data from a number of studies summarized in the International Stormwater BMP Database (ISBMPD) support the occurrence of nitrification in individual bioretention cells, with the median NO_3 concentration increasing from 0.35 mg/L to 0.48 mg/L (Clary & Jones, 2016). Other sewershed-scale studies also demonstrated nitrification in GI, with TAN concentrations and storm event loads decreasing 19-71%, and concurrent NO_3 concentrations and storm event loads increasing by up to 100% (Bedan & Clausen, 2009; Page et al. 2015a). Beyond bioretention, permeable pavements also allow for nitrification due to the aerobic environment in the pavement subsurface (Collins et al. 2010; Tota-Maharaj & Scholz, 2010).

Table 16: Summary statistics for concentrations and storm event loads of nitrogen species between calibration (pre-GSI) and treatment phases (post-GSI and post-AI^2) at Blenheim, Cooke-Glenmont, and Indian Springs. Interpretations (Int.) based on ANCOVA analyses followed by post-hoc testing. Interpretations and statistical testing results are excluded for post-AI^2 data collected in Blenheim and Cooke-Glenmont due to low sample size.

	Pollutant	Site	Pre-GSI			Post-GSI						Post-AI^2					
			n	Con. Med.	Treat. Med.	n	Con. Med.	Treat. Med.	p-value	LSM % Diff.	Int.	n	Con. Med.	Treat. Med.	p-value	LSM % Diff.	Int.
Concentration (mg/L)	Nitrate	Blenheim	23	0.62	0.91	4	0.59	0.82	-	21.8	-	2	0.58	0.47	-	-	-
		Cooke-Glenmont	5	0.71	0.53	38	0.73	0.66	0.59	9.9	No sig. diff.	8	0.51	1.10	-	-	-
		Indian Springs	15	0.56	0.99	16	0.68	0.82	0.41	-22.7	No sig. diff.	35	0.52	1.00	0.54	-25.4	No sig. diff.
	Nitrite	Blenheim	22	0.04	0.03	4	0.03	0.01	-	-58.8	-	2	0.04	0.02	-	-	-
		Cooke-Glenmont	5	0.03	0.04	36	0.03	0.03	0.40	-15.1	No sig. diff.	8	0.02	0.02	-	-	-
		Indian Springs	13	0.04	0.04	16	0.03	0.02	0.32	-49.5	No sig. diff.	35	0.02	0.02	0.52	-59.6	No sig. diff.
	OrgN	Blenheim	37	0.89	0.88	4	0.89	0.83	-	-31.6	-	3	0.90	1.24	-	-	-
		Cooke-Glenmont	6	0.79	1.11	45	0.94	1.20	-	5.6	-	9	1.06	1.02	-	-	-
		Indian Springs	23	1.09	0.88	16	1.06	0.82	0.07	3.0	No sig. diff.	38	1.09	0.87	0.06	-5.5	No sig. diff.
	TAN	Blenheim	39	0.09	0.08	4	0.09	0.02	-	-75.7	-	3	0.09	0.06	-	-	-
		Cooke-Glenmont	6	0.56	0.59	48	0.09	0.09	0.01	-79.4	Pre-GSI > Post-GSI	9	0.06	0.03	-	-	-
		Indian Springs	24	0.09	0.15	17	0.08	0.07	0.13	-41.2	No sig. diff.	38	0.09	0.12	0.38	-40.1	No sig. diff.
	TKN	Blenheim	38	0.99	1.10	4	0.97	0.88	-	-35.5	-	3	1.04	1.30	-	-	-
		Cooke-Glenmont	6	0.81	1.59	47	1.00	1.20	0.25	-26.7	No sig. diff.	9	1.10	1.10	-	-	-
		Indian Springs	24	1.06	1.10	16	1.00	1.00	0.10	-14.8	No sig. diff.	38	1.20	0.97	0.05	-16.0	No sig. diff.
	TN	Blenheim	39	1.60	1.50	4	1.55	1.77	-	13.0	-	3	1.55	1.58	-	-	-
		Cooke-Glenmont	6	1.41	2.45	49	1.78	1.89	0.41	-12.3	No sig. diff.	9	1.44	2.32	-	-	-
		Indian Springs	24	1.75	1.89	18	1.80	1.81	0.10	-20.5	No sig. diff.	38	1.78	1.98	0.44	-10.5	No sig. diff.

Load (lb/ac)	Nitrate	Blenheim	19	0.020	0.041	3	0.012	0.023	0.02*	-12.8	Pre-GSI > Post-GSI	2	0.016	0.007	-	-	-
		Cooke-Glenmont	5	0.016	0.010	35	0.019	0.016	0.33	119.1	No sig. diff.	6	0.008	0.032	-	-	-
		Indian Springs	15	0.023	0.021	14	0.016	0.026	0.54	-3.0	No sig. diff.	28	0.010	0.020	0.63	-21.5	No sig. diff.
	Nitrite	Blenheim	19	0.001	0.001	3	0.001	0.001	0.97	-49.4	No sig. diff.	2	8.76E-04	1.42E-04	-	-	-
		Cooke-Glenmont	5	0.001	0.001	30	0.001	0.001	0.84	21.4	No sig. diff.	6	2.55E-04	3.11E-04	-	-	-
		Indian Springs	13	0.001	0.001	14	0.001	0.001	0.77	-48.0	No sig. diff.	27	3.48E-04	3.55E-04	0.98	-69.8	No sig. diff.
	OrgN	Blenheim	30	0.034	0.042	3	0.030	0.035	0.13	-22.4	No sig. diff.	3	0.032	0.017	-	-	-
		Cooke-Glenmont	5	0.005	0.020	42	0.030	0.039	-	126.2	-	6	0.011	0.036	-	-	-
		Indian Springs	19	0.031	0.030	14	0.032	0.044	0.83	0.7	No sig. diff.	30	0.024	0.029	0.38	-1.4	No sig. diff.
	TAN	Blenheim	32	0.004	0.005	3	0.003	0.001	0.34	-75.7	No sig. diff.	3	0.003	7.67E-04	-	-	-
		Cooke-Glenmont	5	0.015	0.007	44	0.003	0.002	0.17	-79.4	No sig. diff.	6	0.001	0.001	-	-	-
		Indian Springs	20	0.002	0.006	15	0.003	0.004	0.84	-19.9	No sig. diff.	30	0.002	0.004	0.03	-28.5	Pre-GSI > Post-AI[2]
	TKN	Blenheim	31	0.040	0.045	3	0.039	0.038	0.19	-21.7	No sig. diff.	3	0.040	0.017	-	-	-
		Cooke-Glenmont	5	0.006	0.034	44	0.034	0.042	0.85	34.5	No sig. diff.	6	0.012	0.038	-	-	-
		Indian Springs	20	0.033	0.048	14	0.034	0.050	0.85	-19.9	No sig. diff.	30	0.026	0.034	0.44	-18.0	No sig. diff.
	TN	Blenheim	32	0.050	0.062	3	0.047	0.062	0.19	3.1	No sig. diff.	3	0.049	0.027	-	-	-
		Cooke-Glenmont	5	0.034	0.044	47	0.049	0.049	0.52	43.3	No sig. diff.	6	0.019	0.073	-	-	-
		Indian Springs	20	0.051	0.078	16	0.052	0.082	0.85	-16.7	No sig. diff.	30	0.040	0.057	0.87	-24.3	No sig. diff.

*Normality of model residuals confirmed visually.

Effective removal of dissolved nitrogen forms, especially NO_3, is made difficult by the aerobic environment characteristic of many GI practices (Lopez-Ponnada et al. 2020; Muerdter et al. 2019). An internal water storage (IWS) zone or other restrictions to drainage is often needed to promote anaerobic conditions and subsequent denitrification in bioretention cells (Page et al. 2015a). Denitrification, the conversion of NO_3 to nitrogen gas, is a bacterially mediated process that occurs in bioretention media under anoxic conditions (Hsieh et al. 2007). Though minor, plant uptake can also serve as a NO_3 removal pathway (Collins, et al. 2010). NO_3 concentrations increased by 9.9% at Cooke-Glenmont between pre-GSI and post-GSI; however, this change was not statistically significant. NO_3 loads decreased between the pre-GSI and post-GSI (by 12.8%) at Blenheim, though this result was also not significant. Surprisingly large increases in NO_3 loads between the pre-GSI and post-GSI (by 119.1%, n=5) were observed at Cooke-Glenmont. However, these data are considered preliminary due to the very small number of storms sampled from the sewershed in the pre-GSI phase; statistical testing to investigate differences between pre-GSI and GI construction phases will be performed prior to the 2023 final report to determine if both datasets can be combined to bolster this analysis.

Non-significant reductions in NO_2 concentrations of 15.1-58.8% were observed in all sewersheds between pre- and post-GSI phases, and by 59.6% in Indian Springs between the pre-GSI and post-AI^2 phases. Non-significant reductions in NO_2 storm event loads were observed in the Blenheim and Indian Springs sewershed between the pre-GSI and post-GSI (by 48.0% and 49.4%, respectively) and between the pre-GSI and post-AI^2 phases (by 89.7%) in Indian Springs. Conversely, NO_2 loads increased by 21.4% between the pre-GSI and post-GSI phases in Cooke-Glenmont, though this was not statistically significant. Nitrite is often oxidized in the aerobic environment of bioretention and permeable pavement facilities. It is anticipated that nitrate-

nitrite uptake by the bioretention cells in Cooke-Glenmont will improve as the plant roots and microbial communities in these systems become more established (Hopkinson & Giblin, 2008).

TKN storm event loads increased non-significantly following the installation of GSI (by 34.5% compared to pre-GSI) in the Cooke-Glenmont sewershed. No significant changes in TKN loads were observed in other sewersheds. Similarly, no significant trends were observed for TKN concentrations between project phases for the treatment sewersheds. Median TKN effluent concentrations of 1.39 and 1.00 mg/L for single bioretention cells and permeable pavements were reported in the ISBMPD, respectively (Clary & Jones, 2016); thus, further TKN reduction beyond concentrations observed for post-GI phases herein (0.88-1.20 mg/L) is unlikely. Page et al. (2015a) reported TKN concentrations decreased by 62% to a post-construction EMC of 0.45 mg/L following the implementation of GI in a sewershed in Wilmington, NC. Given the level of imperviousness treated by GI (66.5-69.7%) and low influent EMCs observed herein, additional TKN removal by GI in the treatment sewersheds is unlikely.

Since OrgN comprised 84-90% of TKN, the magnitude of OrgN reductions were similar to those of TKN (Table 16). Non-significant OrgN concentration reductions were observed in Blenheim (31.6%) with the installation of GSI and in Indian Springs (5.5%) with the installation of additional infrastructure (Figure 17). Following the installation of GSI, OrgN concentrations increased by 5.6% and 3.0% (not significant) in the Cooke-Glenmont and Indian Springs sewersheds, respectively. OrgN storm event loads decreased between the pre-GSI and post-GSI (by 22.4%, not significant) phases in Blenheim. Median OrgN storm event loads in the Indian Springs sewershed decreased by 22.1% between the pre-GSI and post-GSI phases and by 29.7% between the pre-GSI and post-AI^2 phases. Particulate OrgN removal has been shown to occur in bioretention and permeable pavement primarily through sedimentation and filtration processes

(Li & Davis, 2014; Winston et al. 2016a). Additional data collected during the 2022 monitoring campaign are expected to bolster analysis of OrgN post-AI^2 trends.

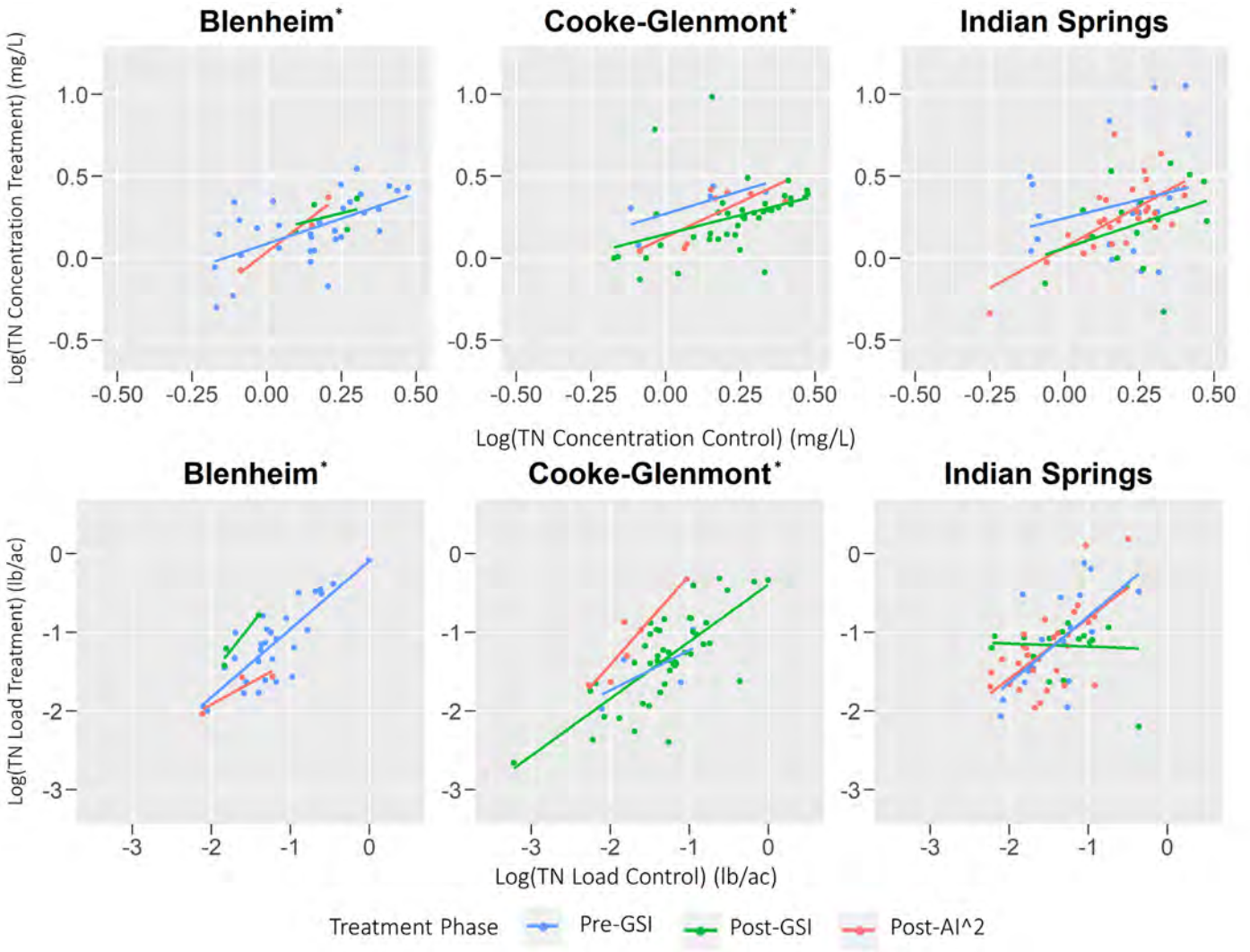


Figure 17: ANCOVA analysis for TN concentration and storm event load at all three treatment sites compared to the control (Beechwold) between calibration (pre-GSI) and treatment phases (post-GSI and post-AI^2) at Blenheim, Cooke-Glenmont, and Indian Springs. Data collected from Blenheim and Cooke-Glenmont during the post-AI^2 phase are considered preliminary at the time of this report due to low sample size. Conclusions about water quality trends in the sewersheds will be formulated following additional data collected in 2022 and will be presented in the final report.

No significant differences in TN concentration were observed in any treatment sewershed following the installation of GSI. TN reduction has been observed in bioretention, where median TN concentrations in the ISBMPD were reduced from 1.24 to 1.04 mg/L (Clary & Jones, 2016). Since median TN concentrations during the post-GSI phase (1.77, 1.89, 1.81 mg/L for Blenheim, Cooke-Glenmont, and Indian Springs, respectively) were higher than those reported in the ISBMPD, further TN reduction is possible, perhaps through the use of IWS zones, bioretention media amendments, or through additional bioretention implementation to treat a greater percentage of the sewersheds. Additional runoff volumes introduced to the sewershed through completion of additional infrastructure improvements (which may bypass GI) appeared to dampen TN reductions observed in the post-GSI phase, as non-significant increases in median TN concentrations at Indian Springs (10.5%) were observed in the post-AI^2 phase versus 20.5% in the post-GSI phase. Additional data collected during the 2022 monitoring campaign are expected to confirm this trend and bolster statistical analysis.

Phosphorus Species

Summary statistics of phosphorus species present in samples collected during the 2016-2021 monitoring period are presented in Table 17 and Figure 39 through Figure 41 (Appendix D). Sources of phosphorus in residential watersheds include erosion, which mobilizes phosphorus-rich sediments, atmospheric deposition, human and animal wastes, relic phosphorus in soil from fertilizers, and starter fertilizer (P was eliminated from commercially available lawn fertilizer in Ohio in 2013).

Table 17: Summary statistics for concentrations and storm event loads of phosphorus species (OP is orthophosphate, PBP is particle bound phosphorus, and TP is total phosphorus) between calibration (pre-GSI) and treatment phases (post-GSI and post-AI^2) at Blenheim, Cooke-Glenmont, and Indian Springs. Interpretations (Int.) based on ANCOVA analyses followed by post-hoc testing. Interpretations and statistical testing results are excluded for post-AI^2 data collected in Blenheim and Cooke-Glenmont due to low sample size.

			Pre-GSI			Post-GSI						Post-AI^2					
	Pollutant	Site	n	Con. Med.	Treat. Med.	n	Con. Med.	Treat. Med.	p-value	LSM % Diff.	Int.	n	Con. Med.	Treat. Med.	p-value	LSM % Diff.	Int.
Concentration (mg/L)	OP	Blenheim	21	0.11	0.13	4	0.11	0.13	-	19.9	-	3	0.11	0.14	-	-	-
		Cooke-Glenmont	5	0.14	0.16	33	0.11	0.12	0.01	-33.6	Pre-GSI > Post-GSI	9	0.10	0.14	-	-	-
		Indian Springs	15	0.12	0.09	15	0.12	0.07	0.06	-23.7	No. sig. diff.	30	0.11	0.05	1.65E-05	-40.8	Pre-GSI > Post-AI^2
	PBP	Blenheim	32	0.16	0.15	3	0.15	0.05	-	-75.2	-	3	0.16	0.19	-	-	-
		Cooke-Glenmont	6	0.21	0.23	46	0.16	0.21	0.03	-19.7	Pre-GSI > Post-GSI	8	0.18	0.13	-	-	-
		Indian Springs	23	0.16	0.12	15	0.15	0.07	0.93	-63.0	No. sig. diff.	35	0.16	0.10	0.01	-48.0	Pre-GSI > Post-AI^2
	TP	Blenheim	39	0.17	0.18	4	0.20	0.15	-	-28.0	-	3	0.20	0.33	-	-	-
		Cooke-Glenmont	6	0.28	0.38	51	0.21	0.25	0.003	-28.2	Pre-GSI > Post-GSI	9	0.27	0.22	-	-	-
		Indian Springs	25	0.24	0.17	18	0.25	0.11	0.06	-42.9	No. sig. diff.	38	0.24	0.10	4.77E-04	-49.1	Pre-GSI > Post- AI^2
Load (lb/ac)	OP	Blenheim	17	0.002	0.004	3	0.002	0.007	0.11	-12.9	No. sig. diff.	3	0.002	0.001	-	-	-
		Cooke-Glenmont	5	0.003	0.003	30	0.003	0.002	0.95	25.4	No. sig. diff.	9	0.002	0.004	-	-	-
		Indian Springs	15	0.002	0.004	13	0.002	0.002	0.10	-30.1	No. sig. diff.	25	0.002	0.002	0.06	-34.9	No. sig. diff.
	PBP	Blenheim	27	0.005	0.006	3	0.004	0.002	0.14	-72.8	No. sig. diff.	3	0.005	0.003	-	-	-
		Cooke-Glenmont	5	0.011	0.004	44	0.005	0.005	0.28	14.4	No. sig. diff.	6	0.001	0.004	-	-	-
		Indian Springs	18	0.006	0.007	13	0.004	0.006	0.62	-31.4	No. sig. diff.	27	0.003	0.003	0.12	-22.4	No. sig. diff.
	TP	Blenheim	32	0.005	0.008	3	0.005	0.008	0.24	-15.5	No. sig. diff.	3	0.005	0.004	-	-	-
		Cooke-Glenmont	5	0.007	0.009	48	0.006	0.007	0.40	35.8	No. sig. diff.	6	0.004	0.006	-	-	-
		Indian Springs	20	0.007	0.007	16	0.007	0.009	0.51	-25.7	No. sig. diff.	30	0.005	0.004	0.21	-38.3	No. sig. diff.

*Normality of model residuals confirmed visually.

Orthophosphate (OP), the most biologically available form of phosphorus that causes eutrophication in natural water bodies (Correll 1998), accounted for 22-94% of TP in samples from each sewershed. Although not significant, OP median storm event loads decreased by 82.0% at Blenheim, 4.3% at Cooke-Glenmont, and 53.4% at Indian Springs with the installation of GSI (Table 17, Appendix D – Figure 39). Following completion of additional infrastructure installation, OP event loads decreased by 34.9% at Indian Springs (not significant).

OP concentrations decreased significantly at Cooke-Glenmont by 33.6% and non-significantly at Indian Springs by 23.7% following GI installations. Following completion of additional infrastructure installation, OP concentrations decreased at Indian Springs by 40.8% ($p<0.01$) compared with pre-GSI conditions (Appendix D). Studies documented in the ISBMPD generally report increases of OP within bioretention, with median influent and effluent concentrations of 0.02 to 0.27 mg/L, respectively (Clary & Jones, 2016). Phosphorus export has also been observed in bioretention column studies (Bratieres et al. 2008; Palmer et al. 2013) and field-scale studies of street-side bioretention (Chapman & Horner, 2010) in urban areas and has been tied to leaching from organic matter, typically from compost used in bioretention media mixes (Hurley et al. 2017; Tirpak et al. 2021). OP concentration increases have also been attributed to lawn clippings and decomposition of organic matter in bioretention (Passeport et al. 2009). Leaching of organic matter from bioretention media would be expected to decrease over time, which may explain why reductions were observed in the sewershed with older bioretention cells (i.e., Indian Springs; 40.8% reduction, $p<0.0001$) in the post-AI^2 phase (Appendix D).

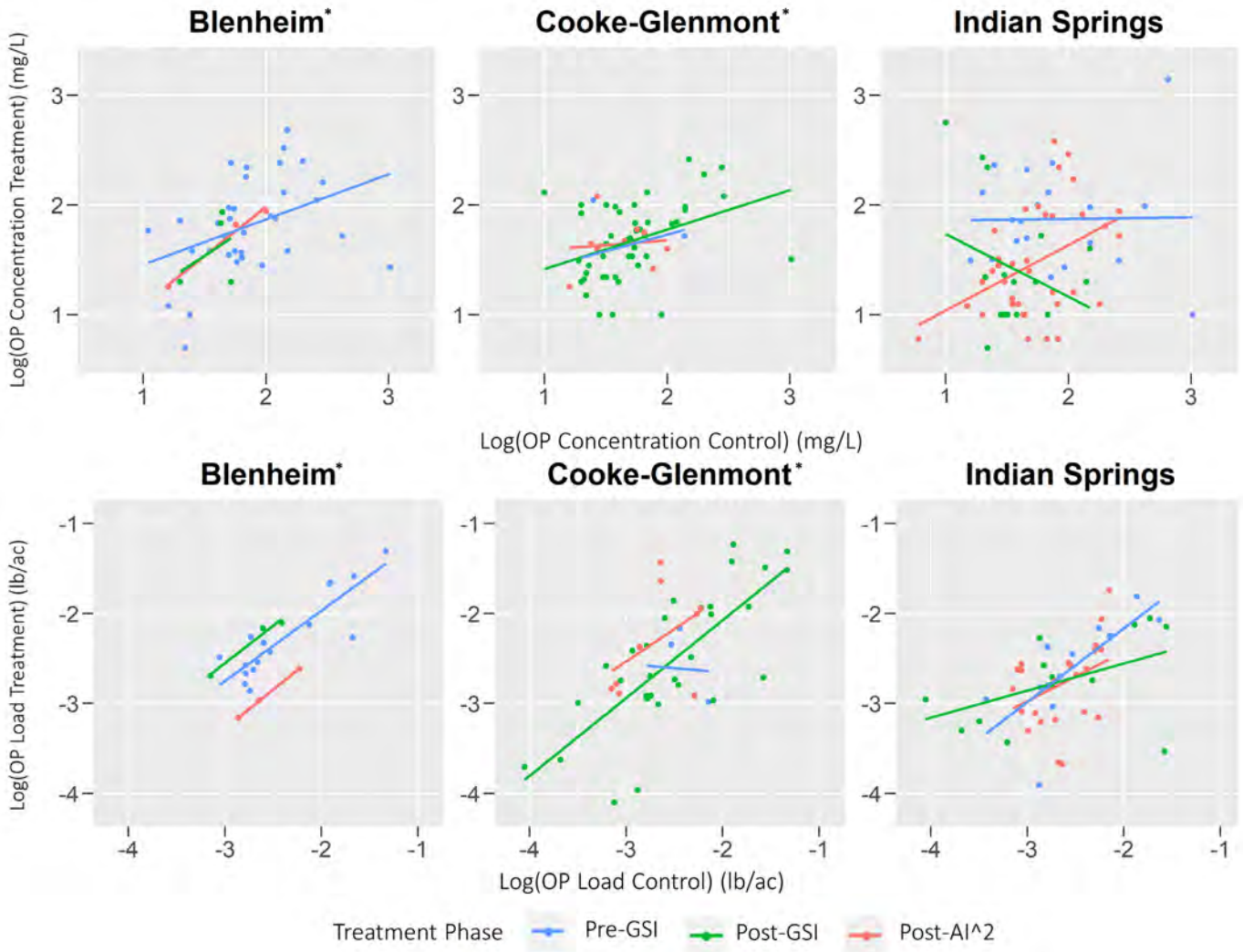


Figure 18: ANCOVA analysis for OP concentration and storm event load at all three treatment sites compared to the control (Beechwold) between calibration (pre-GSI) and treatment phases (post-GSI and post-AI^2) at Blenheim, Cooke-Glenmont, and Indian Springs. Data collected from Blenheim and Cooke-Glenmont during the post-AI^2 phase are considered preliminary at the time of this report due to low sample size. Conclusions about water quality trends in the sewersheds will be formulated following additional data collected in 2022 and will be presented in the final report.

Median PBP concentrations were significantly reduced by 10.7% between the pre-GSI and the post-GSI phase at Cooke-Glenmont, and by 16.7% between the pre-GSI and the post-AI^2 phase at Indian Springs (Appendix D). Median PBP loads decreased (non-significantly) in Blenheim (by 67.3%) and Indian Springs (by 25.5%) following GSI implementation. Observed PBP reductions in the treatment sewersheds were attributed to sedimentation, filtration, and volume reduction within the bioretention cells and permeable pavements (Roy-Poirier et al. 2010; Winston et al. 2016a; Tirpak et al. 2020).

The median TP concentration significantly decreased by 44.4% following the installation of GSI at Cooke-Glenmont (Appendix D). Similarly, TP concentrations fell by 49.1% ($p<0.001$) in the post-AI^2 phase in Indian Springs. While not significant, the median TP storm event load was reduced in the post-GSI phase for all treatment sewersheds. Previous residential and commercial GSI studies demonstrated TP concentration and load reductions in the range of 29-72% (Line et al. 2012; Page et al. 2015a). Aside from load in Cooke-Glenmont, reductions in both TP load (15.5-25.7%) and concentration (28.0-42.9%) were observed in the post-GSI phase in all treatment sewersheds. Reductions observed herein were likely due to a combination of adsorption of dissolved phosphorus and sedimentation of particulate phosphorus in bioretention (Hsieh & Davis, 2005; Roy-Poirier et al. 2010a).

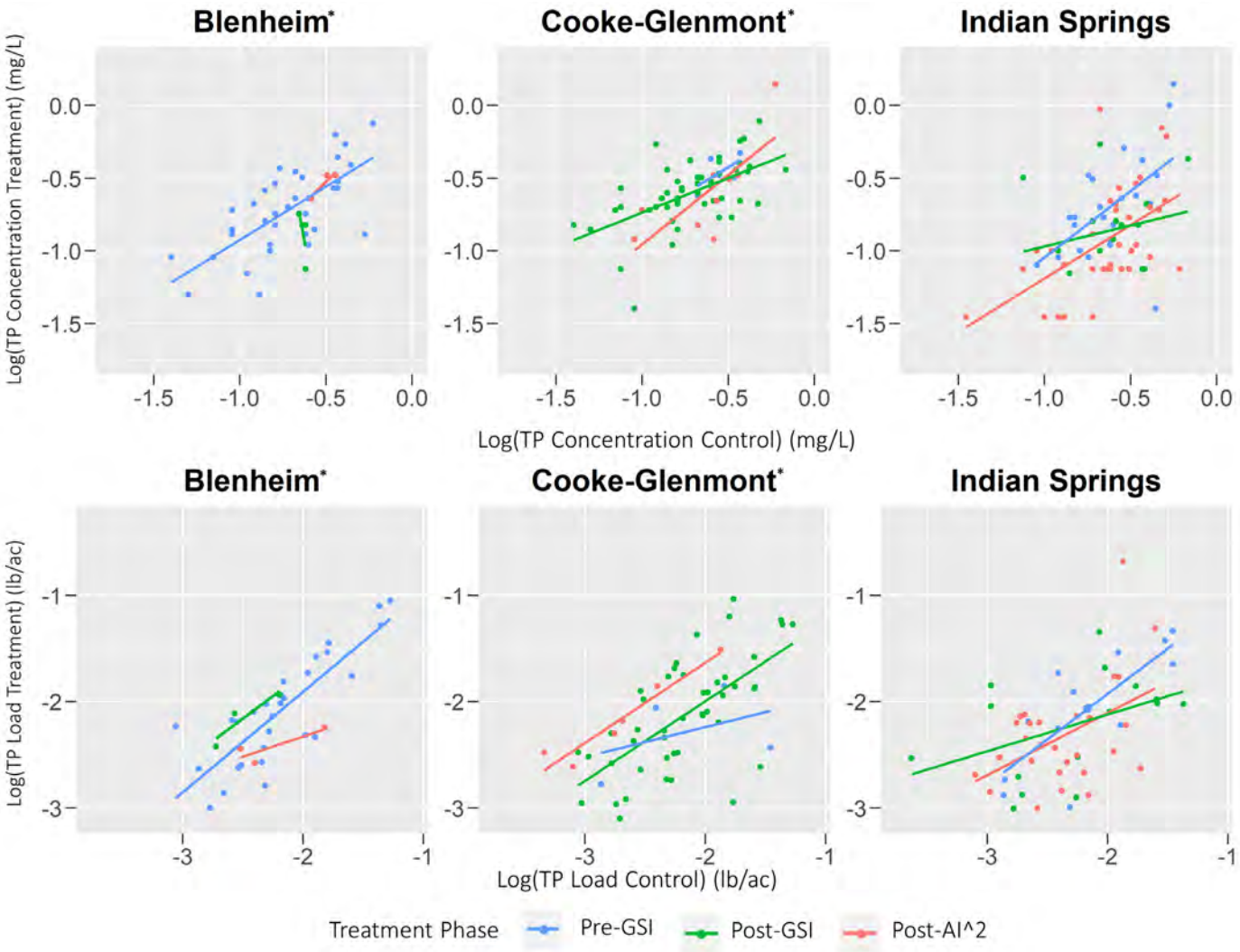


Figure 19: ANCOVA analysis for TP concentration and storm event load at all three treatment sites compared to the control (Beechwold) between calibration (pre-GSI) and treatment phases (post-GSI and post-AI^2) at Blenheim, Cooke-Glenmont, and Indian Springs. Data collected from Blenheim and Cooke-Glenmont during the post-AI^2 phase are considered preliminary at the time of this report due to low sample size. Conclusions about water quality trends in the sewersheds will be formulated following additional data collected in 2022 and will be presented in the final report.

Total Suspended Solids

Summary statistics for TSS concentrations and loads collected during the 2016-2021 monitoring period are presented in Table 18 and Figure 42 (Appendix D). Median TSS concentrations in Cooke-Glenmont between the pre-GSI and post-GSI phases and the pre-GSI and post-AI^2 phases decreased by 54.6% and 63.6%, respectively (Appendix D). TSS loads increased in Cooke-Glenmont between the pre-GSI and post-GSI phases by 25.0% (p<0.01).

Table 18: Summary statistics for concentrations and storm event loads of TSS between calibration (pre-GSI) and treatment phases (post-GSI and post-AI^2) at Blenheim, Cooke-Glenmont, and Indian Springs. Interpretations (Int.) based on ANCOVA analyses followed by post-hoc testing. Interpretations and statistical testing results are excluded for post-AI^2 data collected in Blenheim and Cooke-Glenmont due to low sample size.

	Pollutant	Site	Pre-GSI			Post-GSI					Post-AI^2					
			n	Con. Med.	Treat. Med.	n	Con. Med.	Treat. Med.	p-value	LSM % Diff.	Int.	n	Con. Med.	Treat. Med.	p-value	LSM % Diff.	Int.
Concentration (mg/L)	TSS	Blenheim	35	56.99	58.00	4	52.00	36.88	0.14	-39.7	No. sig. diff.	3	57.00	66.00	-	-	-
		Cooke-Glenmont	5	20.00	52.00	50	41.00	46.48	0.80	20.6	No. sig. diff.	9	27.00	44.00	-	-	-
		Indian Springs	29	56.00	71.00	18	43.43	20.00	0.01	-65.9	Pre-GSI > Post-GSI^2	38	56.00	25.00	0.97	-63.0	No. sig. diff.
Load (lb/ac)	TSS	Blenheim	29	1.87	3.80	3	1.73	3.70	0.09	-36.1	No. sig. diff.	3	1.85	0.76	-	-	-
		Cooke-Glenmont	3	0.52	0.85	47	1.41	1.44	0.01*	25.00	Post-GSI > Pre-GSI	6	0.39	1.80	-	-	-
		Indian Springs	16	1.87	2.61	16	1.58	1.28	0.40	-61.4	No. sig. diff.	50	1.20	0.67	0.76	-56.3	No. sig. diff.

*Normality of model residuals confirmed visually.

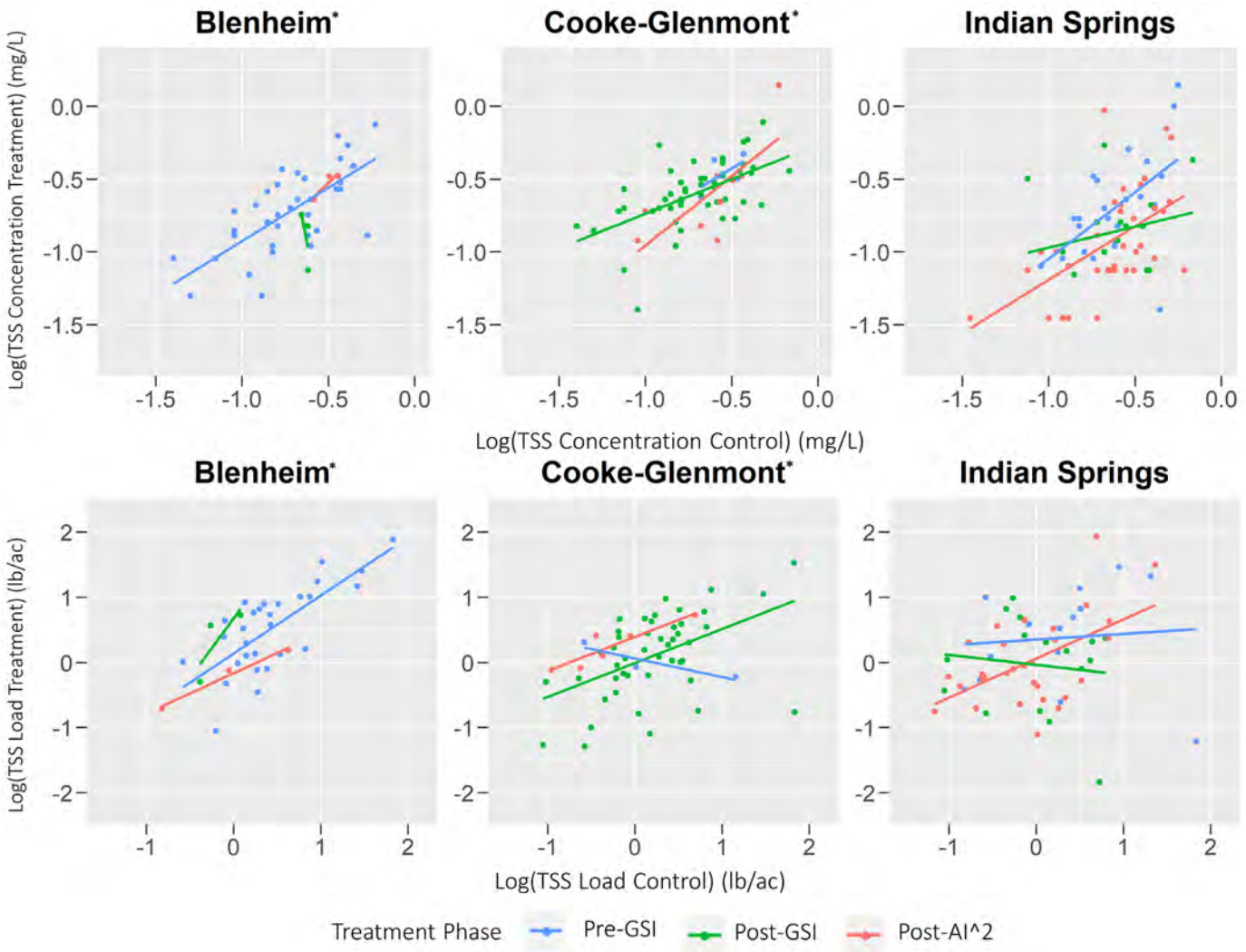


Figure 20: ANCOVA analysis for TSS concentration and storm event load at all three treatment sites compared to the control (Beechwold) between calibration (pre-GSI) and treatment phases (post-GSI and post-AI^2) at Blenheim, Cooke-Glenmont, and Indian Springs. Data collected from Blenheim and Cooke-Glenmont during the post-AI^2 phase are considered preliminary at the time of this report due to low sample size. Conclusions about water quality trends in the sewersheds will be formulated following additional data collected in 2022 and will be presented in the final report.

In this study, reductions in TSS concentrations closely paralleled the sewershed imperviousness treated by GSI. TSS concentrations decreased 65.9% between the pre- and post-GSI phases at Indian Springs, where 69.7% of the impervious area in the sewershed was treated by GSI. Median TSS concentrations decreased from 67 to 20 mg/L and storm event TSS loads decreased by 61.4% with the installation of GSI in the Indian Springs sewershed (Appendix D, Figure 18). Median TSS concentrations during the post-GSI phase at both treatment sewersheds (50 and 20 mg/L for Cooke-Glenmont and Indian Springs, respectively) were larger than or similar to those reported by the ISBMPD for effluent from single bioretention cells and permeable pavements (10.0 and 26.0, respectively; Clary & Jones, 2016). This implies further TSS reduction may be possible through greater GSI implementation targeting treatment of a greater percentage of the sewersheds, though the 20% TSS reduction goal that the City of Columbus set has been easily exceeded (Appendix D).

Bioretention cells effectively decrease TSS concentrations through sedimentation and filtration, at times by several orders of magnitude (Trowsdale & Simcock, 2011). In addition to bioretention, permeable pavement at Indian Springs contributed to the decrease in TSS concentration through filtration (Brown et al. 2009). Other residential and commercial GI studies reported significant differences in TSS concentration; Page et al. (2015) reported an 82% decrease in TSS, from 54 to 7 mg/L, and Line et al. (2012) reported a 97% decrease, from 244 to 8 mg/L. Coupled with previous research, the data presented herein support the conclusion that the percent TSS concentration reduction in residential sewersheds is similar to the percent of the sewershed imperviousness treated by GI (within a margin of 5%). This information is valuable to engineers and regulators as they try to meet local TSS concentration regulations.

Heavy Metals

Summary statistics of the concentrations of heavy metals present in samples collected during the 2016-2021 monitoring period are presented in Table 19 and Figure 51 through Figure 56 (Appendix D). Percent heavy metal concentration and storm event load reductions with the installation of GSI in the treatment sewersheds followed the order: Cd > Pb > Zn > Cu > Cr > Ni. Significant decreases of Pb (25.9%) and Zn (33.7%) concentrations were observed in Cooke-Glenmont following the construction of GSI, while a significant increase in Cr (32.2%) was observed under the same conditions (Table 19); however, no significance was detected between pre-GSI and post-GSI phases for heavy metal storm event loads. Further, none of the changes in heavy metal storm event loadings or concentrations were significant for following the completion of additional infrastructure in Indian Springs. At Blenheim, the median concentration of Zn, Pb, Cu, and Cd decreased by 17.0%, 39.1%, 10.8%, and 33.3%, respectively, while median Cr and Ni concentrations increased (by 30.0% and 26.4%, respectively) following the installation of GI (Appendix D).

Loads at Cooke-Glenmont significantly increased for Pb (by 31.6%), Ni (100.1%), and Cr (by 174.5%) in the post-GSI phase. However, these data are considered preliminary due to the very small number of storms sampled from the sewershed in the pre-GSI phase; statistical testing to investigate differences between pre-GSI and GI construction phases will be performed prior to the 2023 final report to determine if both datasets can be combined to bolster this analysis. At Indian Springs, median concentrations and loads of all heavy metals decreased (though not significantly) between the pre-GSI phase for both post-GSI (load: 3.3-70.2%, concentration: 21.7-65.2%) and post-AI^2 phases (load: 26.9-69.2%, concentration: 5.3-41.3%) except for post-AI^2, where a significant increase of Pb (43.4%) load was observed.

Table 19: Summary statistics for concentrations and storm event loads of heavy metals between calibration (pre-GSI) and treatment phases (post-GSI and post-AI[2]) at Blenheim, Cooke-Glenmont, and Indian Springs. Interpretations (Int.) based on ANCOVA analyses followed by post-hoc testing. Interpretations and statistical testing results are excluded for post-AI[2] data collected in Blenheim and Cooke-Glenmont due to low sample size.

	Pollutant	Site	Pre-GSI			Post-GSI						Post-AI[2]					
			n	Con. Med.	Treat. Med.	n	Con. Med.	Treat. Med.	p-value	LSM % Diff.	Int.	n	Con. Med.	Treat. Med.	p-value	LSM % Diff.	Int.
Concentration (mg/L)	Cd	Blenheim	39	0.09	0.08	3	0.08	0.06	-	-41.1	-	3	0.08	0.06	-	-	-
		Cooke-Glenmont	6	0.08	0.18	51	0.07	0.08	0.12	-57.0	No sig. diff.	9	0.07	0.07	-	-	-
		Indian Springs	23	0.11	0.12	18	0.09	0.04	0.69	-71.0	No sig. diff.	38	0.08	0.07	0.06	-45.6	No sig. diff.
	Cr	Blenheim	39	3.80	3.00	4	3.90	3.60	-	-10.4	-	3	3.65	1.50	-	-	-
		Cooke-Glenmont	6	3.90	1.45	51	3.60	1.80	1.28E-07	32.2	Post-GSI > Pre-GSI	9	3.00	1.80	-	-	-
		Indian Springs	23	3.40	2.30	18	3.00	1.85	0.87	-23.6	No sig. diff.	38	3.00	1.50	0.07	-38.8	No sig. diff.
	Cu	Blenheim	39	11.10	10.20	4	10.50	8.49	-	-40.8	-	3	10.50	10.30	-	-	-
		Cooke-Glenmont	6	8.60	9.45	51	8.60	9.80	0.20	7.4	No sig. diff.	9	8.40	8.70	-	-	-
		Indian Springs	23	12.20	10.60	18	10.00	6.84	0.25	-35.1	No sig. diff.	38	10.10	9.10	0.10	-25.7	No sig. diff.
	Ni	Blenheim	39	2.40	3.50	4	2.30	4.47	-	8.8	-	3	2.40	2.50	-	-	-
		Cooke-Glenmont	6	2.00	5.30	51	2.40	4.90	0.90	1.1	No sig. diff.	9	2.40	7.40	-	-	-
		Indian Springs	23	2.50	3.80	18	2.60	2.65	0.59	-14.1	No sig. diff.	38	2.60	3.45	0.31	0.9	No sig. diff.
	Pb	Blenheim	39	5.80	7.30	4	5.05	4.74	-	-63.4	-	3	5.75	7.40	-	-	-
		Cooke-Glenmont	6	4.60	6.69	51	4.90	4.00	0.01	-25.9	Pre-GSI > Post-GSI	9	5.40	4.80	-	-	-
		Indian Springs	23	6.00	4.60	18	4.90	2.25	0.45	-57.2	No sig. diff.	38	5.40	2.65	0.23	-50.7	No sig. diff.
	Zn	Blenheim	39	61.80	50.00	4	60.64	40.86	-	-50.4	-	3	60.64	40.10	-	-	-
		Cooke-Glenmont	6	56.20	57.40	51	43.30	33.10	0.004	-33.7	Pre-GSI > Post-GSI	9	55.30	34.50	-	-	-
		Indian Springs	23	68.40	51.20	18	55.75	24.50	0.92	-44.6	No sig. diff.	38	62.10	40.08	0.07	-27.6	No sig. diff.
Load (lb/ac)	Cd	Blenheim	29	2.1E-06	4.2E-06	2	1.9E-06	2.3E-06	-	-50.0	-	3	2.0E-06	1.1E-06	-	-	-
		Cooke-Glenmont	5	1.9E-06	4.7E-06	45	2.1E-06	1.8E-06	0.69	-10.9	No sig. diff.	6	6.8E-07	2.5E-06	-	-	-
		Indian Springs	18	3.5E-06	3.1E-06	16	2.0E-06	1.7E-06	0.90	-61.3	No sig. diff.	30	1.5E-06	1.7E-06	0.07	-36.2	No sig. diff.

Cr	Blenheim	32	1.2E-04	1.2E-04	3	1.2E-04	2.3E-04	0.28	22.9	No sig. diff.	3	1.1E-04	2.6E-05	-	-	-
	Cooke-Glenmont	5	9.4E-05	3.9E-05	48	1.2E-04	5.9E-05	4.09E-05	174.5	Post-GSI > Pre-GSI	6	3.0E-05	7.8E-05	-	-	-
	Indian Springs	18	7.2E-05	8.9E-05	16	6.9E-05	1.0E-04	0.73	-8.6	No sig. diff.	30	5.6E-05	3.8E-05	0.38	-40.2	No sig. diff.
Cu	Blenheim	32	3.0E-04	4.8E-04	3	2.7E-04	4.8E-04	0.26	-16.6	No sig. diff.	3	2.8E-04	1.3E-04	-	-	-
	Cooke-Glenmont	5	1.9E-04	1.8E-04	48	3.0E-04	3.0E-04	0.79	119.6	No sig. diff.	6	8.2E-05	2.9E-04	-	-	-
	Indian Springs	18	3.8E-04	4.2E-04	16	2.7E-04	4.6E-04	0.53	-21.3	No sig. diff.	30	2.2E-04	2.7E-04	0.002	-26.9	Pre-GSI > Post-AI[2]
Ni	Blenheim	32	7.4E-05	1.8E-04	3	6.3E-05	2.3E-04	0.26	10.9	No sig. diff.	3	6.8E-05	4.0E-05	-	-	-
	Cooke-Glenmont	5	4.6E-05	1.4E-04	48	7.9E-05	1.6E-04	0.000	100.1	Post-GSI > Pre-GSI	6	2.3E-05	2.3E-04	-	-	-
	Indian Springs	18	8.1E-05	1.4E-04	16	6.3E-05	1.4E-04	0.79	2.2	No sig. diff.	30	5.1E-05	1.1E-04	0.31	-1.5	No sig. diff.
Pb	Blenheim	32	2.0E-04	4.0E-04	3	1.9E-04	2.2E-04	0.14	-44.4	No sig. diff.	3	2.0E-04	1.1E-04	-	-	-
	Cooke-Glenmont	5	1.2E-04	1.2E-04	48	1.9E-04	1.3E-04	0.03	31.6	Post-GSI > Pre-GSI	6	4.0E-05	1.4E-04	-	-	-
	Indian Springs	18	1.8E-04	1.4E-04	16	1.7E-04	1.2E-04	0.55	-50.5	No sig. diff.	30	1.2E-04	6.7E-05	0.01	-43.4	Pre-GSI > Post-AI[2]
Zn	Blenheim	32	1.4E-03	1.9E-03	3	1.4E-03	9.9E-04	0.55	-58.7	No sig. diff.	3	1.4E-03	6.3E-04	-	-	-
	Cooke-Glenmont	5	1.7E-03	1.3E-03	48	1.3E-03	1.1E-03	0.06	23.4	No sig. diff.	6	9.6E-04	9.4E-04	-	-	-
	Indian Springs	18	1.9E-03	1.9E-03	16	1.4E-03	1.9E-03	0.93	-32.5	No sig. diff.	30	1.2E-03	1.1E-03	0.26	-22.6	No sig. diff.

*Normality of model residuals confirmed visually.

Heavy metals are present in dissolved, colloidal, and particulate forms (Guéguen & Dominik, 2003). In urban stormwater runoff, Pb and Cr are highly particulate bound, while Ni is related to particles and organic matter. Zn can adsorb to sediment and colloids in stormwater but is mostly associated with dissolved solids, whereas Cd and Cu are largely related to dissolved solids and colloidal materials (Makepeace et al. 1995; Maniquiz-Redillas & Kim, 2016). Birch and Rochford (2010) found that heavy metals in stormwater are primarily particulate bound, ranking their affinity for particulate form as: Pb>Zn>Cu>Cr>Cd>Ni. In urban areas, street runoff demonstrated the highest percentage of the heavy metals Cd, Cu, Pb, and Zn in the particulate form (72-97%), followed by yard (71-95%) and roof runoff (9-87%; Gromaire-Mertz et al. 1999). Since heavy metals are highly particulate-bound, it has been suggested that indirect metal pollutant load can be deduced from TSS measurements in some cases (Hallberg et al. 2007). In the cases of heavy metal analytes studied herein, Cd and Pb concentration reductions following the installation of GSI and completion of additional infrastructure improvements trended closely with TSS reductions (Table 18; Table 19). Like TSS, the percent Cd concentration reduction in treatment sewersheds was similar to the trend of the sewershed imperviousness treated by GSI, but less so than previous iterations of this report when the GSI was more recently installed.

Pb concentrations and loads significantly decreased (by 25.9% and 31.6%, respectively at Cooke-Glenmont with the installation of GSI (Table 19). Again, these data are considered preliminary due to the very small number of storms sampled from the sewershed in the pre-GSI phase; statistical testing to investigate differences between pre-GSI and GSI construction phases will be performed prior to the 2023 final report to determine if both datasets can be combined to bolster this analysis. Pb event loads decreased in the post-AI^2 phase in Indian Springs by 43.4% ($p<0.001$). Substantial, though not significant, reductions in median Pb concentrations were

observed at Blenheim and Indian Springs after the installation of GSI (by 39.1% and 60.9%, respectively) and additional infrastructure (by 41.3%) in Indian Springs (Appendix D). Substantial Pb EMC reductions were also reported by the ISBMPD, where 89.9% and 83.0% reductions were observed as runoff passed through bioretention and permeable pavement, respectively (Clary & Jones, 2016).

Given 23.6-30.1% of the sewershed area and 66.5-69.7% of the sewershed imperviousness was treated by GSI at Cooke-Glenmont and Indian Springs, respectively, and median Pb EMCs were reduced by approximately 41.3-60.9%, substantial Pb removal via sedimentation must have occurred in GSI. This is feasible due to the high affinity of Pb to bind to particulates compared to other metals studied herein (e.g., 95 and 97% particulate bound in roof and yard runoff, respectively; Birch & Rochford, 2010; Gromaire-Mertz et al. 1999). Other studies of residential GSI demonstrated significant, 67-89% Pb EMC reductions with the installation of GSI (Bedan & Clausen 2009; Page et al. 2015a). Laboratory bioretention studies demonstrated 95-97% Pb EMC reductions (Hsieh & Davis, 2005; Sun & Davis, 2007). Past permeable pavement studies demonstrated 79-92% reductions in Pb EMCs (Braswell, Winston, & Hunt, 2018; Scholz & Grabowiecki, 2007). This implies high rates of Pb removal were consistent across various settings and types of GSI.

Non-significant reductions of Cd for median storm event loads and concentrations were observed in all sewersheds and phases. Median Cd concentrations were reduced by 33.3% at Blenheim with the implementation of GSI (Appendix D). Median Cd EMCs during the post-GSI phase of 0.06, 0.08, 0.04 µg/L for Blenheim, Cooke-Glenmont, and Indian Springs, respectively, were similar to the 0.07 µg/L reported by the ISBMPD for effluent from a single bioretention cell (Clary & Jones, 2016), thus perhaps approaching an irreducible concentration. As observed

in Blenheim, data summarized in the ISBMPD also indicates non-significant reductions in total Cd EMCs from both permeable pavements and bioretention cells. Among all heavy metals, median Cd EMCs were most similar to the detection limit of 0.013 µg/L, where 16.2% of samples were below the detection limit at Indian Springs. This may be due to the residential land use of the sewersheds, where major sources of Cd would be limited except to intersections where brake wear, and thus hotspots of Cd deposition, occur (McKenzie et al. 2009; Singh et al. 2011).

Cd EMCs and loads in these sewersheds exhibited the highest percent removal efficiency of all heavy metals examined herein. A laboratory bioretention evaluation reported Cd exhibiting the highest percentage removal efficiency (>95-98%) among heavy metal analytes studied (of Cd, Pb, and Zn; Sun & Davis, 2007). Another bioretention laboratory study using various types of soil media reported 90-99% Cd removal efficiencies (Wang et al. 2016). This study found that filtration was the primary removal mechanism, as much of accumulation occurred in the surface layer. Cd has a moderate affinity for suspended solids and is found in dissolved and colloidal state in urban stormwater runoff (Makepeace et al. 1995; Maniquiz-Redillas & Kim, 2016; Prestes et al. 2006). Bioretention media has a high cation exchange capacity, and Cd species present in stormwater runoff have high binding and sorption affinities (Loganathan et al. 2012; Muthanna et al. 2007). This means Cd readily binds to clay, silt, and organic matter particles within GI, facilitating its removal from runoff (Naidu et al. 1997).

Median Zn EMCs were reduced by 17.0% (not significant) between the pre-GSI and post-GSI phases at Blenheim and by 52.7% at Indian Springs (Appendix D). Median concentrations were reduced by 18.6% in the post-AI^2 phase at Indian Springs (Appendix D). Zn concentrations were significantly reduced at Cooke-Glenmont in the post-GSI phase by 33.7% compared to the pre-GSI phase. However, these data are considered preliminary due to the very small number of

storms sampled from the sewershed in the pre-GSI phase; statistical testing to investigate differences between pre-GSI and GI construction phases will be performed prior to the 2023 final report to determine if both datasets can be combined to bolster this analysis.

Compared to these sewershed-scale results, studies of single bioretention cells and permeable pavements summarized in the ISBMPD indicate median reductions in Zn EMCs of 75.9 and 75.6%, respectively (Clary & Jones, 2016). This disparity with single practices is likely due to the percent of the watershed treated. At Cooke-Glenmont and Indian Springs, only 30.1 and 23.1% of the sewershed, and 66.5 and 69.7% of the sewershed imperviousness, respectively, was treated by GSI. Non-treated areas of the sewershed may act as a source of Zn, which is generated from galvanized roofs, gutters, plumbing, and automobile traffic (Brown & Peake, 2006; Müller et al. 2020; Singh et al. 2011). Other residential studies reported Zn EMC reductions (76-77%) if a larger percentage of the watershed was treated by GI (up to 91%; Page et al. 2015a; Bedan & Clausen 2009). Another plausible explanation for these results is the nature of Zn in urban runoff. While Zn can be particulate-bound, it is largely related to dissolved solids in stormwater (Makepeace et al. 1995). Compared with Pb and Cu, Zn has the lowest competitive metal sorption (Gülbaz et al. 2015; Jalali & Moradi, 2013). A combination of sewershed and Zn characteristics likely contributed to the lack of significance in Zn reductions between the project phases.

Though reductions were not significant, median Cu EMCs in the post-GSI phase were reduced in every sewershed (0.5-30.0%) (Appendix D). These post-GSI values were mostly similar to the 38.0% and 35.8% reductions in median Cu EMCs reported in the ISBMPD for single bioretention cells and permeable pavements, respectively (Clary & Jones, 2016). Increased stormwater volumes in the post-AI^2 phase potentially reduced the magnitude of the Cu median

reduction in Indian Springs. Cu in stormwater runoff is preferentially bound to particulate matter to a greater extent than Cd and Cr, demonstrating a moderate (48%) affinity for TSS (Birch & Rochford, 2010; Prestes et al. 2006). Results from this study confirmed this behavior, as Cu concentration and loading trended with TSS concentrations and loads. Dissolved Cu in stormwater has been shown to have the highest competitive sorption among the heavy metals discussed herein (Jalali & Moradi, 2013). Other residential studies also credited high Cu reductions to both sorption and sedimentation in GSI (Page et al. 2015a; J. Wang et al. 2017). Meanwhile, other studies demonstrated 31-62% Cu EMC reductions with the installation of GSI (H. Li & Davis, 2009; Page et al. 2015a). These reductions were comparable to the results presented herein, meaning GSI is capable of treating Cu EMCs in large sewersheds (>10 ha). Given only 22% of Indian Springs was treated by GSI, and that laboratory bioretention studies reported Cu EMC reductions in the range of 87-98% (Davis et al. 2001; Sun & Davis, 2007), excellent Cu removal occurred for the density of GSI installed in this sewershed.

Median Cr EMCs of 1.5 and 1.8 µg/L, respectively, were observed in the Cooke-Glenmont sewershed during the pre-GSI and post-GSI phases, respectively (Table 19). Likewise, median Cr EMCs of 2.3, 1.8, and 1.6 µg/L were observed in the Indian Springs sewershed during the pre-GSI, post-GSI, and post-AI^2 phases, respectively. These EMCs were all less than the median effluent Cr EMCs for bioretention (2.50 µg/L) and permeable pavement (4.28 µg/L) reported in the ISBMPD (Clary & Jones, 2016). Following the installation of GSI, Cooke-Glenmont Cr load substantially increased (174.5%), and though changes were not significant. However, these data are considered preliminary due to the very small number of storms sampled from the sewershed in the pre-GSI phase; statistical testing to investigate differences between pre-GSI and GI

construction phases will be performed prior to the 2023 final report to determine if both datasets can be combined to bolster this analysis.

Cr loads increased in Blenheim (22.9%, not significant) following GSI installation, while Indian Springs exhibited a modest decrease (8.6%, not significant). In the post-AI^2 phase, Cr storm event loads decreased by 40.2% (not significant) in Indian Springs. Whereas a bioretention field study in Maryland demonstrated effective Cr load reductions through both runoff volume attenuation and concentration reductions (Li & Davis, 2009), only significant concentration reductions were observed in Clintonville.

Significant increases in Ni storm event load of 100.1% were observed at Cooke-Glenmont in the post-GSI period (Table 19). However, these data are considered preliminary due to the very small number of storms sampled from the sewershed in the pre-GSI phase; statistical testing to investigate differences between pre-GSI and GI construction phases will be performed prior to the 2023 final report to determine if both datasets can be combined to bolster this analysis. The ISBMPD reported non-significant differences in Ni EMCs for bioretention, but a significant 52.4% reduction as runoff passed through permeable pavement (Clary & Jones, 2016). Given the difference between the median Ni EMC in the post-GSI phase at Indian Springs (2.65 µg/L) and the effluent Ni EMC reported by the ISBMPD based on studies of permeable pavements (1.76 µg/L), improved Ni performance in the sewershed may be possible. Like Zn, the observed treatment performance may be attributed to Ni characteristics. Studies have demonstrated that Ni has the lowest affinity for particulate binding compared to the other heavy metals presented herein (Birch & Rochford, 2010), so sedimentation was a less likely to contribute to removal.

Annual Pollutant Loading

Annual pollutant load reductions for the monitored sewersheds between the project phases are shown in Table 20. Annual loads of nitrogen species at Blenheim and Indian Springs were reduced from 43.1-90.7%, and 24.0-63.6%, respectively, following the installation of GSI (Table 20). Annual loads of TAN and TKN decreased by 79.0% and 14.1%, respectively, in Cooke-Glenmont following GSI, while annual loads of all other N species increased from 8.2-120.6%. Of all nitrogen species, TAN decreased the most in the Cooke-Glenmont sewershed (90.7%), where NO_{2-3} decreased by the lowest amount (only 43.1%), which is likely attributable to nitrification occurring in the GSI. The magnitude of annual load reductions decreased for all nitrogen species except NO_{2-3} between the post-GSI and post-AI^2 phases at Indian Springs, indicative of the increased volume of water routed to the GSI in the post-AI^2 phase. Annual NO_{2-3} loads were further reduced in the post-AI^2 phase when compared to the post-GSI phase in Indian Springs by 13.6%.

Table 20: Annual pollutant load (lb/ac/yr) for monitored sewersheds by project phase. Percent differences are relative to annual loads in the pre-GSI phase in each sewershed. Annual loads and percent differences are excluded from the Blenheim and Cooke-Glenmont sewersheds in the post-AI2 phase due to low sample sizes.

Pollutant	Beechwold (Control)	Blenheim					Cooke-Glenmont					Indian Springs				
		Pre-GI	Post-GI	% Diff	Post-AI[2]	% Diff	Pre-GI	Post-GI	% Diff	Post-AI[2]	% Diff	Pre-GI	Post-GI	% Diff	Post-AI[2]	% Diff
TAN	0.20	0.24	0.02	-90.7	-	-	1.16	0.24	-79.0	-	-	0.60	0.34	-42.6	0.43	-28.2
TKN	2.07	2.19	0.72	-67.3	-	-	4.22	3.62	-14.1	-	-	6.42	2.42	-62.4	3.82	-40.4
NO_{2-3}	1.12	1.15	0.65	-43.1	-	-	0.84	1.84	120.6	-	-	3.17	2.41	-24.0	1.98	-37.6
OrgN	1.89	1.95	0.69	-64.5	-	-	3.06	3.42	11.9	-	-	5.83	2.12	-63.6	3.40	-41.7
TN	3.18	3.34	1.37	-59.0	-	-	5.05	5.46	8.2	-	-	9.59	4.82	-49.7	5.80	-39.5
OP	0.16	0.14	0.09	-37.1	-	-	0.17	0.36	106.1	-	-	0.15	0.13	-11.3	0.08	-46.4
PBP	0.20	0.30	0.03	-88.6	-	-	0.71	0.49	-31.9	-	-	1.19	0.38	-68.2	0.35	-70.1
TP	0.36	0.43	0.12	-71.8	-	-	0.89	0.83	-5.9	-	-	1.33	0.50	-62.3	0.42	-68.3
TSS	149.37	205.12	49.31	-76.0	-	-	228.67	195.23	-14.6	-	-	644.08	116.37	-81.9	189.42	-70.6
Cd	<0.001	<0.001	<0.001	-91.5	-	-	<0.001	<0.001	-27.3	-	-	0.001	<0.001	-79.3	<0.001	-63.5
Cr	0.007	0.008	0.004	-54.5	-	-	0.004	0.010	160.4	-	-	0.010	0.007	-31.8	0.007	-28.5
Cu	0.017	0.022	0.008	-65.6	-	-	0.023	0.034	46.4	-	-	0.043	0.026	-39.4	0.033	-22.1
Ni	0.005	0.009	0.004	-57.0	-	-	0.011	0.017	49.6	-	-	0.015	0.011	-27.7	0.010	-35.1
Pb	0.017	0.027	0.004	-84.4	-	-	0.029	0.017	-41.2	-	-	0.042	0.009	-78.3	0.015	-63.8
Zn	0.085	0.097	0.024	-75.7	-	-	0.121	0.109	-9.8	-	-	0.203	0.146	-28.0	0.156	-23.2
Hardness	166.73	259.12	76.05	-70.7	-	-	200.53	305.08	52.1	-	-	497.18	394.16	-20.7	338.00	-32.1
Alkalinity	106.10	129.47	54.91	-57.6	-	-	92.93	195.29	110.1	-	-	266.93	277.90	4.1	183.52	-31.3

Annual OP load at Cooke-Glenmont increased by 106.1% between the pre- and post-GSI phases; again, these data are considered preliminary due to the very small number of storms sampled from the sewershed in the pre-GSI phase. Statistical testing to investigate differences between pre-GSI and GI construction phases will be performed prior to the 2023 final report to determine if both datasets can be combined to bolster this analysis. Meanwhile, PBP annual loads decreased by 31.9-88.6% across the treatment sewersheds follow GSI installation, showing evidence of sedimentation and particulate removal associated with GSI treatment. In the post-AI^2 phase, PBP loads in Indian Springs were further reduced by 70.1%. Annual loads of TSS and heavy metals associated with particulate matter were also substantially reduced, likely via filtration and sedimentation following the installation of GSI in these sewersheds. The exception to this was the Cooke-Glenmont data where the pre-GSI data set was quite small and are considered preliminary at this point.

Public Health Impacts

Overall

During the 2021 monitoring year, 208 water samples were collected for *E. coli* quantification and molecular analyses from the 12 study sites: Beechwold (BW), Bridge (BR), Church (CH), Indian Springs (IS), Lenappe Inlet (LI) and Outlet (LO) (bioretention cell), Starrett (ST), Unitarian Church Inlet (UCI) and Outlet (UCO) (a second bioretention cell), Blenheim Wetland Inlet (WI) and Outlet (WO), and Whetstone High School (WHS) between March and December 2021 (Table 21). From this, bioretention samples were excluded from summary and statistical analysis unless inlet/outlet paired data were available. For this analysis, the four seasons follow the solstices and equinoxes.

Table 21: Number of collected water quality samples by study site between March 11, 2021 through December 10, 2021.

Study Site	Sample number
Beechwold	28
Bridge	28
Church	21
Indian Springs	13
Lenappe Inlet	4
Lenappe Outlet	1
Starrett	28
Unitarian Church Inlet	5
Unitarian Church Outlet	5
Wetland Inlet	23
Wetland Outlet	25
Whetstone High School	27
Total	**208**

E. coli

The presence of *E. coli* in water is an indication of fecal pollution with the potential for enteric pathogen contamination. *E. coli* concentrations (log CFU/100mL) are summarized in Table 22 and Figure 21. *E. coli* concentrations are briefly compared by season (Table 23) and by green infrastructure versus control sites (Figure 22). The mean concentration of *E. coli* from all 12 sites was 8.12×10^4 CFU/100mL (4.26 log CFU/100mL), which is above the US EPA criteria for recreational water (126 CFU/100mL). As seen in Figure 21, *E. coli* concentrations varied greatly by location. Out of all 12 study sites, the highest average *E. coli* concentration (4.72 log CFU/100mL) was recorded at Bridge, while the lowest average *E. coli* concentration (3.00 log CFU/100mL) was recorded at Lenappe Outlet (Table 22, Table 23). *E. coli* concentrations appear to be lower during the winter season in comparison to spring, summer, and fall seasons (Table 23). In addition, green infrastructure sites have lower overall average *E. coli* concentrations compared to control sites (Figure 22).

Table 22: Summary statistics of *E. coli* concentrations (log CFU/100mL) by sample location for samples collected from March 11, 2021 through December 10, 2021.

	2021 *E. coli* (log CFU/100mL)											
Location	**BW**	**BR**	**CH**	**IS**	**LI**	**LO**	**ST**	**UCI**	**UCO**	**WI**	**WO**	**WHS**
Site Type	Control	GI	GI	GI	GI	GI	Control	GI	GI	GI	GI	Control
Min	3.26	3.50	3.39	2.74	3.43	3.00	2.48	2.43	2.70	3.67	0.00	3.04
Max	6.19	5.91	6.26	5.22	3.43	3.00	5.27	3.60	3.78	5.52	4.46	6.36
Range	2.93	2.41	2.87	2.48	-	-	2.79	1.18	1.08	1.85	4.46	3.32
Mean	4.53	4.72	4.55	4.46	3.43	3.00	4.13	3.12	3.28	4.56	3.21	4.45
St. Dev.	0.66	0.49	0.59	0.61	-	-	0.63	0.47	0.45	0.53	1.20	0.73

Table 23: Mean E. coli concentrations (log CFU/100mL) for each location for the duration of the 2021 monitoring period (March 11, 2021 through December 10, 2021) and by season.

Study Site	**2021 *E. coli* (log CFU/100mL)**				
	Entire Season	By Season			
		Winter	Spring	Summer	Fall
Beechwold	4.53	3.43	4.35	4.70	4.86
Bridge	4.72	3.82	4.57	4.92	4.83
Church	4.55	3.68	4.42	4.47	5.00
Indian Springs	4.46	2.74	4.52	4.74	4.39
Lenappe Inlet	2.72	2.00	3.43	-	-
Lenappe Outlet	3.00	-	3.00	-	-
Starrett	4.13	3.27	4.11	4.34	4.09
Unitarian Church Inlet	3.12	-	-	-	3.12
Unitarian Church Outlet	3.28	-	-	-	3.28
Wetland Inlet	4.53	3.83	4.50	4.84	4.51
Wetland Outlet	3.21	3.61	2.87	3.14	3.89
Whetstone High School	4.45	3.42	4.29	4.74	4.53

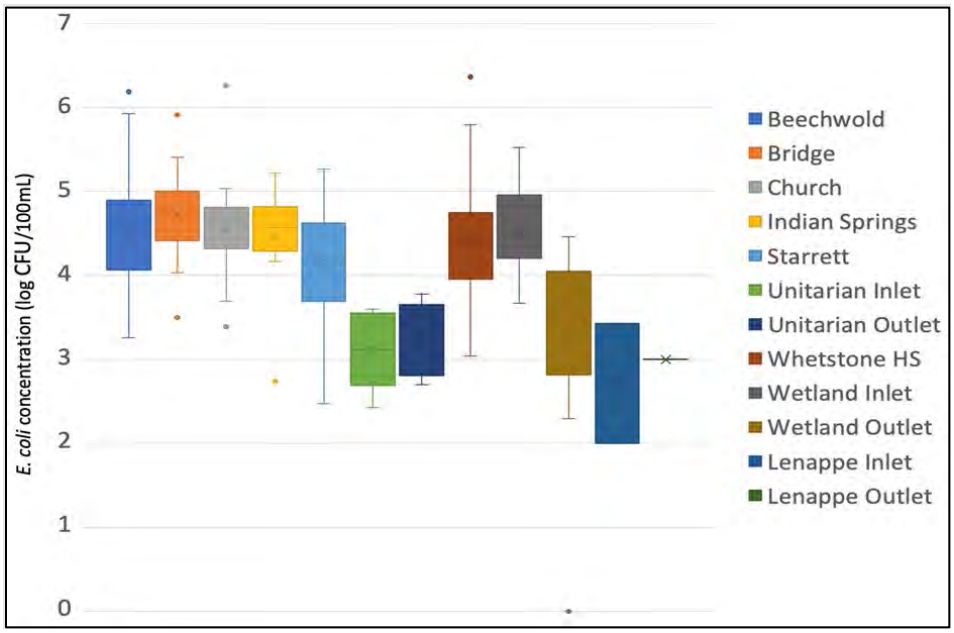


Figure 21: Mean *E. coli* concentration (log CFU/100mL) by location for samples collected from March 11, 2021 through December 10, 2021.

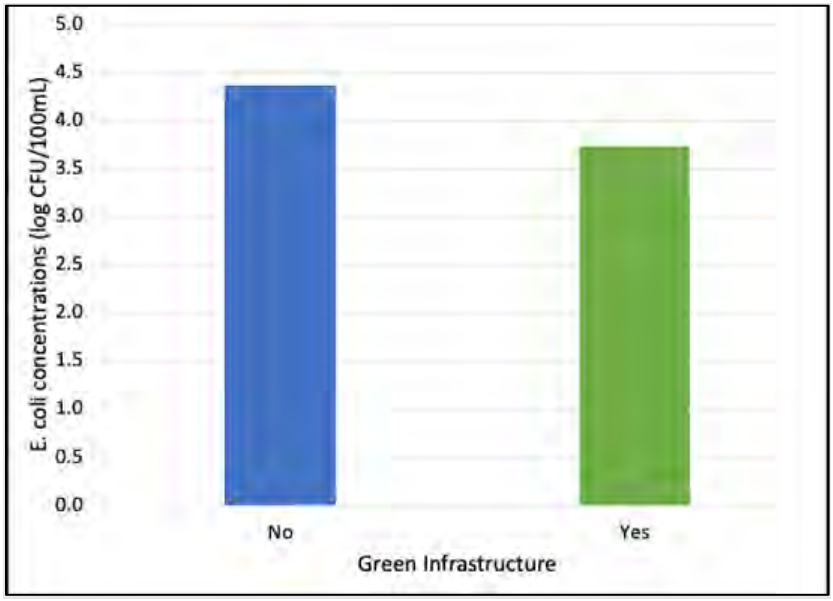


Figure 22: Mean *E. coli* concentration (log CFU/100mL) by control and green infrastructure for samples collected from March 11, 2021 through December 10, 2021.

Microbial Source Tracking

The MST results indicate varying concentrations of fecal bacteria from a variety of sources: human, ruminant, canine, and bird (Figure 23). Universal MST targets general fecal bacteria

(Bacteroides) from warm-blood animals. Overall, fecal contamination was high at each site, which matches the previously determined high *E. coli* contamination. Out of the five MST markers, it makes sense that Universal genetic marker represented the highest average fecal contamination at 5.11 log gene copies per 100mL (log GC/100 mL; Table 24 and Figure 24). Average canine fecal concentrations (3.29 log GC/100 mL) were next highest followed by human (3.11 log GC/100mL). Average bird concentrations were 2.31 log GC/100mL while ruminant concentrations had the lowest overall average at 0.90 log GC/100mL. Microbial source tracking results indicate that all sites have fecal contamination, with the highest sources coming from canines and humans.

Table 24: Mean gene copies (GC) per 100 mL per site for various MST fecal genetic marker for samples collected in 2021.

Marker	**2021 MST genetic marker concentrations (log GC/100ml)**												
	BW	BR	CH	IS	LI	LO	ST	UCI	UCO	WI	WO	WHS	Overall
Universal	5.14	4.78	5.22	5.18	6.46	5.40	5.44	5.26	5.33	4.99	4.84	5.16	5.11
Human	3.16	2.34	2.87	3.50	2.59	1.85	3.43	3.21	3.12	2.82	2.58	4.25	3.11
Ruminant	1.09	1.34	1.11	0.61	0.00	1.90	0.88	0.37	1.48	0.58	0.74	0.62	0.90
Canine	3.53	3.52	3.45	2.96	3.40	3.00	3.17	3.42	3.23	3.16	2.93	3.37	3.29
Bird	2.07	2.16	2.51	2.69	1.90	2.00	2.32	2.61	2.44	2.50	2.29	2.14	2.31

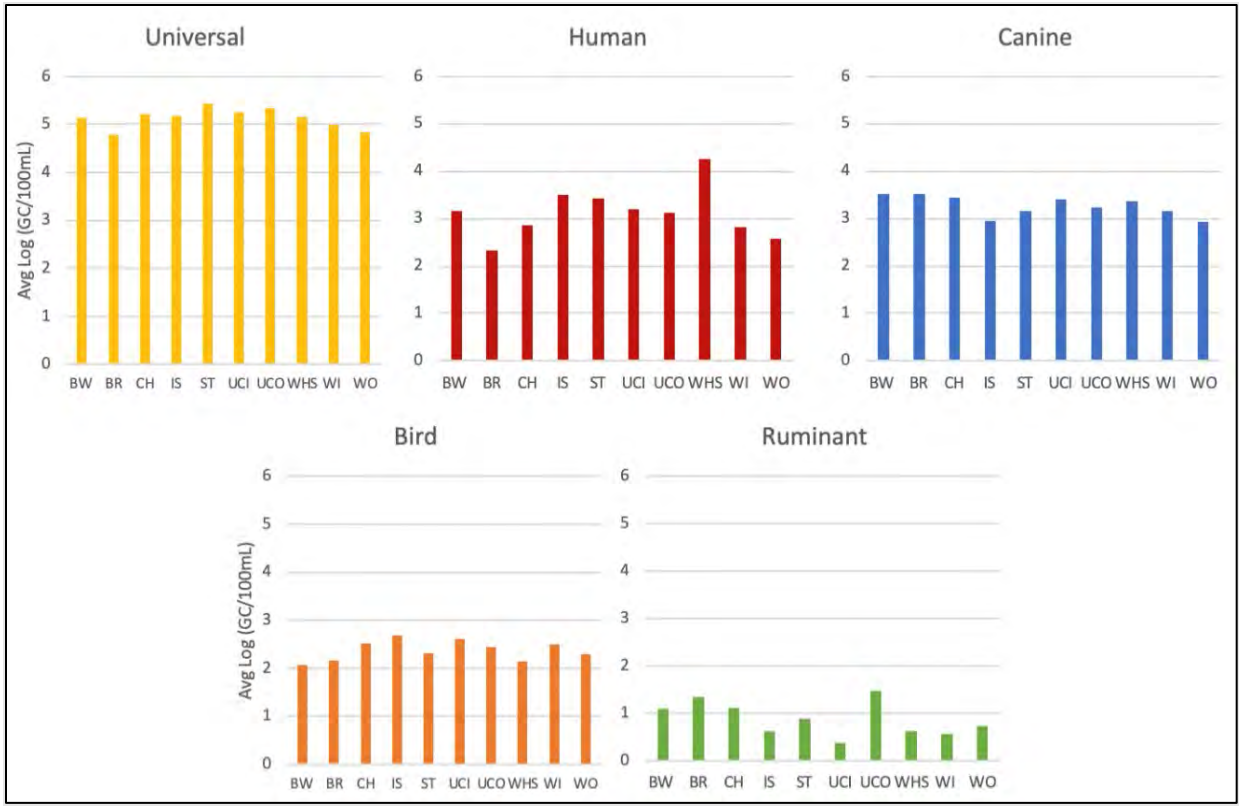


Figure 23: Mean MST genetic marker concentrations (log GC/100mL) by site for samples collected in 2021.

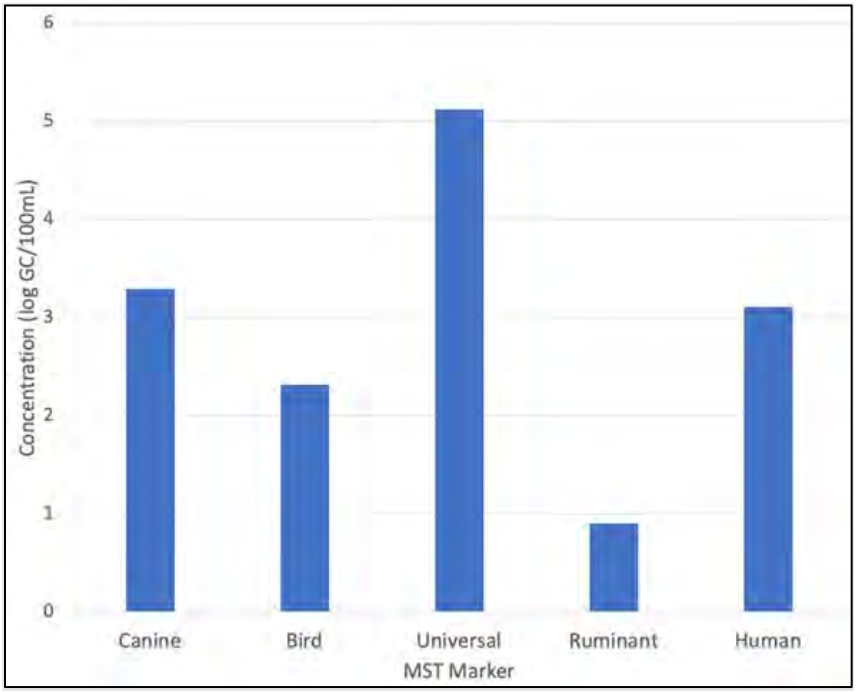


Figure 24: Mean MST genetic marker concentrations (log GC/100 mL) by marker category for samples collected in 2021.

Antibiotic Resistance

Antibiotic resistance genes were observed at all sites (Table 25, Figure 25). Overall, Sulfonamide (*sul*1) was found to be more prevalent than Tetracycline (*tet*Q). The average Sulfonamide concentration (5.29 log GC/100mL) was much higher than that of Tetracycline (4.16 log GC/100mL). Indian Springs had the highest Sulfonamide average concentration at 5.80 log GC/100mL and Lenappe Outlet had the lowest average concentration at 3.92 log GC/100mL (Table 25). The Unitarian Church Outlet had the highest average concentration of TetQ, 4.32 log GC/100mL and Lenappe Outlet had the lowest concentration at 3.90 log GC/100mL. These results indicate that all sites have antibiotic resistance contamination. It is expected that future carbapenem resistance (bla_{KPC}) contamination will be similarly observed at these sites.

Table 25: Mean gene copies (GC) per 100 mL by site for three antibiotic resistant gene (ARG) markers on samples collected in 2021 (n=201). Note: *bla*$_{KPC}$ will be analyzed in 2022 with results included in the 2023 final report.

ARG	2021 MST genetic marker concentrations (log GC/100ml)												
	BW	BR	CH	IS	LI	LO	ST	UCI	UCO	WI	WO	WHS	Overall
Sulfonamide	5.09	5.55	5.12	5.80	4.33	3.92	5.11	5.50	4.53	5.16	4.99	5.82	5.29
Tetracycline	4.18	4.20	4.13	4.24	3.95	3.90	4.09	4.30	4.32	4.01	4.11	4.25	4.16
Carbapenem*	-	-	-	-	-	-	-	-	-	-	-	-	-

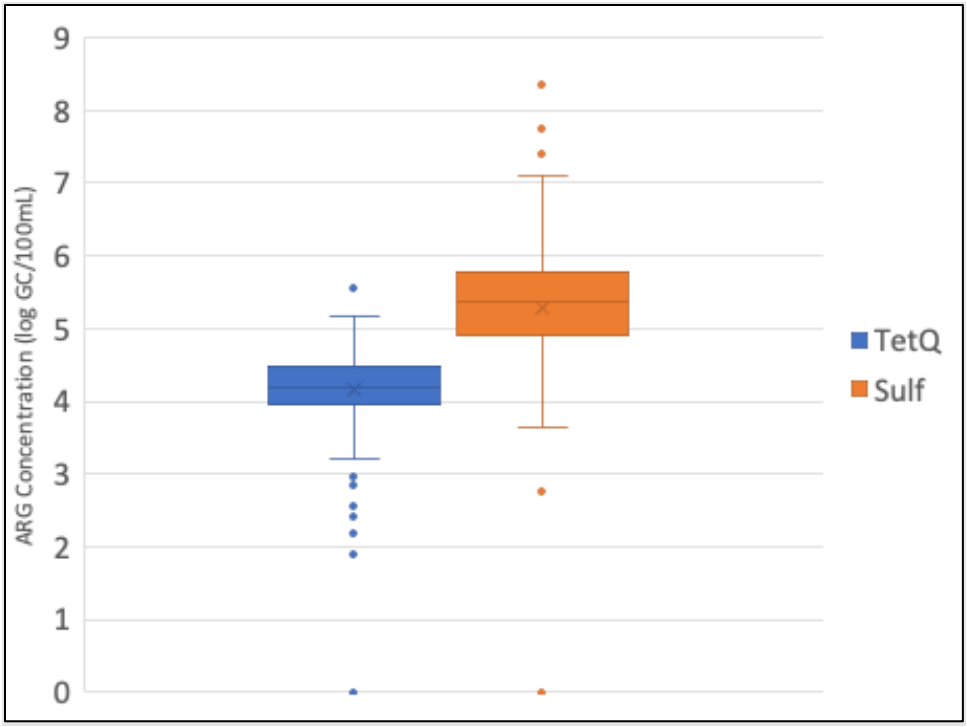


Figure 25: Mean ARG concentrations of tetracycline (TetQ) and sulfonamide (Sulf) resistance (log GC/100mL) for samples collected in 2021.

Conclusions

This report details holistic hydrologic and water quality monitoring activities undertaken by Ohio State University to quantify and compare the effects of installing green infrastructure in the Clintonville neighborhood of Columbus, Ohio, over the 2016-2021 period. This final report includes interim findings for the research as a whole, which will not be fully completed until 2023. The following conclusions were drawn from data collected from 2016-2021:

(1) Runoff generation patterns remained similar in the monitored sewersheds before and after the installation of GI. Runoff depths during the post-AI^2 phase significantly increased by 10-60% in the Indian Springs and Cooke-Glenmont sewersheds compared to the control, Beechwold. This is likely explained by the increased runoff volumes redirected to the storm sewer through the completion of additional infrastructure improvements associated with the Blueprint project. Though not statistically significant, runoff depths decreased

23-43% across post-GI and post-AI^2 phases for Blenheim. Runoff thresholds increased by 0.01 inch across all treatment sewersheds post-GI only to revert back to pre-GI levels following the completion of additional infrastructure improvements. Changes in runoff coefficients varied following the installation of GI; results were likely influenced by the wettest year on record in Columbus (2018), which occurred during the monitoring period following the construction of GI, as well as the completion of other pillars of the Blueprint Columbus project (i.e., lateral lining, downspout disconnection, and sump pump installation), which introduced additional water into the Indian Springs and Cooke-Glenmont sewersheds. Runoff coefficients in the post-AI^2 phase increased for both Cooke-Glenmont and Indian Springs, likely due to the additional runoff volumes diverted into the storm sewer system associated with additional improvements in the sewersheds. Area-normalized peak runoff flow rates were reduced by 10-40% following the installation of GI in the treatment sewersheds, though results were not statistically significant. Data collected during the upcoming 2022 monitoring campaign is expected to bolster the post-AI^2 datasets for many of the treatment sewersheds and solidify conclusions on the hydrologic impact of the Blueprint pillars to be presented in the 2023 final report.

(2) A total of 46 simulated storm tests were successfully completed on a variety of BRCs in three Blueprint project areas in the Clintonville neighborhood. Results indicate a difference in hydrological function depending on bioretention design; mean volume reductions were 30% higher in bump-out-style bioretention cells compared to systems installed in the right-of-way. Results were attributed to subsurface infrastructure (e.g., sanitary and storm sewer lines) underlying bump-out bioretention cells, which may have

provided preferential pathways for flow to bypass underdrains. Peak flow rate reductions and lag-to-peaks were similar across all tests, attributed to the consistent hydrograph produced by gravity-fed inflow from the water tank or hydrants used in testing.

(3) Since the previous report, water quality samples have been collected in the monitored sewersheds to capture stormwater pollutant concentrations and loads in the post-AI^2 phase. However, the limited sample size of data collected from Blenheim and Cooke-Glenmont in the post-AI^2 phase is not sufficient to draw statistically sound conclusions regarding water quality trends following the completion of Blueprint Columbus pillars. Summary statistics are presented in the Results section and data collected to-date are presented graphically in Appendix D; however, discussion of these results has been excluded from the main body of this report. Further, we have refrained from formulating conclusions about changes in water quality during the post-AI^2 phase for these sewersheds until additional data can be collected. Thus, at the time of this report, all trends observed during the post-AI^2 phase in Blenheim and Cooke-Glenmont are considered preliminary observations. It is expected that data collected during the 2022 monitoring campaign will bolster analysis and strengthen conclusions, which will be presented in the 2023 final report. Significant reductions in the post-AI^2 phase for concentrations of orthophosphate (OP), particulate bound phosphorus (PBP), total nitrogen (TN), total phosphorus (TP), and TSS and loads of total ammoniacal nitrogen (TAN), lead (Pb), and copper (Cu) were observed in Indian Springs. Clear annual load reductions were observed for almost all water quality parameters at Indian Springs. Overall results demonstrate the pollutant removal effectiveness of the GSI installed in these areas compared to the control sewershed.

(4) The mean *E. coli* concentrations for samples collected from all 12 sites in 2021 was $8.12x10^4$ CFU/mL, which exceeded US EPA criteria for recreational waters (126 CFU/mL). Further, *E. coli* concentrations varied greatly by sampling location and appeared to be lower in the winter months compared to spring-fall. Green infrastructure sites have lower overall average *E. coli* concentrations compared to control sites. MST results identified varying concentrations of fecal bacteria from all sources at each site. The highest sources of fecal contamination were canine followed by human sources, with average concentrations of 3.29 log GC/100 mL and 3.11 log GC/100 mL, respectively. Results from 2021 also indicated that all sites have antibiotic resistance genes present in the stormwater. Sulfonamide, present at an average concentration of 5.29 log GC/100mL, was more prevalent than Tetracycline (average concentration of 4.16 log GC/100mL).

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Appendix A: Green Infrastructure Retrofits in the Clintonville Neighborhood

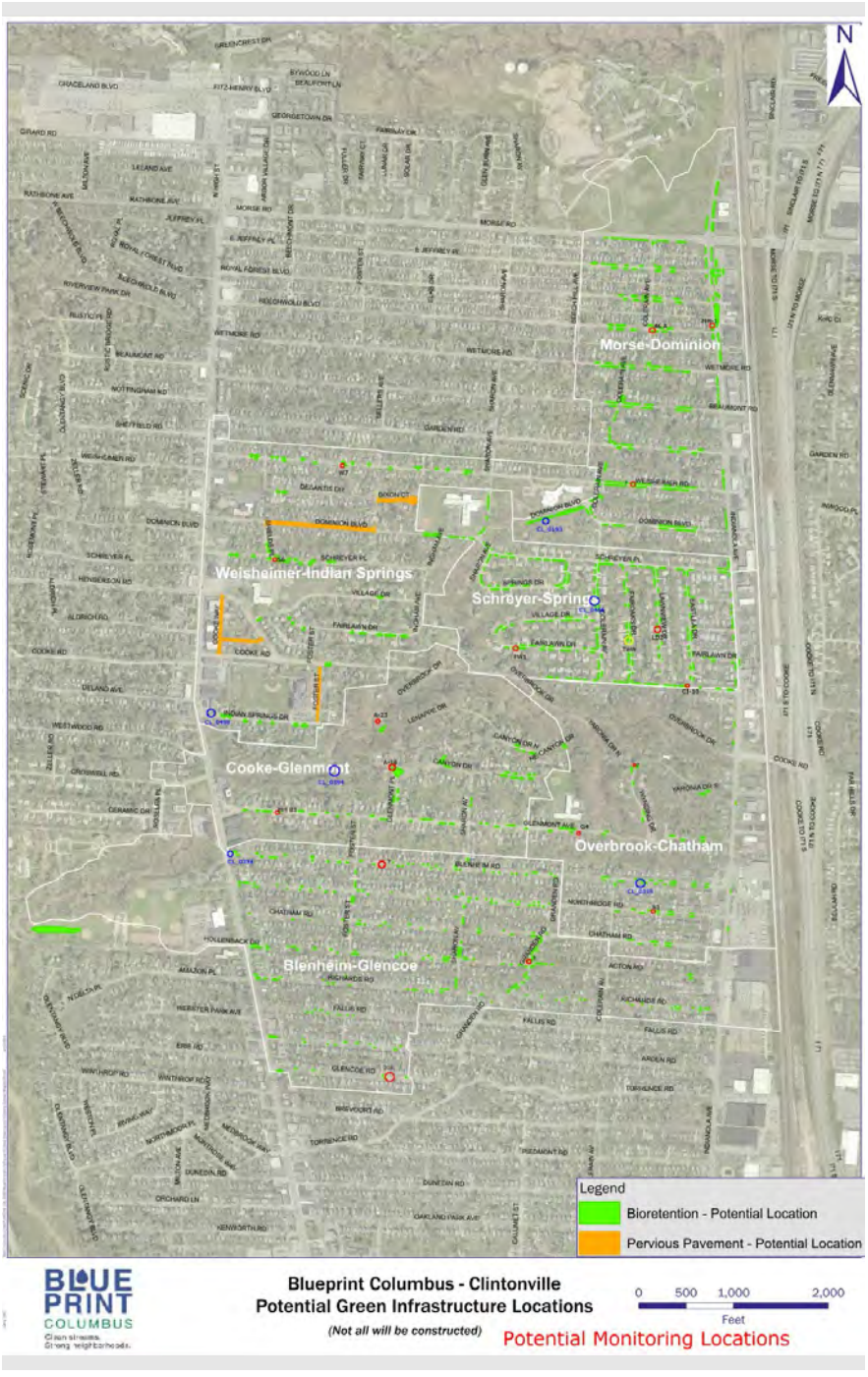


Figure 26. Locations of bioretention (green) and permeable pavement (orange) retrofits planned for the Clintonville neighborhood. The areas of Clintonville being monitored are outlined in blue (control sewershed) and white (green infrastructure retrofits).

Appendix B: GIS Analysis to Identify Different Impervious Surface Types in Each Sewershed

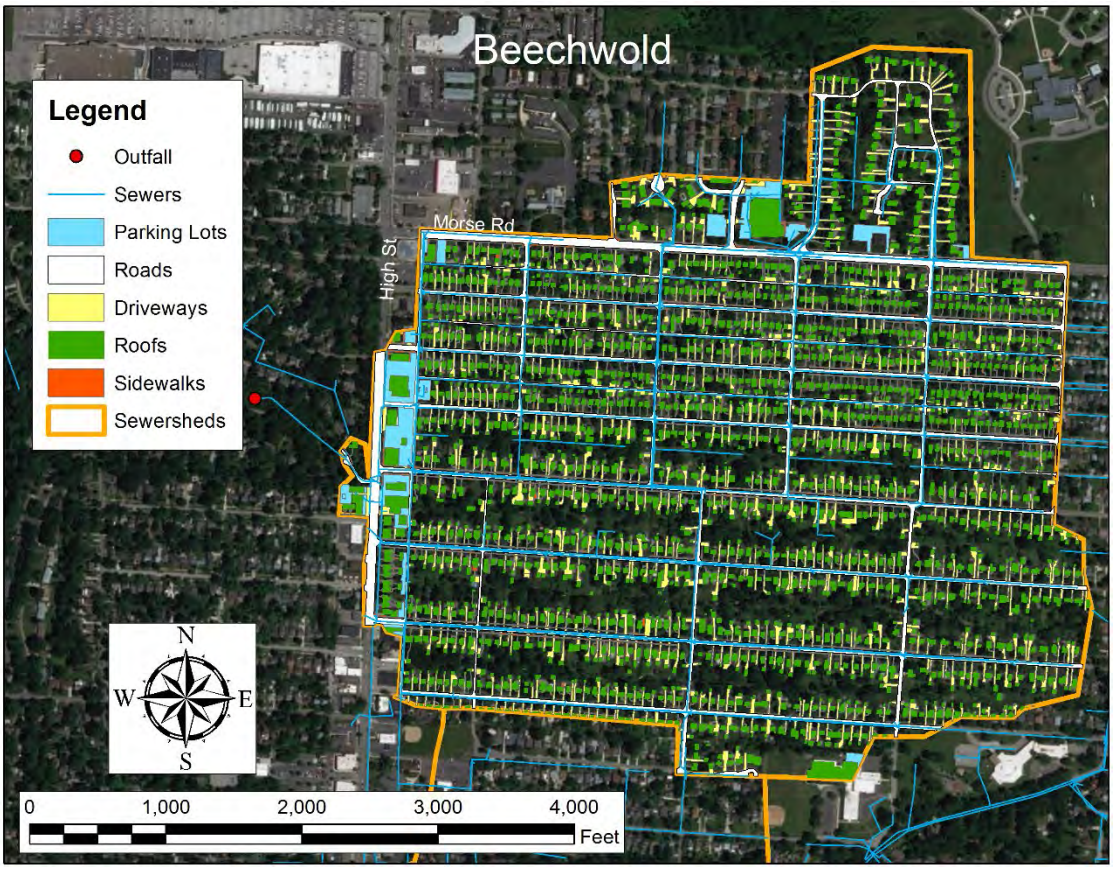


Figure 27. Map showing impervious surface types in the Beechwold sewershed. Pervious areas in the sewershed are not highlighted with color.

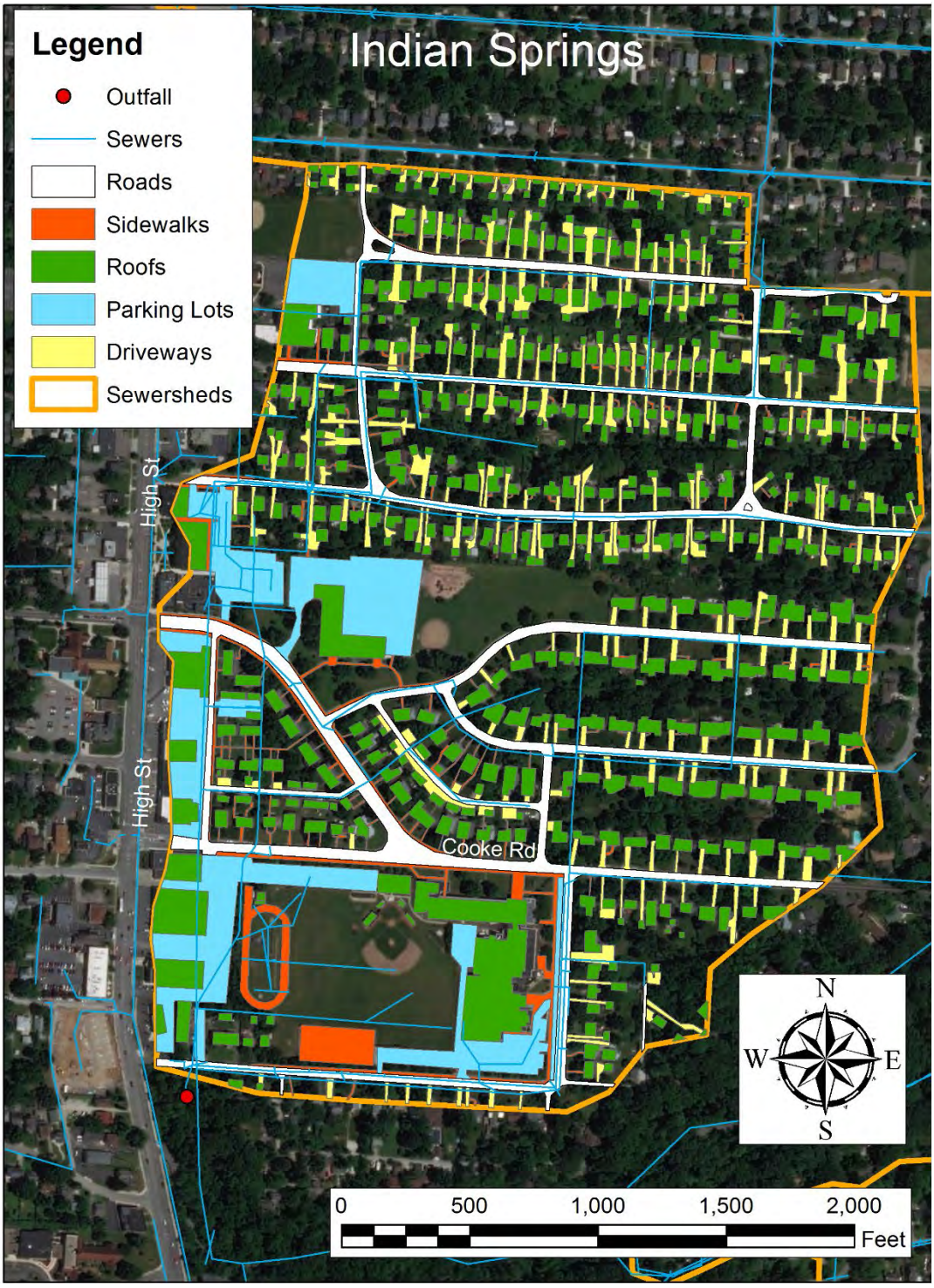


Figure 28. Map showing impervious surface types in the Indian Springs sewershed. Pervious areas in the sewershed are not highlighted with color.

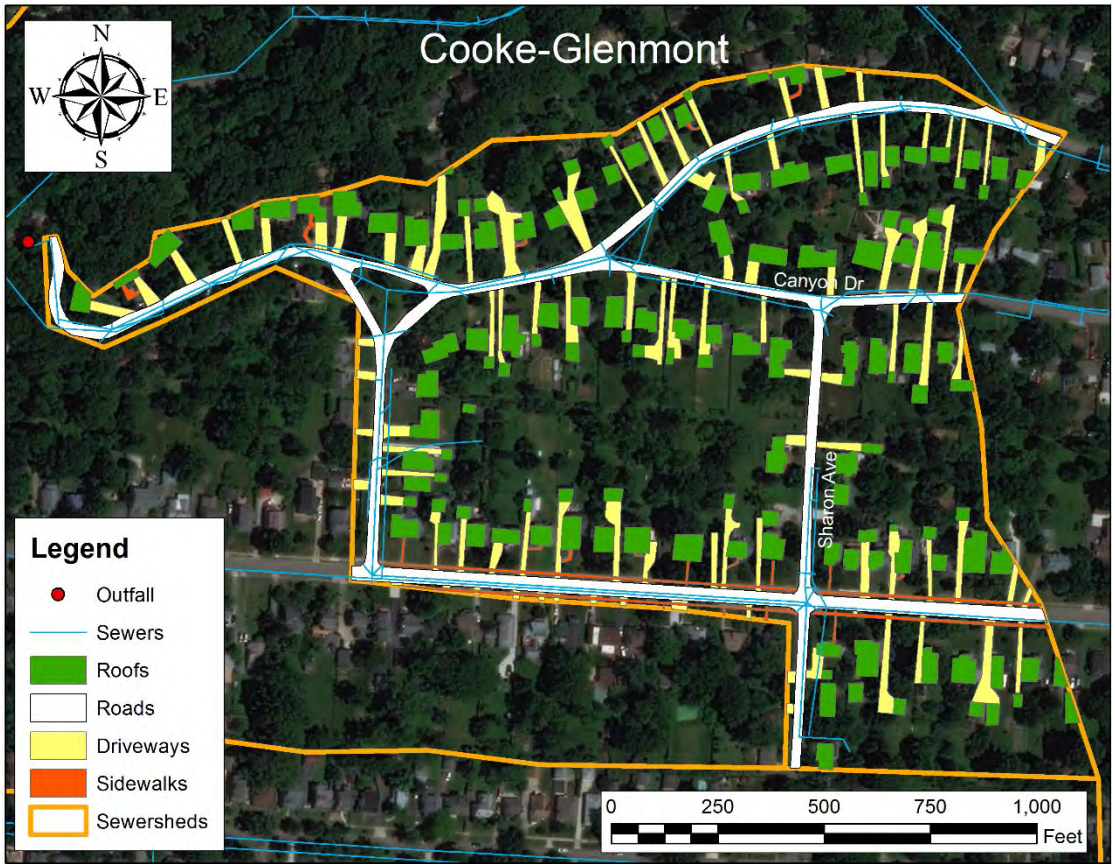


Figure 29. Map showing impervious surface types in the Cooke-Glenmont sewershed. Pervious areas in the sewershed are not highlighted with color.

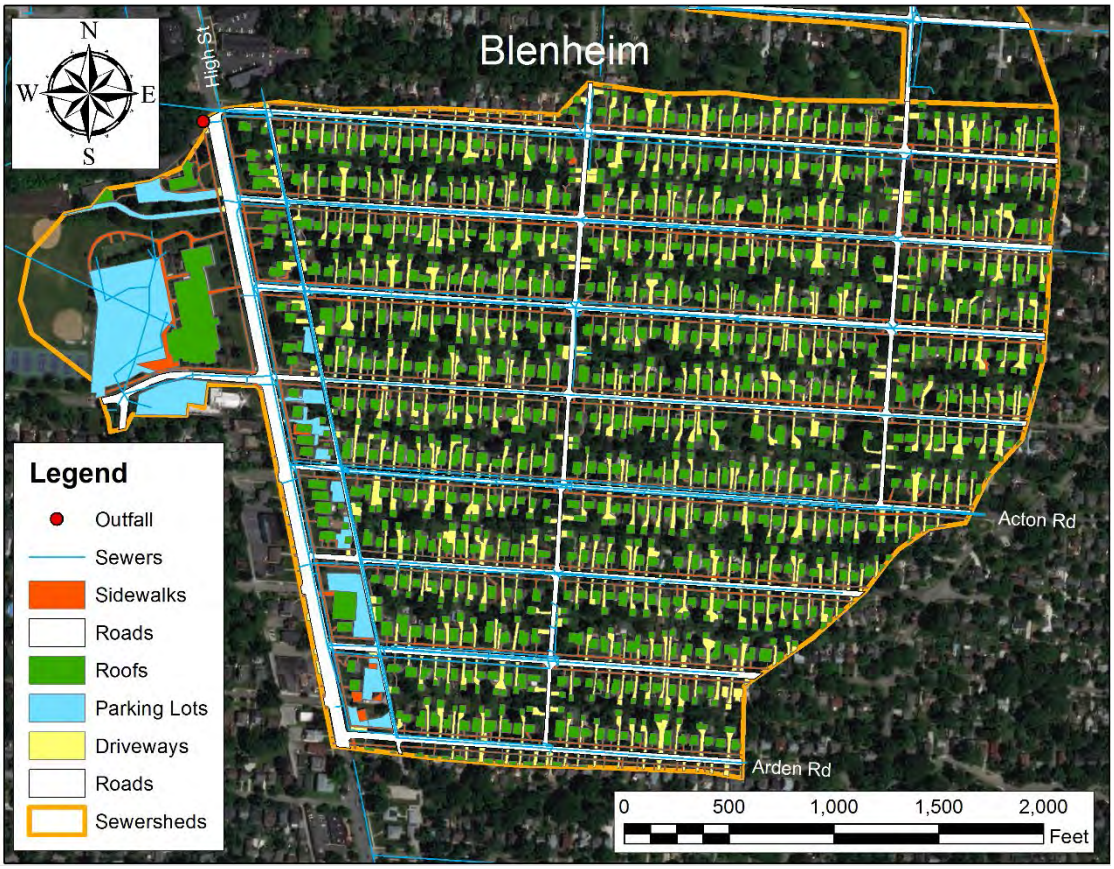


Figure 30. Map showing impervious surface types in the Blenheim sewershed. Pervious areas in the sewershed are not highlighted with color.

Figure 31. Map showing impervious surface types in the Starrett sewershed. Pervious areas in the sewershed are not highlighted with color.

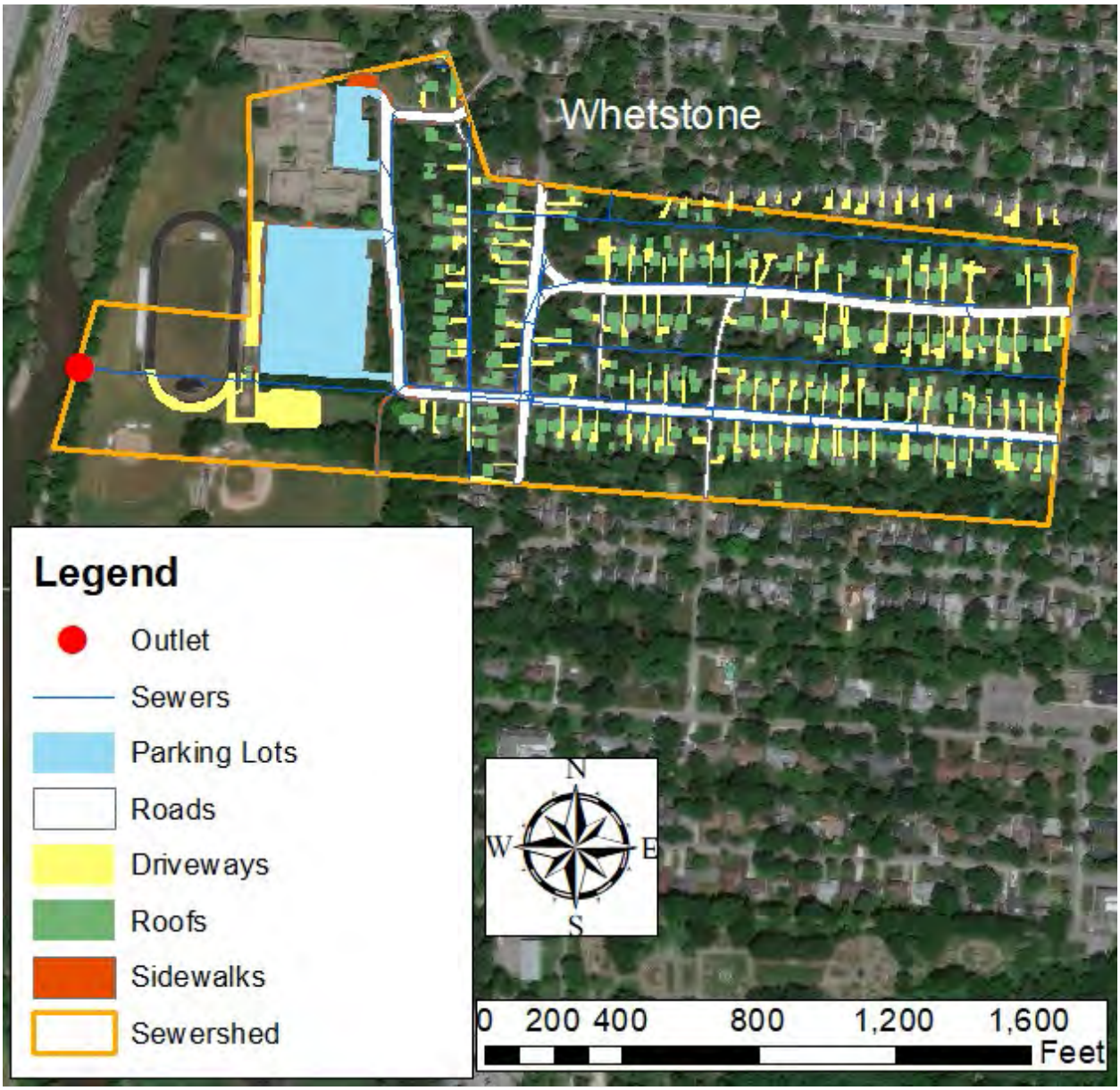
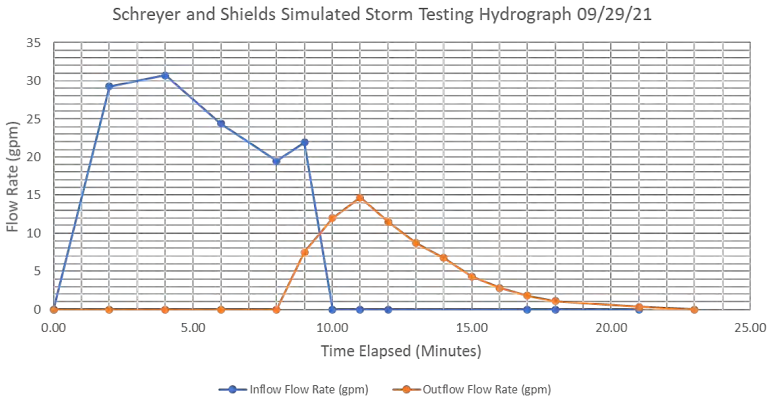


Figure 32. Map showing impervious surface types in the Whetstone sewershed. Pervious areas in the sewershed are not highlighted with color.

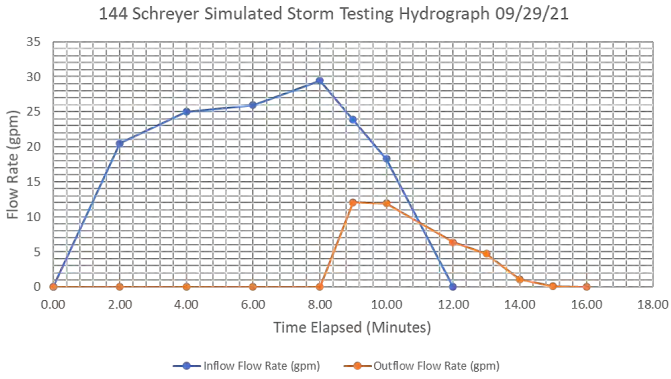
Appendix C: Results of Simulated Storm Testing

94 E.Schreyer/ Corner of Schreyer and Shields



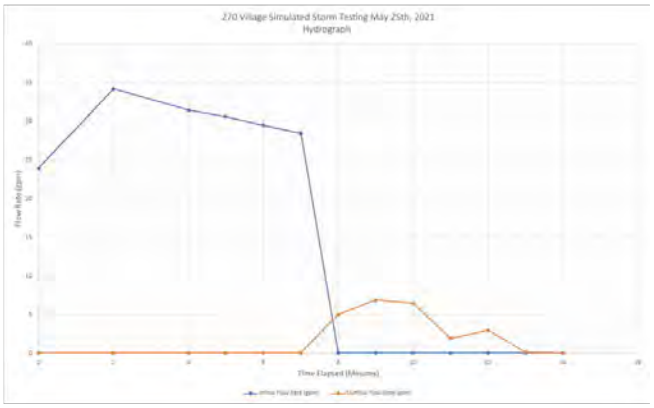
Testing Date	% Volume Reduction	% Peak Flow Reduction	Lag Time	ADP
7/24/2018	44	73	7	3
10/30/2018	34	60	13	2
8/15/2019	45.8	62	6	2
8/20/2020	33.7	49.8	6	5
9/30/2020	45	52.6	6	2
5/25/2021	40.4	21.4	7	4
9/29/2021	56.9	52.3	9	7

144 E. Schreyer



Testing Date	% Volume Reduction	% Peak Flow Reduction	Lag Time	ADP
8/20/2020	76.4	63.2	6	5
9/30/2020	35.1	65.6	6	2
5/25/2021	86.5	68.6	9	4
9/29/2021	79.5	59.1	7	7

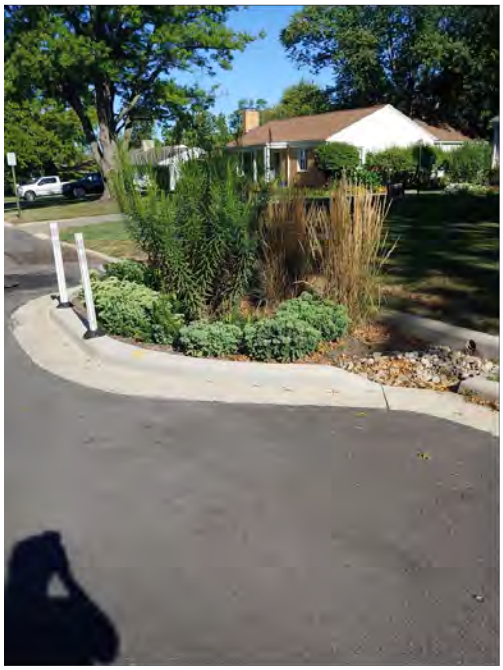
270 Village

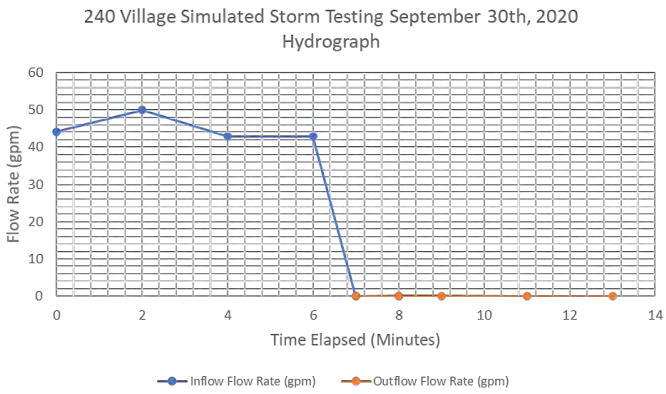


Testing Date	% Volume Reduction	% Peak Flow Reduction	Lag Time	ADP
5/8/2019	90.4	72.5	10	4
8/15/2019	69.8	73	6	2
8/20/2020	86.2	77	6	5
9/30/2020	84.5	73.5	7	2
5/25/2021	89.9	80	8	4
9/29/2021	**	**	7	4

** This test did not yield enough measurable outfall, only 130mL was collected over 10 minutes

240 Village

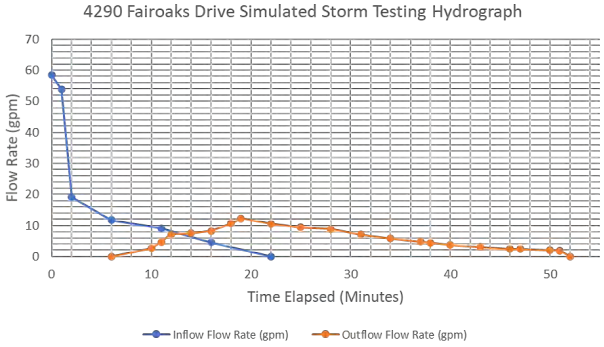




Testing Date	% Volume Reduction	% Peak Flow Reduction	Lag Time	ADP
8/20/2020	99.8	99.9	5	5
9/30/2020	99.7	99.9	8	2
5/25/2021	**	**	7	4

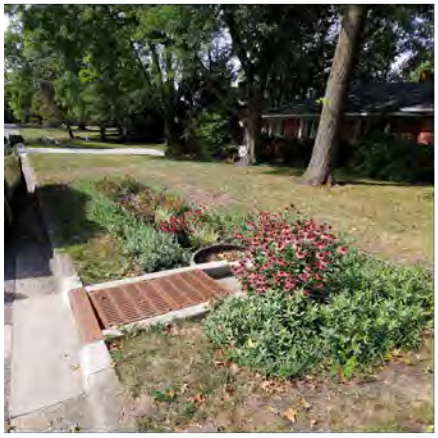
** This test did not yield enough measurable outfall, only 150mL was collected over 10 minutes

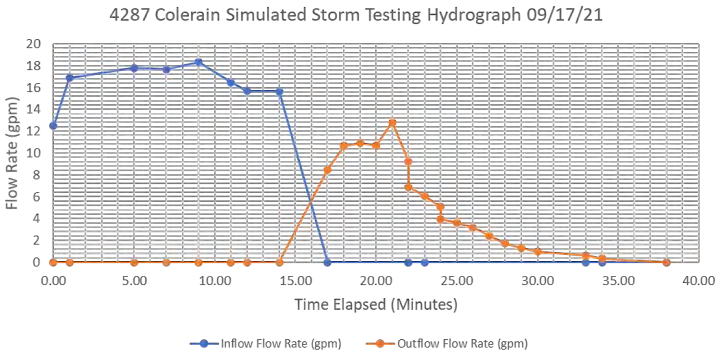
4290 Fairoaks



Testing Date	% Volume Reduction	% Peak Flow Reduction	Lag Time	ADP
5/8/2019	16.2*	72	9	0
10/24/2019	47.3	85.5	13	3
8/20/2020	52.2	74.2	7	5
9/30/2020	10.9	78.7	7	2

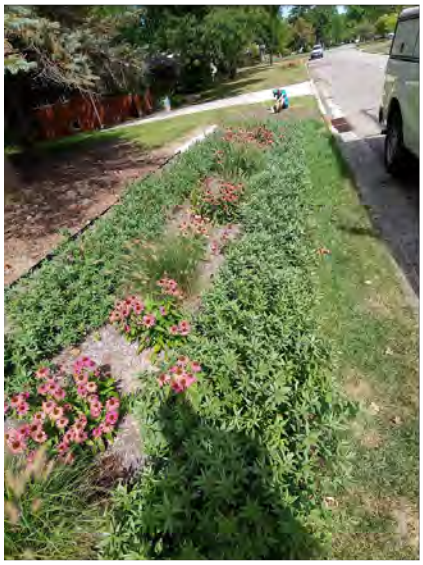
4287 Colerain

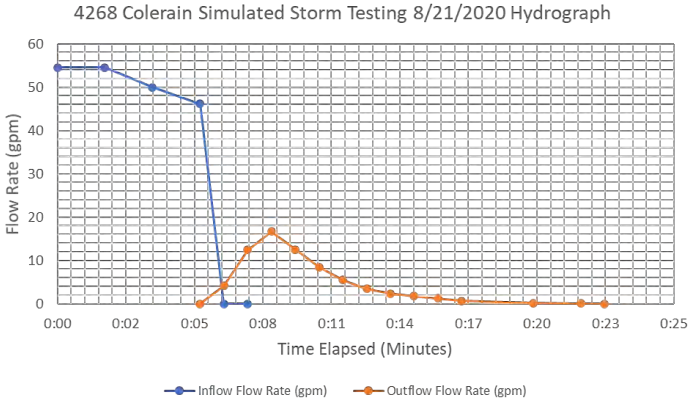




Testing Date	% Volume Reduction	%Peak Flow Reduction	Lag Time	ADP
5/8/2019	65	68	11	4
10/24/2019	65	87	9	3
8/20/2020	99	989	14	5
9/30/2020	88	93	11	2
6/17/2021	79	52	15	4
9/17/2021	36	30	18	4

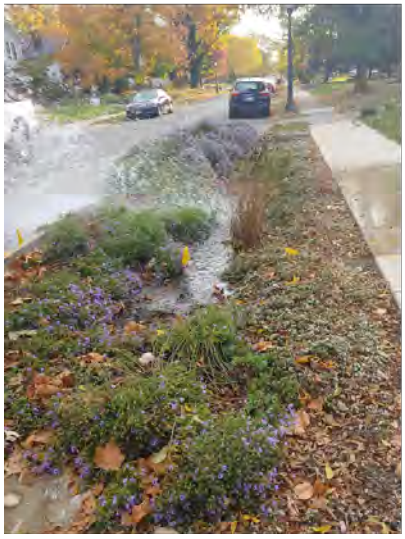
Across from 4268 Colerain

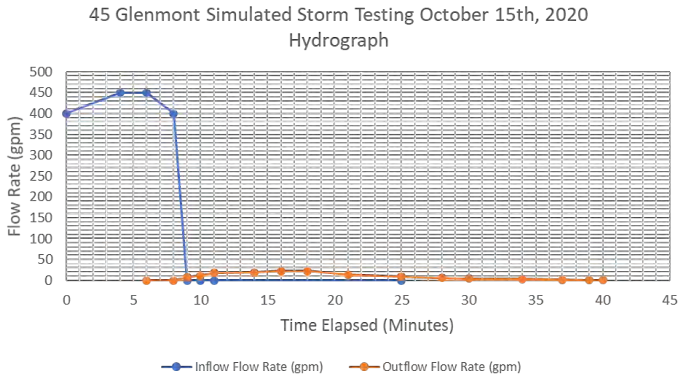




Testing Date	% Volume Reduction	% Peak Flow Reduction	Lag Time	ADP
8/20/2020	57.4	69.4	6	5
9/30/2020	61.6	74.9	7	2
6/17/2021	63.4	58.9	8	4
9/17/2021	77.8	51.5	12	4

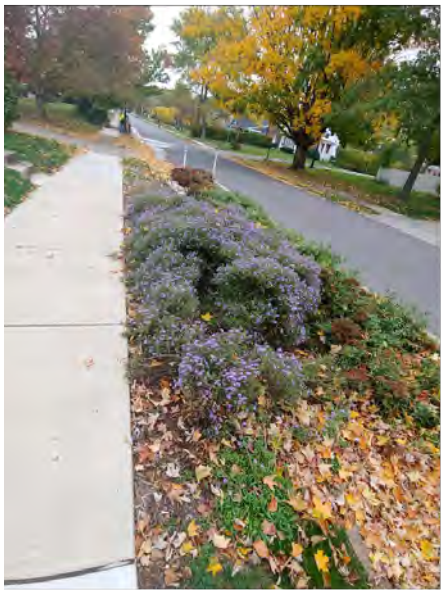
45 Glenmont

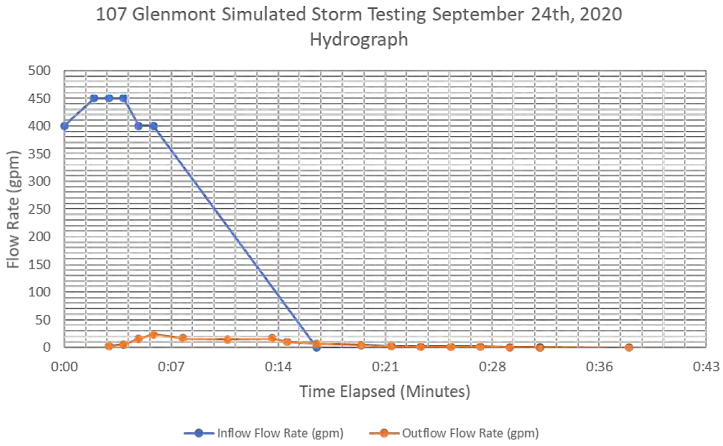




Testing Date	% Volume Reduction	% Peak Flow Reduction	Lag Time	ADP
9/24/2020	83.7	92	8	9
10/15/2020	88	95	9	3
11/5/2020	84.6	92.3	10	8
6/16/2021	97.3	96.3	20	4

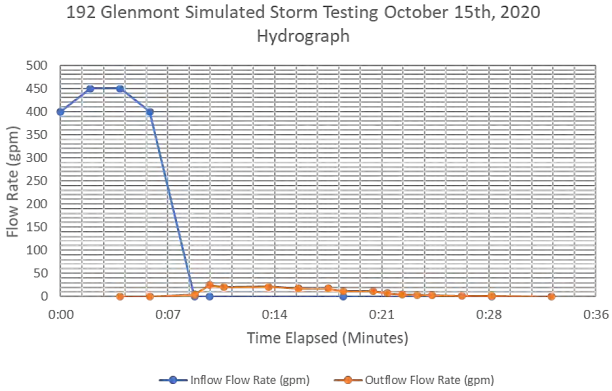
107 Glenmont





Testing Date	% Volume Reduction	% Peak Flow Reduction	Lag Time	ADP
9/24/2020	81.7	94.7	3	9
10/15/2020	72.8	92.3	6	3
11/5/2020	73.5	86.5	6	8
6/16/2021	96.8	95.6	17	4

192 Glenmont



Testing Date	% Volume Reduction	% Peak Flow Reduction	Lag Time	ADP
9/24/2020	93.2	96.1	6	9
10/15/2020	89	94.5	8	3
11/5/2020	91	95	12	8
6/16/2021	95.6	96	10	4

Appendix D: Graphical and Tabular Analysis of Pollutant Concentration and Load

Note: Data and associated trends in the post-AI^2 phase in Blenheim and Cooke-Glenmont presented in the following graphs/tables should be considered preliminary at this time due to low sample size. Data collected in 2022 is expected to bolster statistical analysis and will be presented in the 2023 final report. Table 2 in each of the following figures contains interpretations which are a result of ANCOVA analysis comparing project phase. These can be considered accurate for all three treatment sewersheds for pre-GSI versus post-GSI comparisons. Pre-GSI versus post-AI^2 comparisons in Table 2 should be considered conclusive in Indian Springs *only* due to limited sample sizes in Blenheim and Cooke-Glenmont. Interpretations comparing sewersheds (Treatment versus Control) are a result of paired t-test analysis for the post-GSI or post AI^2 phases, and "-" indicate too few data to produce the adequate linear relationship required for analysis.

Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	n	Pre-GSI Control Median	Post-GSI Treatment Median	n	Post-GSI Control Median	Post-GSI Treatment Median	LSM Difference (%) w/ Pre-GSI	n	Post-AI^2 Control Median	Post-AI^2 Treatment Median	LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (mg/L)	38	9.90E-01	1.10	4	9.65E-01	8.75E-01	-35.49	3	1.04	1.30	9.85
	Load (lb/ac)	31	3.98E-02	4.50E-02	3	3.88E-02	3.83E-02	-21.73	3	3.97E-02	1.72E-02	-70.16
Cooke-Glenmont	Conc (mg/L)	6	8.10E-01	1.59	47	1.00	1.20	-26.67	9	1.10	1.10	-23.69
	Load (lb/ac)	5	5.93E-03	3.37E-02	44	3.42E-02	4.17E-02	34.51	6	1.17E-02	3.76E-02	67.88
Indian Springs	Conc (mg/L)	24	1.06	1.10	16	1.00	1.00	-14.80	38	1.20	0.965	-16.04
	Load (lb/ac)	20	3.27E-02	4.80E-02	14	3.39E-02	5.02E-02	-19.90	30	2.62E-02	3.35E-02	-17.97

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (mg/L) Min	Med	Max	n	Mean+/-SD	n	Load (lb/ac) Min	Med	Max	Mean+/-SD
Beechwold	Control	140	3.00E-02	1.20	7.10	140	1.41+/-9.3E-1	140	6.03E-04	2.56E-02	7.31E-01	5.08E-2+/-7.66E-2
	Post-AI^2	4	8.40E-01	1.25	1.50	4	1.21+/-2.76E-1	4	5.88E-03	1.32E-02	2.27E-02	1.37E-2+/-7.82E-3
Blenheim	Post-GSI	3	8.60E-01	8.90E-01	1.00	3	9.17E-1+/-7.37E-2	3	2.17E-02	3.83E-02	7.79E-02	4.6E-2+/-2.89E-2
	Pre-GSI	37	5.00E-03	1.10	3.50	37	1.29+/-6.89E-1	37	7.52E-03	4.54E-02	5.54E-01	7.96E-2+/-1.03E-2
	Post-AI^2	7	7.80E-01	9.40E-01	1.40	7	1.02+/-2.2E-1	7	1.43E-02	5.17E-02	1.83E-01	5.93E-2+/-5.83E-2
Cooke-Glenmont	Post-GSI	51	6.00E-02	1.30	6.10	51	1.44+/-9.1E-1	51	1.62E-03	4.31E-02	3.72E-01	7.41E-2+/-8.98E-2
	Pre-GSI	6	1.40	2.05	4.40	6	2.27+/-1.12	6	8.93E-03	4.67E-02	1.96E-01	6.57E-2+/-6.9E-2
	Post-AI^2	39	2.60E-01	9.70E-01	5.40	39	1.35+/-9.68E-1	39	4.60E-03	3.39E-02	1.20	1.18E-1+/-2.69E-1
Indian Springs	Post-GSI	17	4.10E-01	1.00	3.30	17	1.13+/-6.94E-1	17	2.19E-03	3.61E-02	1.30E-01	4.66E-2+/-3.7E-2
	Pre-GSI	26	2.00E-01	1.30	11.00	26	1.88+/-2.3	26	3.09E-03	7.02E-02	7.46E-01	1.31E-1+/-1.94E-1

Table 2: Statistical Results and Interpretation
(*Number of data points less than 5)

Sewershed	Parameter	Statistical Test	Post-GSI p-value	Interpretation	Statistical Test	Post-AI^2 p-value	Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.152	Not significant
Blenheim	Load (mg/L)	ANCOVA	0.188	Not significant	ANCOVA	0.188	Not significant
Cooke-Glenmont	Concentration (lb/ac)	T-Test	0.250	Not significant	T-Test	0.839	Not significant
Cooke-Glenmont	Load (mg/L)	T-Test	0.848	Not significant	T-Test	3.57E-04	Post-AI^2 > Pre-GSI
Indian Springs	Concentration (lb/ac)	T-Test	0.099	Not significant	T-Test	0.051	Not significant
Indian Springs	Load (mg/L)	ANCOVA	0.848	Not significant	Linear Model	0.440	Not significant

Figure 33. Summary statistics of TKN in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

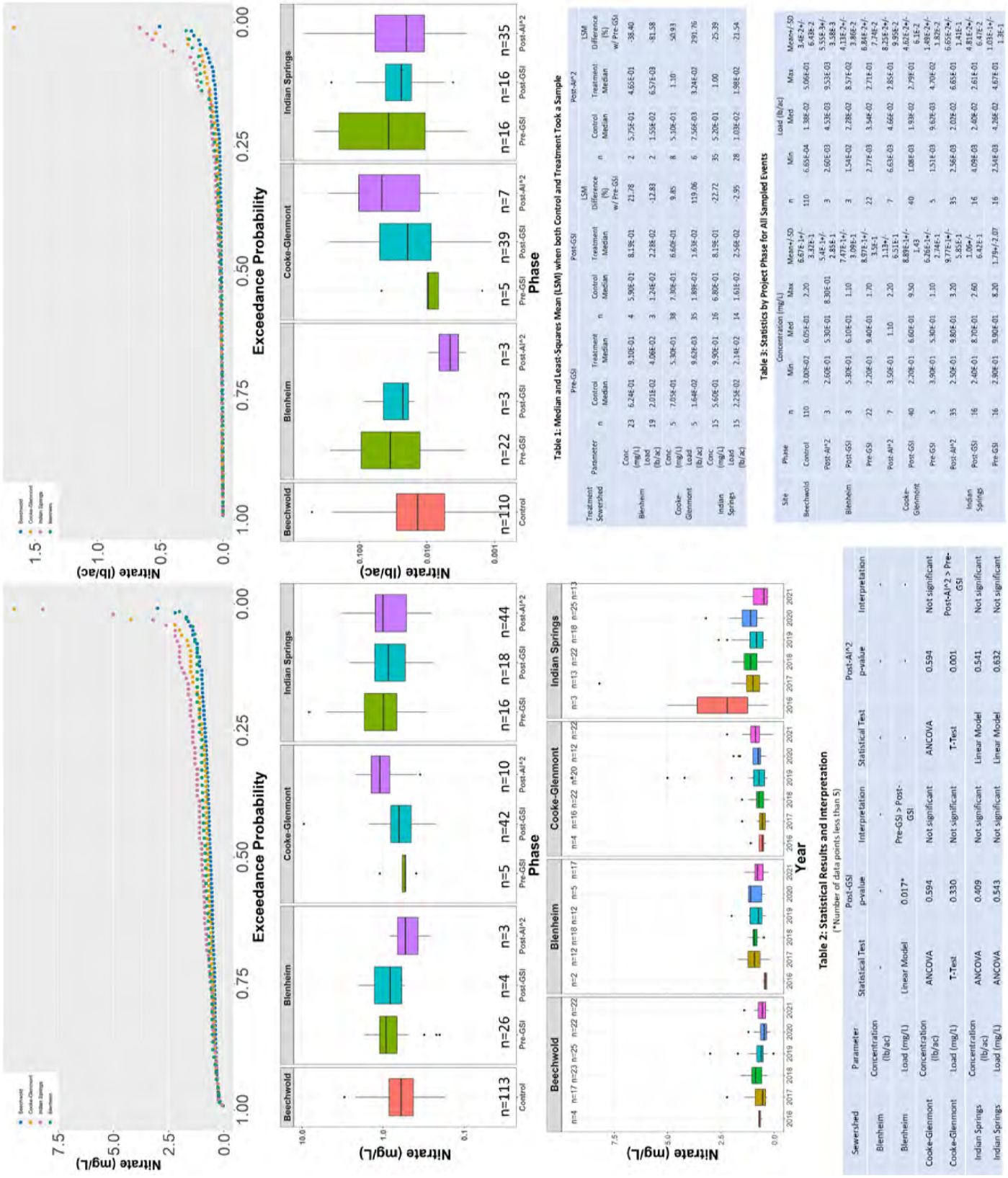


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	Pre-GSI n	Pre-GSI Control Median	Pre-GSI Treatment Median	Post-GSI n	Post-GSI Control Median	Post-GSI Treatment Median	LSM Difference (%) w/ Pre-GSI	Post-AI^2 n	Post-AI^2 Control Median	Post-AI^2 Treatment Median	LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (mg/L)	23	6.24E-01	9.10E-01	4	5.90E-01	8.19E-01	21.78	2	5.75E-01	4.65E-01	-38.40
	Load (lb/ac)	19	2.01E-02	4.06E-02	3	1.24E-02	2.22E-02	-12.83	2	1.55E-02	6.57E-03	-81.58
Cooke-Glenmont	Conc (mg/L)	5	7.05E-01	5.30E-01	38	7.30E-01	6.60E-01	9.85	8	5.10E-01	1.10	-50.93
	Load (lb/ac)	5	1.64E-02	9.62E-03	35	1.80E-02	1.63E-02	119.06	6	7.56E-03	3.24E-02	291.76
Indian Springs	Conc (mg/L)	15	5.60E-01	9.90E-01	16	6.80E-01	8.15E-01	-22.72	35	5.20E-01	1.00	-25.39
	Load (lb/ac)	15	2.25E-02	2.14E-02	14	1.61E-02	2.56E-02	-2.95	28	1.03E-02	1.98E-02	-21.54

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (mg/L) Min	Med	Max	Mean+/-SD	n	Load (lb/ac) Min	Med	Max	Mean+/-SD
Beechwold	Control	110	3.00E-02	6.05E-01	2.20	6.67E-1+/-3.32E-1	110	6.65E-04	1.38E-02	5.06E-01	3.4E-2+/-6.43E-2
	Post-AI^2	3	2.60E-01	5.30E-01	8.30E-01	5.4E-1+/-2.85E-1	3	2.60E-03	4.53E-03	9.53E-03	5.55E-3+/-3.38E-3
Blenheim	Post-GSI	3	5.30E-01	6.10E-01	1.10	7.47E-1+/-3.09E-1	3	1.54E-02	2.28E-02	8.57E-02	4.13E-2+/-3.86E-2
	Pre-GSI	22	2.20E-01	9.40E-01	1.70	8.97E-1+/-3.5E-1	22	2.77E-03	3.54E-02	2.71E-01	6.84E-2+/-7.74E-2
	Post-AI^2	7	3.50E-01	1.10	2.20	1.13+/-6.31E-1	7	6.63E-03	4.66E-02	2.85E-01	8.25E-2+/-9.35E-2
Cooke-Glenmont	Post-GSI	40	2.20E-01	6.60E-01	9.50	8.89E-1+/-1.43	40	1.08E-03	1.93E-02	2.79E-01	4.62E-2+/-6.1E-2
	Pre-GSI	5	3.90E-01	5.30E-01	1.10	6.26E-1+/-2.74E-1	5	1.51E-03	9.62E-03	4.70E-02	1.49E-2+/-1.82E-2
	Post-AI^2	35	2.50E-01	9.80E-01	3.20	9.77E-1+/-5.85E-1	35	2.56E-03	2.02E-02	6.65E-01	6.65E-2+/-1.41E-1
Indian Springs	Post-GSI	16	2.40E-01	8.70E-01	2.60	1.06+/-6.42E-1	16	4.09E-03	2.40E-02	2.61E-01	4.81E-2+/-6.47E-2
	Pre-GSI	16	2.90E-01	9.90E-01	8.20	1.79+/-2.07	16	2.54E-03	4.28E-02	4.67E-01	1.03E-1+/-1.3E-1

Table 2: Statistical Results and Interpretation
(*Number of data points less than 5)

Sewershed	Parameter	Statistical Test	Post-GSI p-value	Interpretation	Statistical Test	Post-AI^2 p-value	Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	-	-	-
Blenheim	Load (mg/L)	Linear Model	0.017*	Pre-GSI > Post-GSI	-	-	-
Cooke-Glenmont	Concentration (lb/ac)	ANCOVA	0.594	Not significant	ANCOVA	0.594	Not significant
Cooke-Glenmont	Load (mg/L)	T-Test	0.330	Not significant	T-Test	0.001	Post-AI^2 > Pre-GSI
Indian Springs	Concentration (lb/ac)	ANCOVA	0.409	Not significant	Linear Model	0.541	Not significant
Indian Springs	Load (mg/L)	ANCOVA	0.543	Not significant	Linear Model	0.632	Not significant

Figure 34. Summary statistics of Nitrate in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

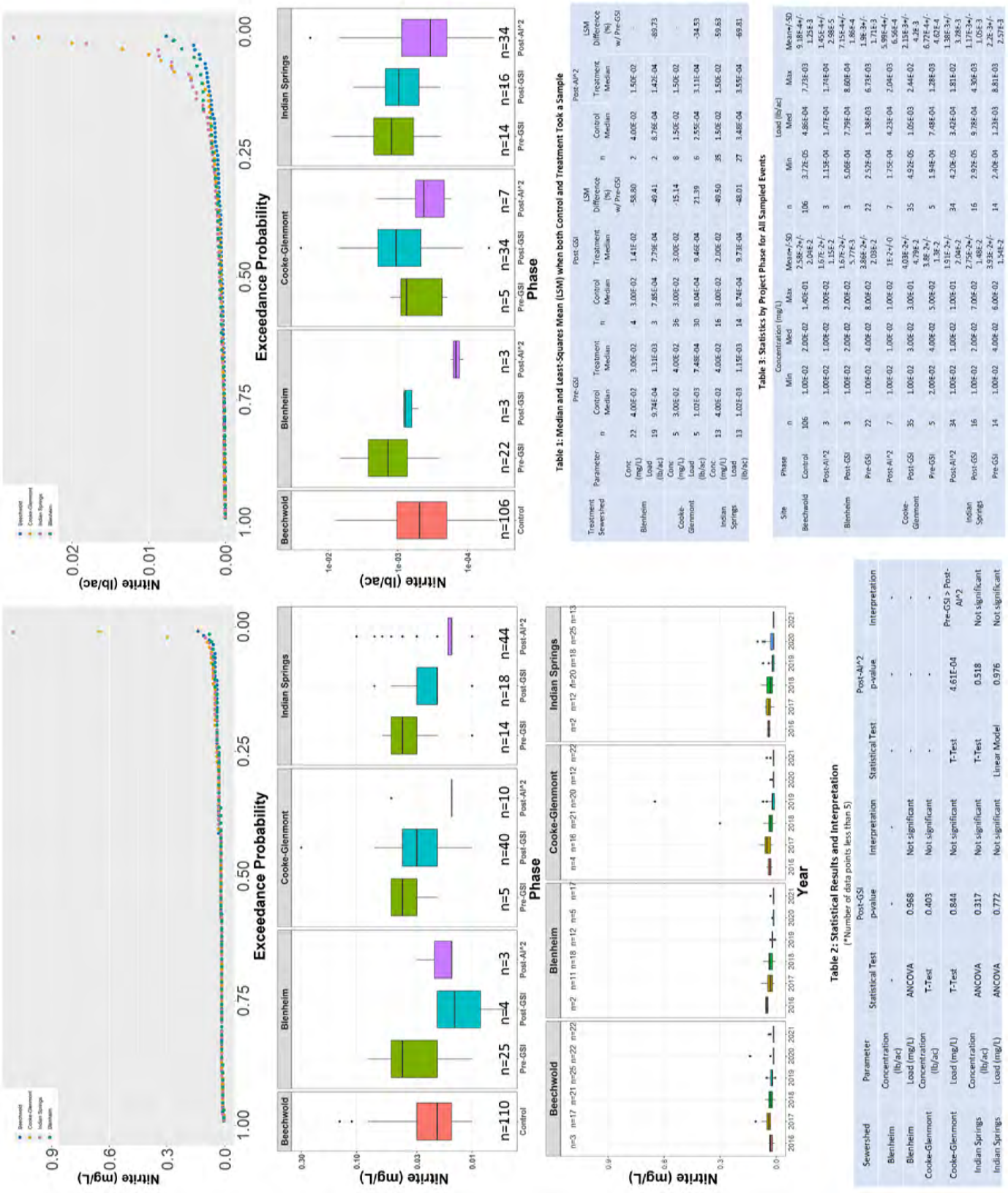


Figure 35. Summary statistics of Nitrite in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

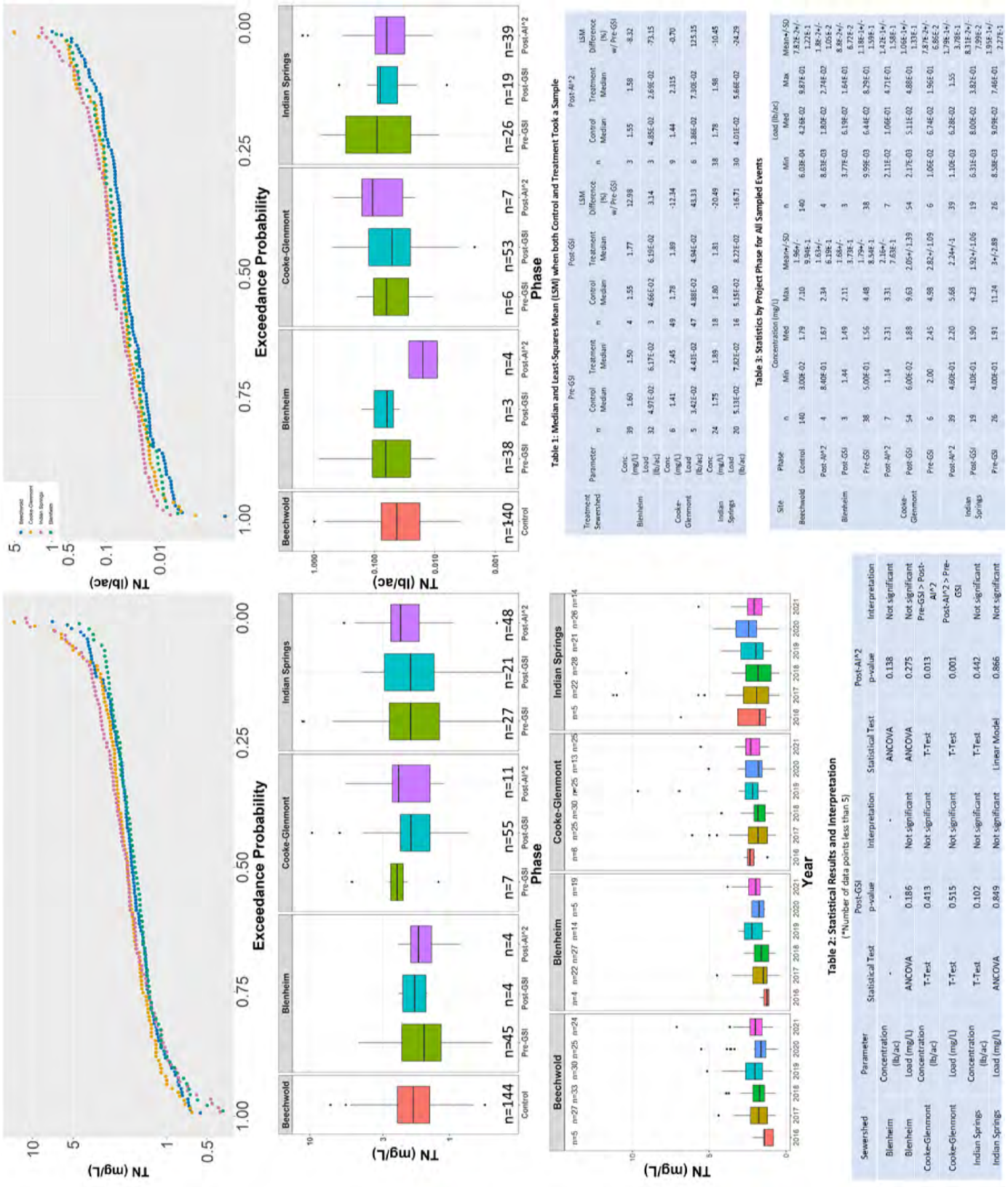


Figure 36. Summary statistics of TN in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

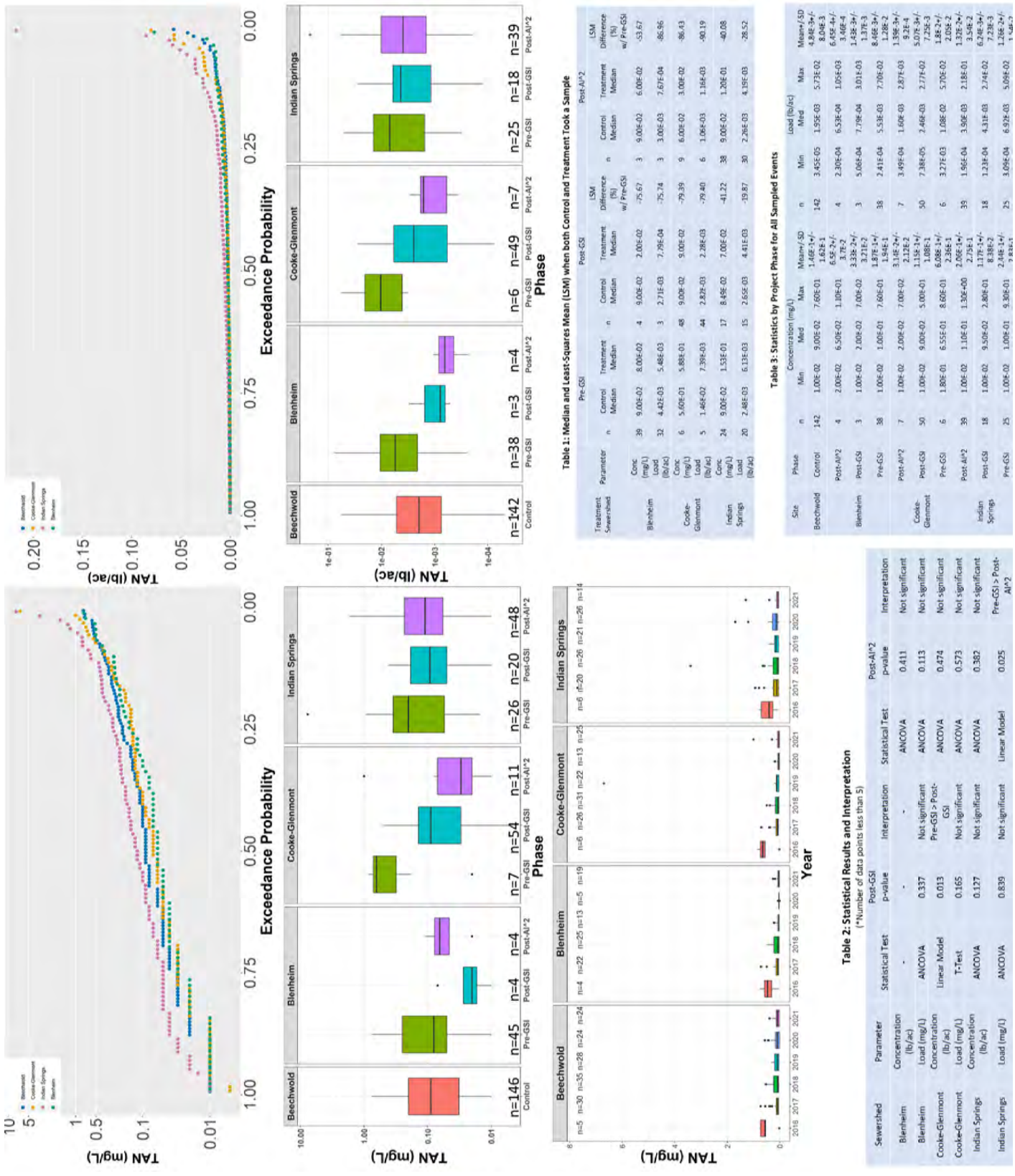


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Sewershed	Parameter	n	Control Median	Pre-GSI Treatment Median	n	Control Median	Post-GSI Treatment Median	LSM Difference (%) w/ Pre-GSI	n	Control Median	Post-AI^2 Treatment Median	LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (mg/L)	39	9.00E-02	8.00E-02	4	9.00E-02	2.00E-02	-75.67	3	9.00E-02	6.00E-02	-33.67
	Load (lb/ac)	32	4.42E-03	5.48E-03	3	2.71E-03	7.79E-04	-71.26	3	3.00E-03	7.67E-04	-86.96
Cooke-Glenmont	Conc (mg/L)	6	5.60E-01	5.88E-01	48	9.00E-02	9.00E-02	-79.39	9	6.00E-02	3.00E-02	-86.43
	Load (lb/ac)	5	1.46E-02	7.39E-03	44	2.82E-03	2.28E-03	-79.40	6	1.06E-03	1.16E-03	-90.19
Indian Springs	Conc (mg/L)	24	9.00E-02	1.53E-01	17	8.49E-02	7.00E-02	-41.22	38	9.00E-02	1.20E-01	-40.08
	Load (lb/ac)	20	2.48E-03	6.13E-03	15	2.65E-03	4.41E-03	-19.87	30	2.26E-03	4.19E-03	-28.52

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (mg/L) Min	Med	Max	Mean+/-SD	n	Min	Load (lb/ac) Med	Max	Mean+/-SD
Beechwold	Control	142	1.00E-02	9.00E-02	7.60E-01	1.40E-1+/-1.62E-1	142	3.45E-05	1.95E-03	5.73E-02	4.84E-3+/-8.04E-3
	Post-AI^2	4	2.00E-02	6.50E-02	1.10E-01	6.5E-2+/-3.7E-2	4	2.30E-04	6.53E-04	1.05E-03	6.45E-4+/-3.46E-4
Blenheim	Post-GSI	3	1.00E-02	2.00E-02	7.00E-02	3.33E-2+/-3.21E-2	3	5.06E-04	7.79E-04	3.01E-03	1.43E-3+/-1.37E-3
	Pre-GSI	38	1.00E-02	1.00E-01	7.60E-01	1.87E-1+/-1.94E-1	38	2.41E-04	5.53E-03	7.70E-02	8.46E-3+/-1.28E-2
	Post-AI^2	7	1.00E-02	2.00E-02	7.00E-02	3.14E-2+/-2.12E-2	7	3.49E-04	1.60E-03	2.87E-03	1.39E-3+/-9.2E-4
Cooke-Glenmont	Post-GSI	50	1.00E-02	9.00E-02	5.00E-01	1.15E-1+/-1.08E-1	50	7.38E-05	2.46E-03	2.77E-02	5.07E-3+/-7.25E-3
	Pre-GSI	6	1.80E-01	6.55E-01	8.60E-01	6.08E-1+/-2.36E-1	6	3.27E-03	1.08E-02	5.70E-02	1.8E-2+/-2.05E-2
	Post-AI^2	39	1.00E-02	1.10E-01	1.30E+00	2.06E-1+/-2.75E-1	39	1.96E-04	3.90E-03	2.18E-01	1.32E-2+/-3.54E-2
Indian Springs	Post-GSI	18	1.00E-02	9.50E-02	2.80E-01	1.17E-1+/-8.38E-2	18	1.23E-04	4.31E-03	2.74E-02	6.24E-3+/-7.23E-3
	Pre-GSI	25	1.00E-02	1.00E-01	9.30E-01	2.14E-1+/-	25	3.09E-04	6.92E-03	5.05E-02	1.26E-2+/-

Table 2: Statistical Results and Interpretation
(*Number of data points less than 5)

Sewershed	Parameter	Post-GSI Statistical Test	Post-GSI p-value	Interpretation	Post-AI^2 Statistical Test	Post-AI^2 p-value	Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.411	Not significant
Blenheim	Load (mg/L)	ANCOVA	0.337	Not significant	ANCOVA	0.113	Not significant
Cooke-Glenmont	Concentration (lb/ac)	Linear Model	0.013	Pre-GSI > Post-GSI	ANCOVA	0.474	Not significant
Cooke-Glenmont	Load (mg/L)	T-Test	0.165	Not significant	ANCOVA	0.573	Not significant
Indian Springs	Concentration (lb/ac)	ANCOVA	0.127	Not significant	ANCOVA	0.382	Not significant
Indian Springs	Load (mg/L)	ANCOVA	0.839	Not significant	Linear Model	0.025	Pre-GSI > Post-AI^2

Figure 37. Summary statistics of TAN in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

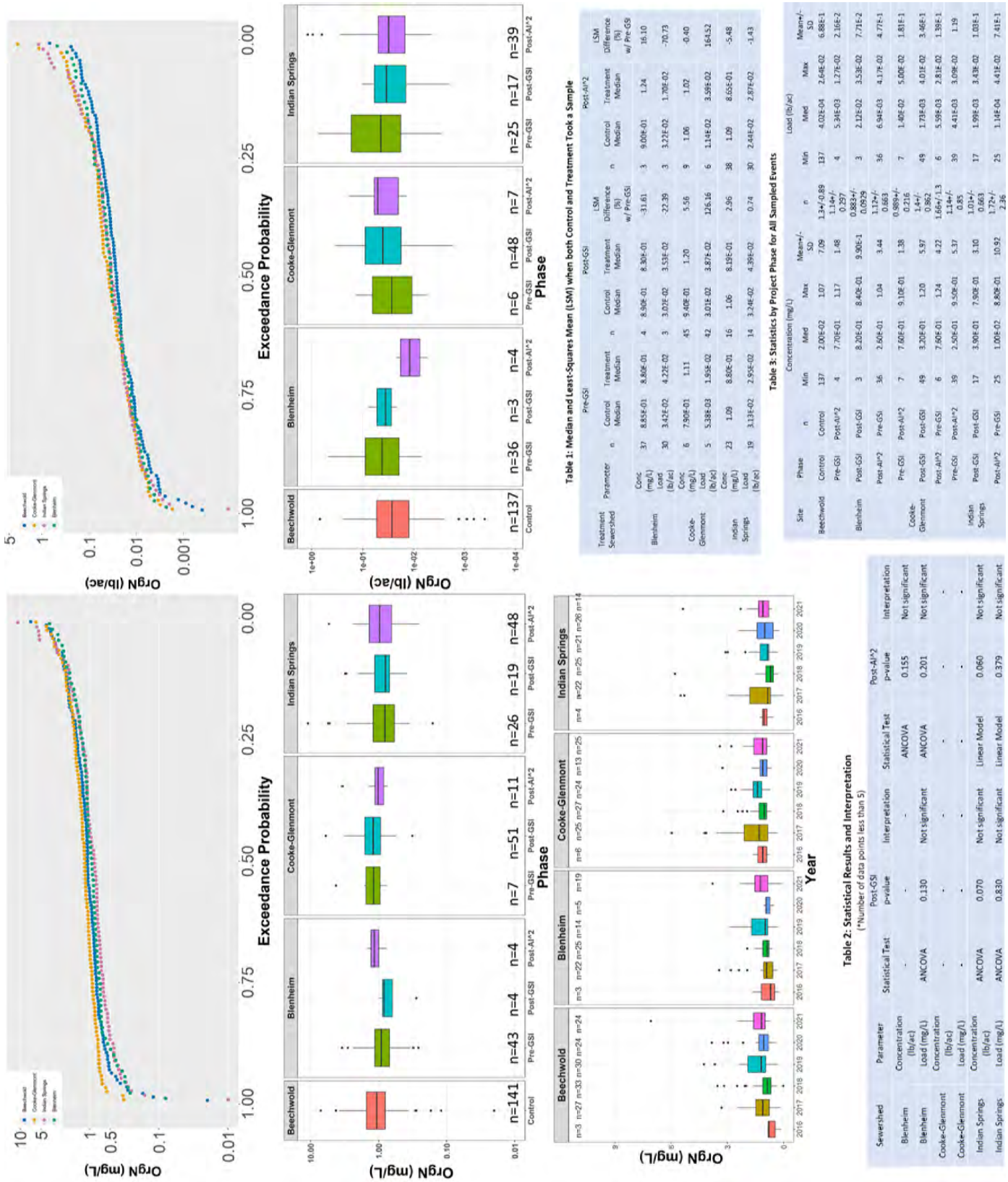


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	n	Pre-GSI Control Median	Post-GSI Treatment n	Post-GSI Treatment Median	Post-GSI Control n	Post-GSI Control Median	Post-Al^2 LSM Difference (%) w/ Pre-GSI	Post-Al^2 Treatment n	Post-Al^2 Control Median	Post-Al^2 Treatment Median	LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (mg/L)	37	8.85E-01	30	8.80E-01	4	8.90E-01	8.30E-01	-31.61	3	9.00E-01	1.24	16.10
	Load (lb/ac)	30	3.42E-02	30	4.22E-02	3	3.02E-02	3.53E-02	-22.39	3	3.22E-02	1.78E-02	-70.73
Cooke-Glenmont	Conc (mg/L)	6	7.90E-01	6	1.11	45	9.40E-01	1.20	5.56	9	1.06	1.02	-0.40
	Load (lb/ac)	5	5.38E-03	5	1.95E-02	42	3.01E-02	3.87E-02	126.16	6	1.14E-02	3.39E-02	164.52
Indian Springs	Conc (mg/L)	23	1.09	19	8.80E-01	16	1.06	8.19E-01	2.96	38	1.09	8.65E-01	-5.48
	Load (lb/ac)	19	3.13E-02	19	2.95E-02	14	3.24E-02	4.39E-02	0.74	30	2.44E-02	2.87E-02	-1.43

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (mg/L) Min	Med	Max	Mean+/-SD	n	Min	Load (lb/ac) Med	Max	Mean+/-SD
Beechwold	Control	137	2.00E-02	1.07	7.09	1.3+/-0.89	137	4.02E-04	2.64E-02	6.88E-1	
	Pre-GSI	4	7.70E-01	1.17	1.48	1.14+/-0.297	4	5.34E-03	1.27E-02	2.16E-2	
Blenheim	Post-GSI	3	8.20E-01	8.40E-01	9.90E-1	0.883+/-0.0929	3	2.12E-02	3.53E-02	7.71E-2	
	Post-Al^2	36	2.60E-01	1.04	3.44	1.12+/-0.663	36	6.94E-03	4.17E-02	4.77E-1	
	Pre-GSI	7	7.60E-01	9.10E-01	1.38	0.989+/-0.216	7	1.40E-02	5.00E-02	1.81E-1	
Cooke-Glenmont	Post-GSI	49	3.20E-01	1.20	5.97	1.4+/-0.982	49	1.73E-03	4.01E-02	3.46E-1	
	Post-Al^2	6	7.60E-01	1.24	4.22	1.66+/-1.3	6	5.99E-03	2.81E-02	1.39E-1	
	Pre-GSI	39	2.50E-01	9.50E-01	5.37	1.14+/-0.85	39	4.41E-03	3.09E-02	1.19	
Indian Springs	Post-GSI	17	3.90E-01	7.90E-01	3.10	1.01+/-0.663	17	1.99E-03	3.43E-02	1.03E-1	
	Post-Al^2	25	1.00E-02	8.80E-01	10.92	1.72+/-2.36	25	1.14E-04	4.41E-02	7.41E-1	

Table 2: Statistical Results and Interpretation

(*Number of data points less than 5)

Sewershed	Parameter	Post-GSI Statistical Test	Post-GSI p-value	Post-GSI Interpretation	Post-Al^2 Statistical Test	Post-Al^2 p-value	Post-Al^2 Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.155	Not significant
Blenheim	Load (mg/L)	ANCOVA	0.130	Not significant	ANCOVA	0.201	Not significant
Cooke-Glenmont	Concentration (lb/ac)	-	-	-	-	-	-
Cooke-Glenmont	Load (mg/L)	-	-	-	-	-	-
Indian Springs	Concentration (lb/ac)	ANCOVA	0.070	Not significant	Linear Model	0.060	Not significant
Indian Springs	Load (mg/L)	ANCOVA	0.830	Not significant	Linear Model	0.379	Not significant

Figure 38. Summary statistics of OrgN in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

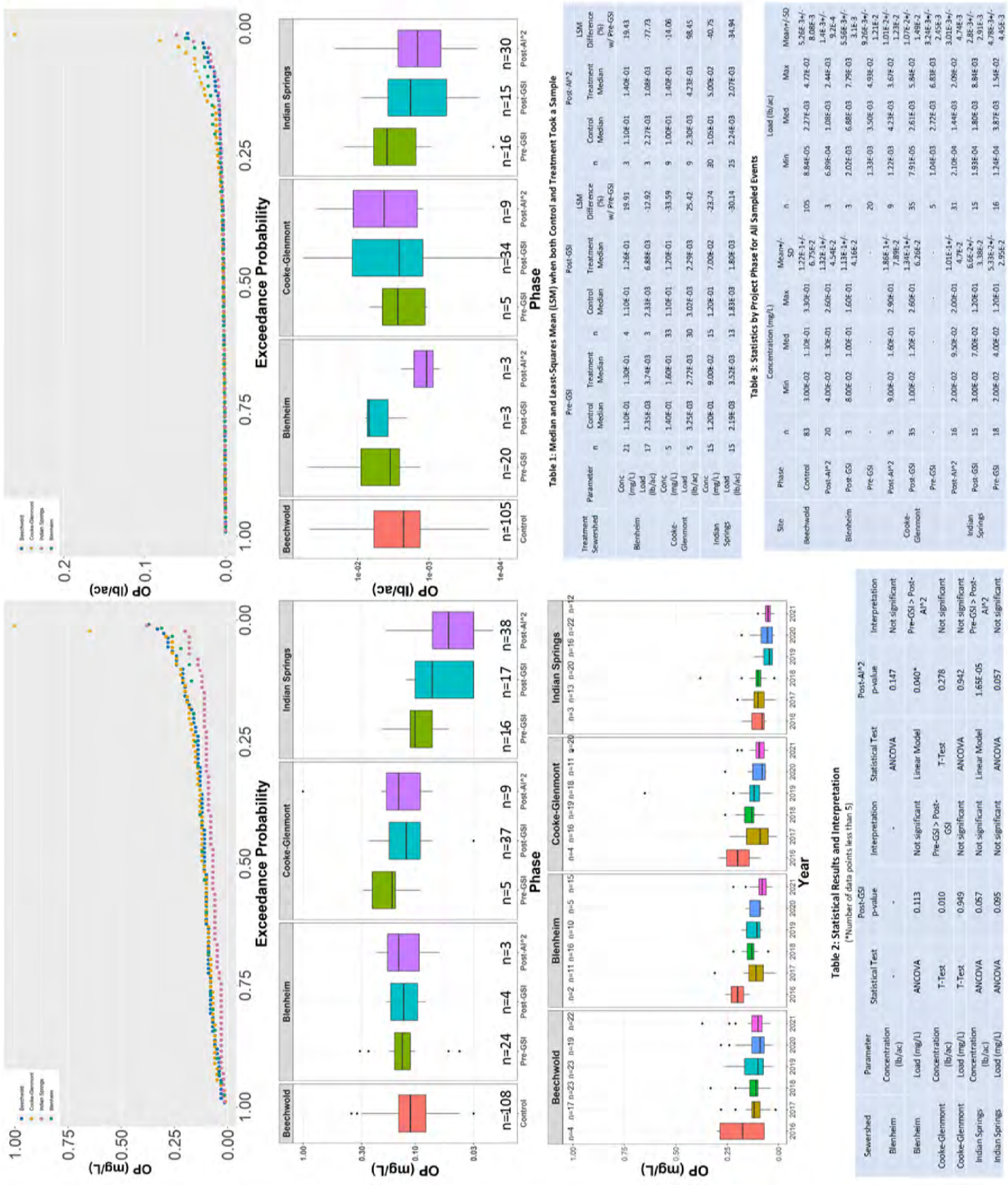


Figure 39. Summary statistics of OP in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

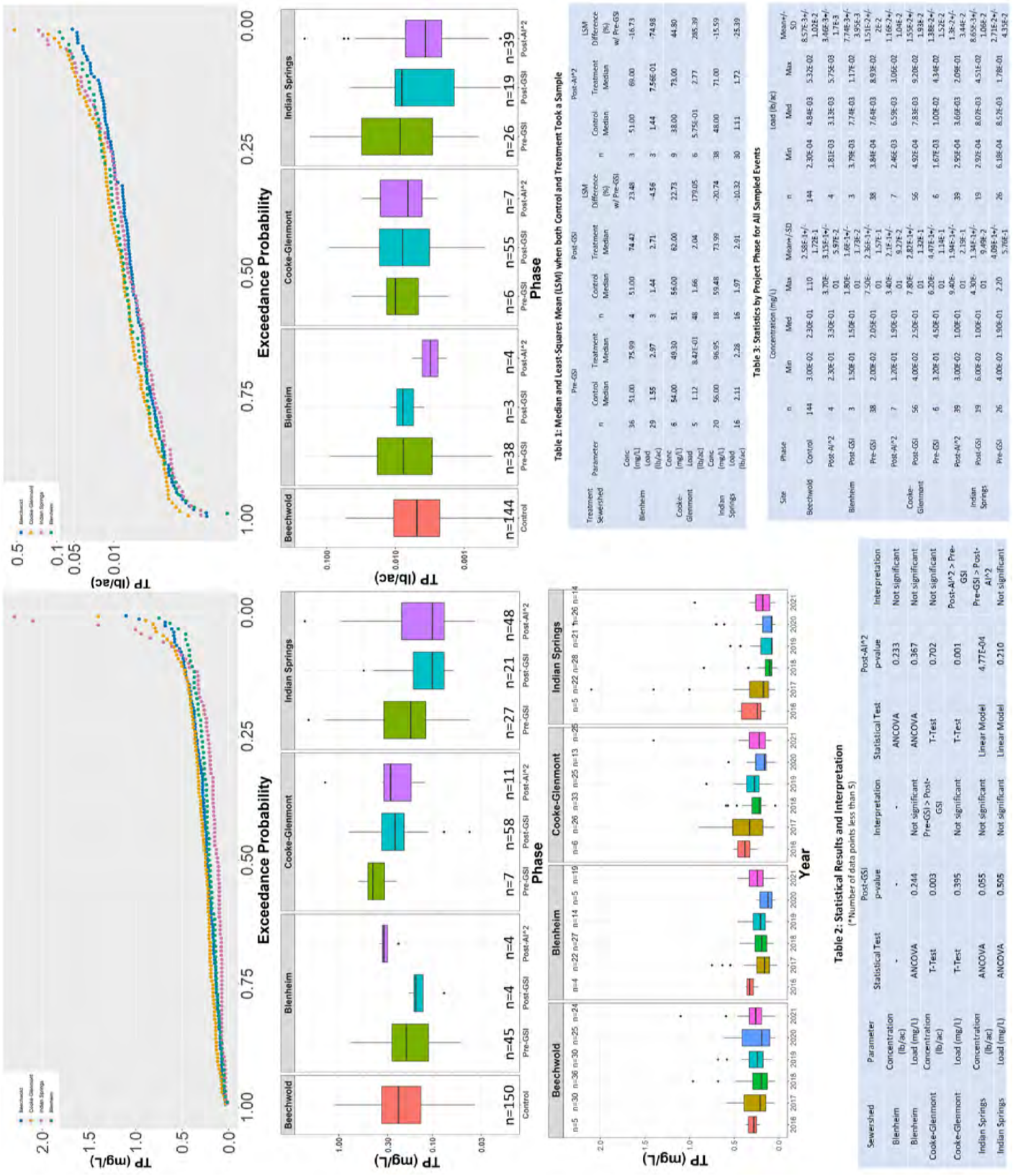


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	n	Pre-GSI Control Median	Pre-GSI Treatment Median	n	Post-GSI Control Median	Post-GSI Treatment Median	LSM Difference (%) w/ Pre-GSI	n	Post-AI^2 Control Median	Post-AI^2 Treatment Median	LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (mg/L)	36	51.00	75.99	4	51.00	74.47	23.48	3	51.00	69.00	-16.73
	Load (lb/ac)	29	1.55	2.97	3	1.44	2.71	-4.56	3	1.44	7.56E-01	-74.98
Cooke-Glenmont	Conc (mg/L)	6	54.00	49.30	51	56.00	62.00	22.73	9	38.00	73.00	44.80
	Load (lb/ac)	5	1.12	8.42E-01	48	1.66	2.04	179.05	6	5.75E-01	2.77	285.39
Indian Springs	Conc (mg/L)	20	56.00	96.95	18	59.48	73.99	-20.74	38	48.00	71.00	-15.59
	Load (lb/ac)	16	2.11	2.28	16	1.97	2.01	-10.32	30	1.11	1.72	-25.39

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (mg/L) Min	Med	Max	Mean+/-SD	n	Load (lb/ac) Min	Med	Max	Mean+/-SD
Beechwold	Control	144	3.00E-02	2.30E-01	1.10	2.58E-1+/-1.72E-1	144	2.30E-04	4.84E-03	5.32E-02	8.57E-3+/-1.02E-2
	Post-AI^2	4	2.30E-01	3.30E-01	3.70E-01	3.15E-1+/-5.97E-2	4	1.81E-03	3.13E-03	5.75E-03	3.40E-3+/-1.7E-3
	Post-GSI	3	1.50E-01	1.50E-01	1.80E-01	1.6E-1+/-1.73E-2	3	3.79E-03	7.74E-03	1.17E-02	7.74E-3+/-3.95E-3
	Pre-GSI	38	2.00E-02	2.05E-01	7.50E-01	2.36E-1+/-1.57E-1	38	3.84E-04	7.64E-03	8.93E-02	1.51E-2+/-2E-2
	Post-AI^2	7	1.20E-01	1.90E-01	3.40E-01	2.1E-1+/-9.27E-2	7	2.46E-03	6.59E-03	3.06E-02	1.16E-2+/-1.04E-2
Cooke-Glenmont	Post-GSI	56	4.00E-02	2.50E-01	7.80E-01	2.82E-1+/-1.32E-1	56	4.92E-04	7.83E-03	9.20E-02	1.55E-2+/-1.93E-2
	Pre-GSI	6	3.20E-01	4.50E-01	6.20E-01	4.47E-1+/-1.14E-1	6	1.67E-03	1.00E-02	4.34E-02	1.38E-2+/-1.52E-2
	Post-AI^2	39	3.00E-02	1.00E-01	9.40E-01	1.94E-1+/-2.19E-1	39	2.95E-04	3.66E-03	2.09E-01	1.3E-2+/-3.44E-2
Indian Springs	Post-GSI	19	6.00E-02	1.00E-01	4.30E-01	1.34E-1+/-9.49E-2	19	2.93E-04	8.02E-03	4.51E-02	8.65E-3+/-1.06E-2
	Pre-GSI	26	4.00E-02	1.90E-01	2.20	4.09E-1+/-5.76E-1	26	6.18E-04	8.52E-03	1.78E-01	2.71E-2+/-4.35E-2

Table 2: Statistical Results and Interpretation

(*Number of data points less than 5)

Sewershed	Parameter	Post-GSI Statistical Test	Post-GSI p-value	Post-GSI Interpretation	Post-AI^2 Statistical Test	Post-AI^2 p-value	Post-AI^2 Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.233	Not significant
Blenheim	Load (mg/L)	ANCOVA	0.244	Not significant	ANCOVA	0.367	Not significant
Cooke-Glenmont	Concentration (lb/ac)	T-Test	0.003	Pre-GSI > Post-GSI	T-Test	0.702	Not significant
Cooke-Glenmont	Load (mg/L)	T-Test	0.395	Not significant	T-Test	0.001	Post-AI^2 > Pre-GSI
Indian Springs	Concentration (lb/ac)	ANCOVA	0.055	Not significant	Linear Model	4.77E-04	Pre-GSI > Post-AI^2
Indian Springs	Load (mg/L)	ANCOVA	0.505	Not significant	Linear Model	0.210	Not significant

Figure 40. Summary statistics of TP in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

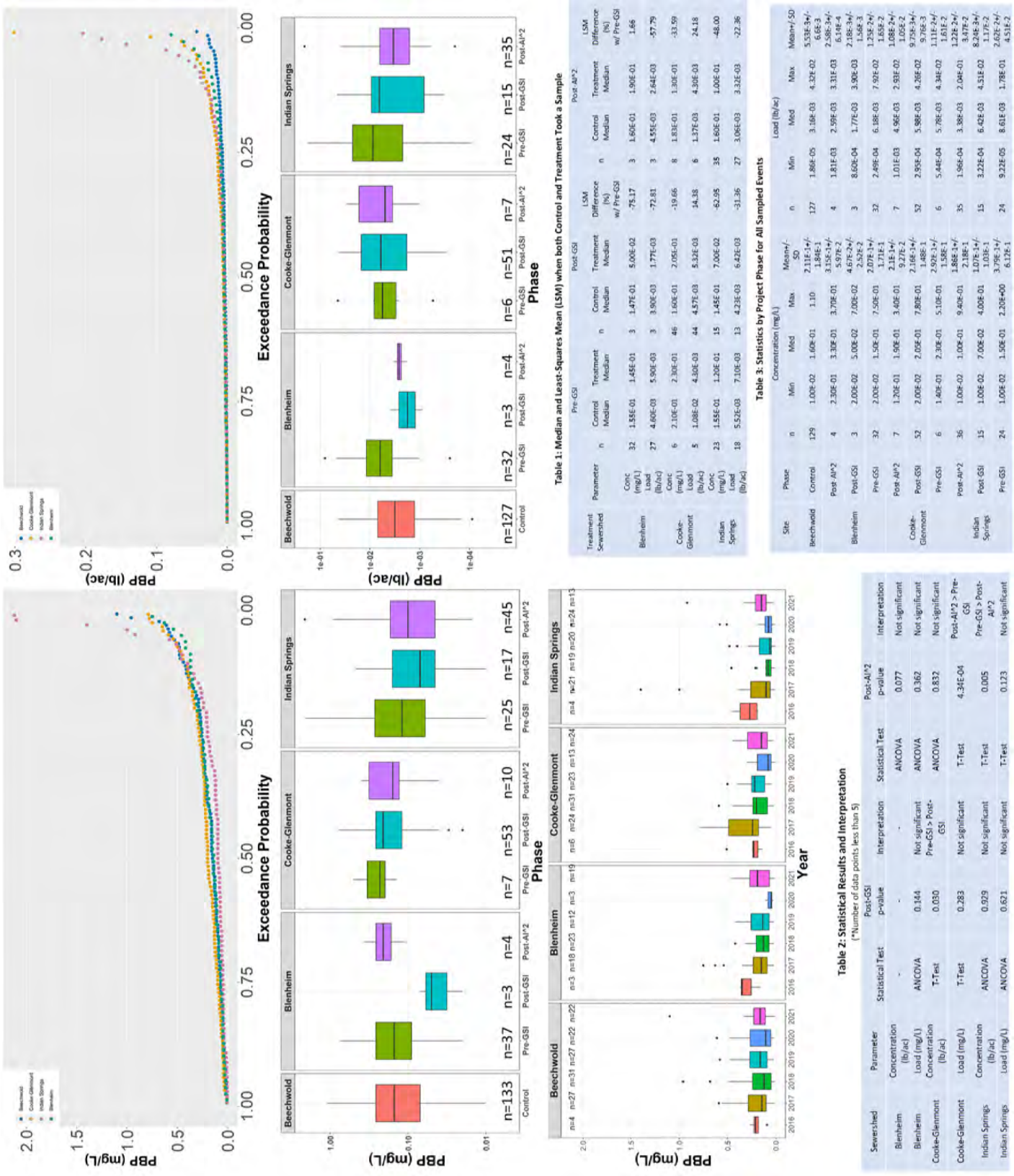


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	n	Pre-GSI Control Median	Pre-GSI Treatment Median	n	Post-GSI Control Median	Post-GSI Treatment Median	LSM Difference (%) w/ Pre-GSI	n	Post-Al^2 Control Median	Post-Al^2 Treatment Median	LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (mg/L)	32	1.55E-01	1.45E-01	3	1.47E-01	5.00E-02	-75.17	3	1.60E-01	1.90E-01	1.66
	Load (lb/ac)	27	4.60E-03	5.90E-03	3	3.90E-03	1.77E-03	-72.81	3	4.55E-03	2.64E-03	-57.79
Cooke-Glenmont	Conc (mg/L)	6	2.10E-01	2.30E-01	46	1.60E-01	2.05E-01	-19.66	8	1.83E-01	1.30E-01	-33.59
	Load (lb/ac)	5	1.08E-02	4.30E-03	44	4.57E-03	5.32E-03	14.38	6	1.37E-03	4.30E-03	24.18
Indian Springs	Conc (mg/L)	23	1.55E-01	1.20E-01	15	1.45E-01	7.00E-02	-62.95	35	1.60E-01	1.00E-01	-48.00
	Load (lb/ac)	18	5.52E-03	7.10E-03	13	4.23E-03	6.42E-03	-31.36	27	3.06E-03	3.32E-03	-22.36

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (mg/L) Min	Med	Max	Mean+/-SD	n	Load (lb/ac) Min	Med	Max	Mean+/-SD
Beechwold	Control	129	1.00E-02	1.60E-01	1.10	2.11E-1+/-1.84E-1	127	1.86E-05	3.18E-03	4.32E-02	5.53E-3+/-6.6E-3
	Post-Al^2	4	2.30E-01	3.30E-01	3.70E-01	3.15E-1+/-5.97E-2	4	1.81E-03	2.59E-03	3.31E-03	2.56E-3+/-6.14E-4
Blenheim	Post-GSI	3	2.00E-02	5.00E-02	7.00E-02	4.67E-2+/-2.52E-2	3	8.60E-04	1.77E-03	3.90E-03	2.18E-3+/-1.56E-3
	Pre-GSI	32	2.00E-02	1.50E-01	7.50E-01	2.07E-1+/-1.71E-1	32	2.49E-04	6.18E-03	7.92E-02	1.25E-2+/-1.65E-2
	Post-Al^2	7	1.20E-01	1.90E-01	3.40E-01	2.1E-1+/-9.27E-2	7	1.01E-03	4.96E-03	2.93E-02	1.08E-2+/-1.05E-2
Cooke-Glenmont	Post-GSI	52	2.00E-02	2.05E-01	7.80E-01	2.16E-1+/-1.48E-1	52	2.93E-04	5.98E-03	4.26E-02	9.75E-3+/-9.76E-3
	Pre-GSI	6	1.40E-01	2.30E-01	5.10E-01	2.92E-1+/-1.58E-1	6	5.44E-04	5.78E-03	4.34E-02	1.11E-2+/-1.61E-2
	Post-Al^2	36	1.00E-02	1.00E-01	9.40E-01	1.86E-1+/-2.18E-1	35	1.96E-04	3.38E-03	2.04E-01	1.22E-2+/-3.47E-2
Indian Springs	Post-GSI	15	1.00E-02	7.00E-02	4.00E-01	1.07E-1+/-1.03E-1	15	3.22E-04	6.42E-03	4.51E-02	8.24E-3+/-1.17E-2
	Pre-GSI	24	1.00E-02	1.50E-01	2.20E+00	3.79E-1+/-6.12E-1	24	9.22E-05	8.61E-03	1.78E-01	2.62E-2+/-4.51E-2

Table 2: Statistical Results and Interpretation

(*Number of data points less than 5)

Sewershed	Parameter	Post-GSI Statistical Test	Post-GSI p-value	Post-GSI Interpretation	Post-Al^2 Statistical Test	Post-Al^2 p-value	Post-Al^2 Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.077	Not significant
Blenheim	Load (mg/L)	ANCOVA	0.144	Not significant	ANCOVA	0.362	Not significant
Cooke-Glenmont	Concentration (lb/ac)	T-Test	0.030	Pre-GSI > Post-GSI	ANCOVA	0.832	Not significant
Cooke-Glenmont	Load (mg/L)	T-Test	0.283	Not significant	T-Test	4.34E-04	Post-Al^2 > Pre-GSI
Indian Springs	Concentration (lb/ac)	ANCOVA	0.929	Not significant	T-Test	0.005	Pre-GSI > Post-Al^2
Indian Springs	Load (mg/L)	ANCOVA	0.621	Not significant	T-Test	0.123	Not significant

Figure 41. Summary statistics of PBP in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

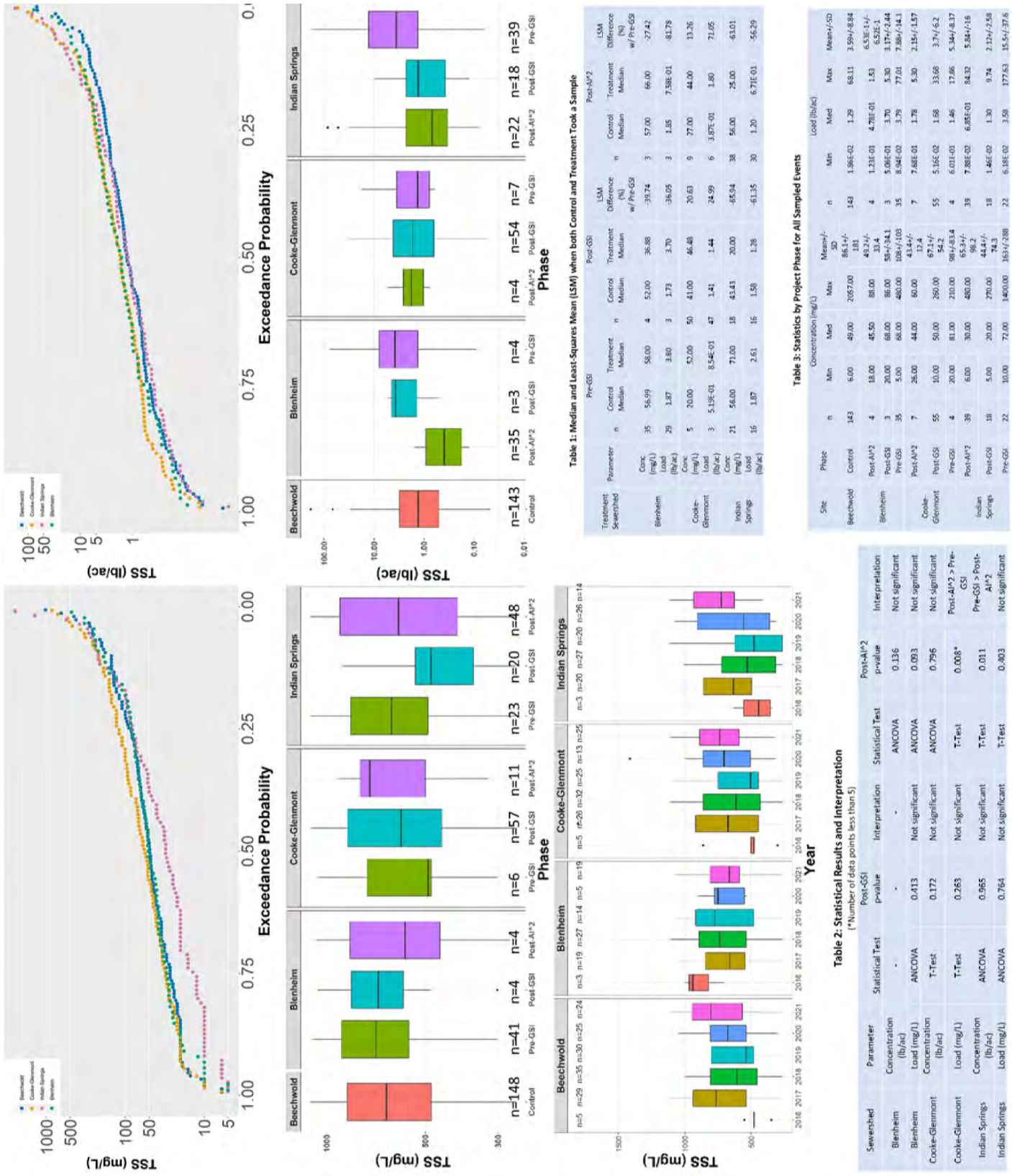


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	n	Pre-GSI Control Median	Post-GSI Treatment Median	n	Post-GSI Control Median	Post-GSI LSM Difference (%) w/ Pre-GSI	n	Post-AI^2 Control Median	Post-AI^2 Treatment Median	LSM Difference (%) w/ Pre-GSI
Blenheim	Conc. (mg/L)	35	56.99	58.00	4	52.00	-39.74	3	57.00	66.00	-27.42
	Load (lb/ac)	29	1.87	3.80	3	1.73	3.70	3	1.85	7.58E-01	-81.78
Cooke-Glenmont	Conc. (mg/L)	5	20.00	52.00	50	41.00	46.48	9	27.00	44.00	13.26
	Load (lb/ac)	3	5.19E-01	8.54E-01	47	1.41	1.44	6	3.87E-01	1.80	71.05
Indian Springs	Conc. (mg/L)	21	56.00	71.00	18	43.43	20.00	38	56.00	25.00	-63.01
	Load (lb/ac)	16	1.87	2.61	16	1.58	1.28	30	1.20	6.71E-01	-56.29

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (mg/L) Min	Med	Max	Mean+/-SD	n	Load (lb/ac) Min	Med	Max	Mean+/-SD
Beechwold	Control	143	6.00	49.00	2057.00	86.1+/-181	143	1.98E-02	1.29	68.11	3.59+/-8.84
Blenheim	Post-AI^2	4	18.00	45.50	88.00	49.2+/-33.4	4	1.23E-01	4.78E-01	1.53	6.53E-1+/-6.52E-1
	Post-GSI	3	20.00	68.00	86.00	58+/-34.1	3	5.09E-01	3.70	5.30	3.17+/-2.44
	Pre-GSI	35	5.00	88.00	480.00	108+/-103	35	8.94E-02	3.79	77.01	7.88+/-14.1
Cooke-Glenmont	Post-AI^2	7	26.00	44.00	60.00	43.4+/-12.4	7	7.68E-01	1.78	5.30	2.15+/-1.57
	Post-GSI	55	10.00	50.00	260.00	67.1+/-54.2	55	5.16E-02	1.68	33.68	3.7+/-6.2
	Pre-GSI	4	20.00	81.00	210.00	98+/-83.4	4	6.01E-01	1.46	17.86	5.34+/-8.37
Indian Springs	Post-AI^2	39	6.00	30.00	480.00	65.3+/-98.2	39	7.88E-02	6.85E-01	84.32	5.84+/-16
	Post-GSI	18	5.00	20.00	270.00	44.4+/-74.3	18	1.46E-02	1.30	9.74	2.12+/-2.58
	Pre-GSI	22	10.00	72.00	1400.00	163+/-288	22	6.18E-02	3.58	177.63	15.5+/-37.6

Table 2: Statistical Results and Interpretation

(*Number of data points less than 5)

Sewershed	Parameter	Statistical Test	Post-GSI p-value	Interpretation	Statistical Test	Post-AI^2 p-value	Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.136	Not significant
Blenheim	Load (mg/L)	ANCOVA	0.413	Not significant	ANCOVA	0.093	Not significant
Cooke-Glenmont	Concentration (lb/ac)	T-Test	0.172	Not significant	ANCOVA	0.796	Not significant
Cooke-Glenmont	Load (mg/L)	T-Test	0.263	Not significant	T-Test	0.008*	Post-AI^2 > Pre-GSI
Indian Springs	Concentration (lb/ac)	ANCOVA	0.965	Not significant	T-Test	0.011	Pre-GSI > Post-AI^2
Indian Springs	Load (mg/L)	ANCOVA	0.764	Not significant	T-Test	0.403	Not significant

Figure 42. Summary statistics of TSS in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

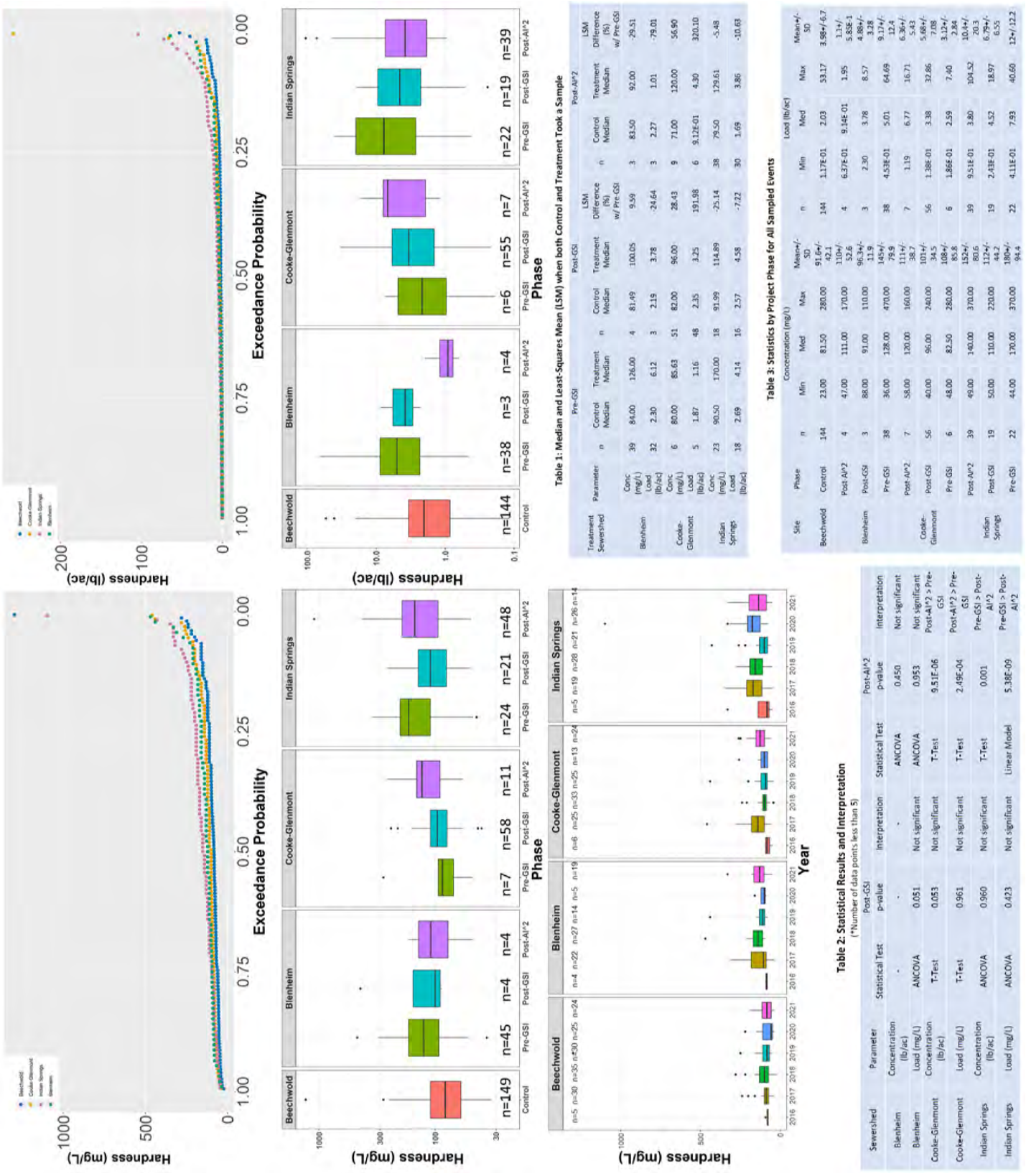


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	n	Pre-GSI Control Median	Post-GSI Treatment Median	n	Control Median	LSM Difference (%) w/ Pre-GSI	n	Post-AI^2 Control Median	Treatment Median	LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (mg/L)	39	84.00	126.00	4	81.49	100.05	9.59	3	83.50	92.00	-29.51
	Load (lb/ac)	32	2.30	6.12	3	2.19	3.78	-24.64	3	2.27	1.01	-79.01
Cooke-Glenmont	Conc (mg/L)	6	80.00	85.63	51	82.00	96.00	28.43	9	71.00	120.00	56.90
	Load (lb/ac)	5	1.87	1.16	48	2.35	3.25	191.98	6	9.12E-01	4.30	320.10
Indian Springs	Conc (mg/L)	23	90.50	170.00	18	91.99	114.89	-25.14	38	79.50	129.61	-5.48
	Load (lb/ac)	18	2.69	4.14	16	2.57	4.58	-7.22	30	1.69	3.86	-10.63

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (mg/L) Min	Med	Max	Mean+/-SD	n	Load (lb/ac) Min	Med	Max	Mean+/-SD
Beechwold	Control	144	23.00	81.50	280.00	91.6+/-42.1	144	1.17E-01	2.03	53.17	3.58+/-6.7
	Post-AI^2	4	47.00	111.00	170.00	110+/-52.6	4	6.37E-01	9.14E-01	1.95	1.1+/-0.85E-1
Blenheim	Post-GSI	3	88.00	91.00	110.00	96.3+/-11.9	3	2.30	3.78	8.57	4.88+/-3.28
	Pre-GSI	38	36.00	128.00	470.00	145+/-79.9	38	4.53E-01	5.01	64.69	9.17+/-12.4
	Post-AI^2	7	58.00	120.00	160.00	111+/-38.7	7	1.19	6.77	16.71	6.36+/-5.43
Cooke-Glenmont	Post-GSI	56	40.00	96.00	240.00	101+/-34.5	56	1.38E-01	3.38	32.86	5.68+/-7.08
	Pre-GSI	6	48.00	82.50	280.00	108+/-85.8	6	1.86E-01	2.59	7.40	3.12+/-2.84
Indian Springs	Post-AI^2	39	49.00	140.00	370.00	152+/-80.6	39	9.51E-01	3.80	104.52	10.4+/-20.3
	Post-GSI	19	50.00	110.00	220.00	112+/-44.2	19	2.43E-01	4.52	18.97	6.75+/-6.55
	Pre-GSI	22	44.00	170.00	370.00	180+/-94.4	22	4.11E-01	7.93	40.60	12+/-12.2

Table 2: Statistical Results and Interpretation

(*Number of data points less than 5)

Sewershed	Parameter	Post-GSI Statistical Test	Post-GSI p-value	Post-GSI Interpretation	Post-AI^2 Statistical Test	Post-AI^2 p-value	Post-AI^2 Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.450	Not significant
Blenheim	Load (mg/L)	ANCOVA	0.051	Not significant	ANCOVA	0.953	Not significant
Cooke-Glenmont	Concentration (lb/ac)	T-Test	0.053	Not significant	T-Test	9.51E-06	Post-AI^2 > Pre-GSI
Cooke-Glenmont	Load (mg/L)	T-Test	0.961	Not significant	T-Test	2.49E-04	Post-AI^2 > Pre-GSI
Indian Springs	Concentration (lb/ac)	ANCOVA	0.960	Not significant	T-Test	0.001	Pre-GSI > Post-AI^2
Indian Springs	Load (mg/L)	ANCOVA	0.423	Not significant	Linear Model	5.38E-09	Pre-GSI > Post-AI^2

Figure 43. Summary statistics of Hardness in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

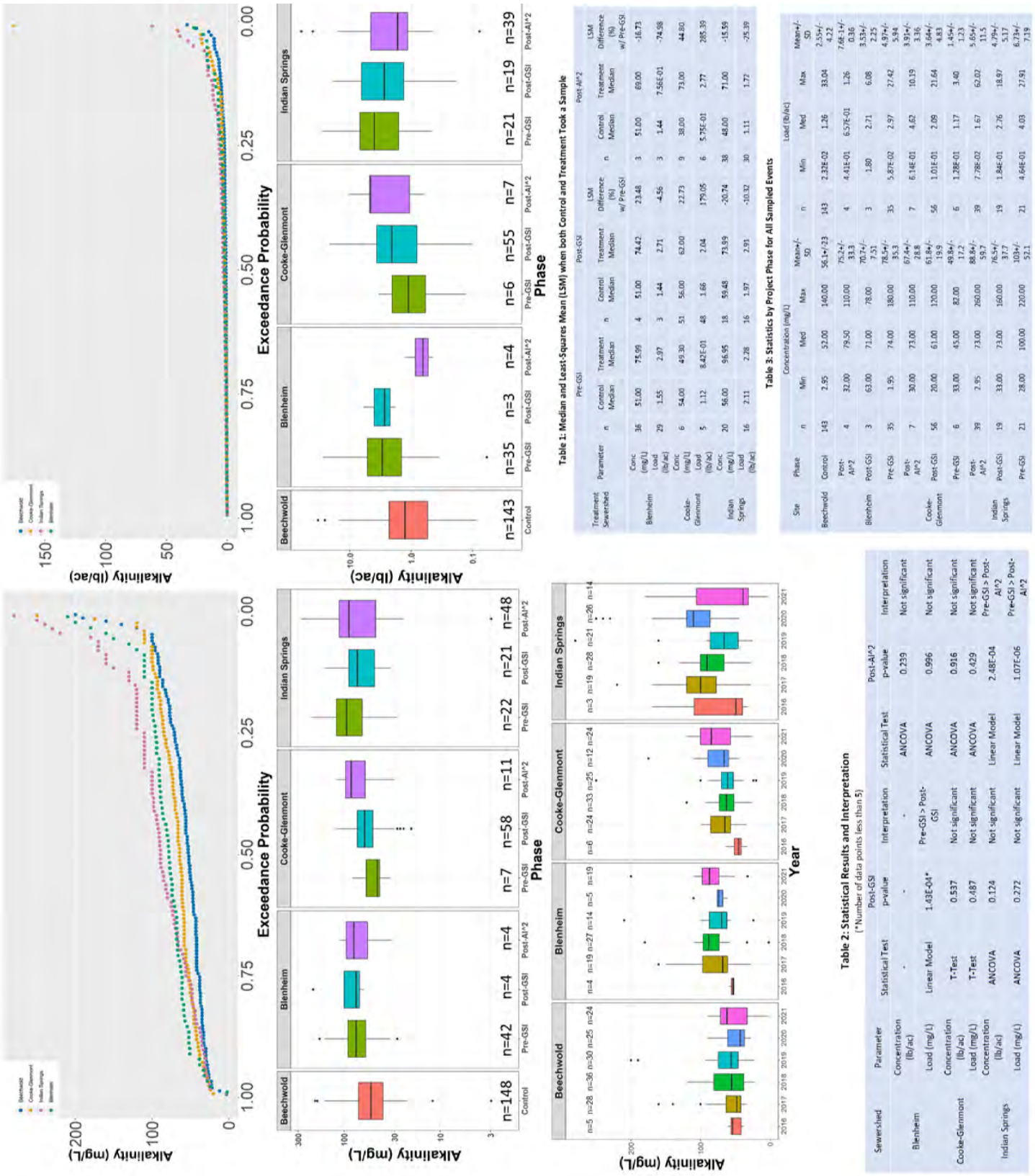


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	Pre-GSI n	Pre-GSI Control Median	Pre-GSI Treatment Median	Post-GSI n	Post-GSI Control Median	Post-GSI Treatment Median	Post-GSI LSM Difference (%) w/ Pre-GSI	Post-Al^2 n	Post-Al^2 Control Median	Post-Al^2 Treatment Median	Post-Al^2 LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (mg/L)	36	51.00	75.99	4	51.00	74.42	23.48	3	51.00	69.00	-16.73
	Load (lb/ac)	29	1.55	2.97	3	1.44	2.71	-4.56	3	1.44	7.56E-01	-74.98
Cooke-Glenmont	Conc (mg/L)	6	54.00	49.30	51	56.00	62.00	22.73	9	38.00	73.00	44.80
	Load (lb/ac)	5	1.12	8.42E-01	48	1.66	2.04	179.05	6	5.75E-01	2.77	285.39
Indian Springs	Conc (mg/L)	20	56.00	96.95	18	59.48	73.99	-20.74	38	48.00	71.00	-15.59
	Load (lb/ac)	16	2.11	2.28	16	1.97	2.91	-10.32	30	1.11	1.72	-25.39

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	Concentration (mg/L) n	Min	Med	Max	Mean+/- SD	Load (lb/ac) n	Min	Med	Max	Mean+/- SD
Beechwold	Control	143	2.95	52.00	140.00	56.1+/-33	143	2.32E-02	1.26	33.04	2.55+/- 4.22
	Post-Al^2	4	32.00	79.50	110.00	75.2+/- 33.3	4	4.41E-01	6.57E-01	1.26	7.6E-1+/- 0.36
Blenheim	Post-GSI	3	63.00	71.00	78.00	70.7+/- 7.51	3	1.80	2.71	6.08	3.53+/- 2.25
	Pre-GSI	35	1.95	74.00	180.00	78.5+/- 35.3	35	5.87E-02	2.97	27.42	4.97+/- 5.94
	Post-Al^2	7	30.00	73.00	110.00	67.4+/- 28.8	7	6.14E-01	4.62	10.19	3.91+/- 3.36
Cooke-Glenmont	Post-GSI	56	20.00	61.00	120.00	61.8+/- 19.9	56	1.01E-01	2.09	21.64	3.64+/- 4.83
	Pre-GSI	6	33.00	45.00	82.00	49.8+/- 17.2	6	1.28E-01	1.17	3.40	1.45+/- 1.23
	Post-Al^2	39	2.95	73.00	260.00	88.8+/- 59.7	39	7.78E-02	1.67	62.02	5.65+/- 11.5
Indian Springs	Post-GSI	19	33.00	73.00	160.00	76.5+/- 37.7	19	1.84E-01	2.76	18.97	4.79+/- 5.17
	Pre-GSI	21	28.00	100.00	220.00	103+/- 52.1	21	4.64E-01	4.03	27.91	6.73+/- 7.19

Table 2: Statistical Results and Interpretation

(*Number of data points less than 5)

Sewershed	Parameter	Post-GSI Statistical Test	Post-GSI p-value	Post-GSI Interpretation	Post-Al^2 Statistical Test	Post-Al^2 p-value	Post-Al^2 Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.239	Not significant
	Load (mg/L)	Linear Model	1.43E-04*	Pre-GSI > Post-GSI	ANCOVA	0.996	Not significant
Cooke-Glenmont	Concentration (lb/ac)	T-Test	0.537	Not significant	ANCOVA	0.916	Not significant
	Load (mg/L)	T-Test	0.487	Not significant	ANCOVA	0.429	Not significant
Indian Springs	Concentration (lb/ac)	ANCOVA	0.124	Not significant	Linear Model	2.48E-04	Pre-GSI > Post-Al^2
	Load (mg/L)	ANCOVA	0.272	Not significant	Linear Model	1.07E-06	Pre-GSI > Post-Al^2

Figure 44. Summary statistics of Alkalinity in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

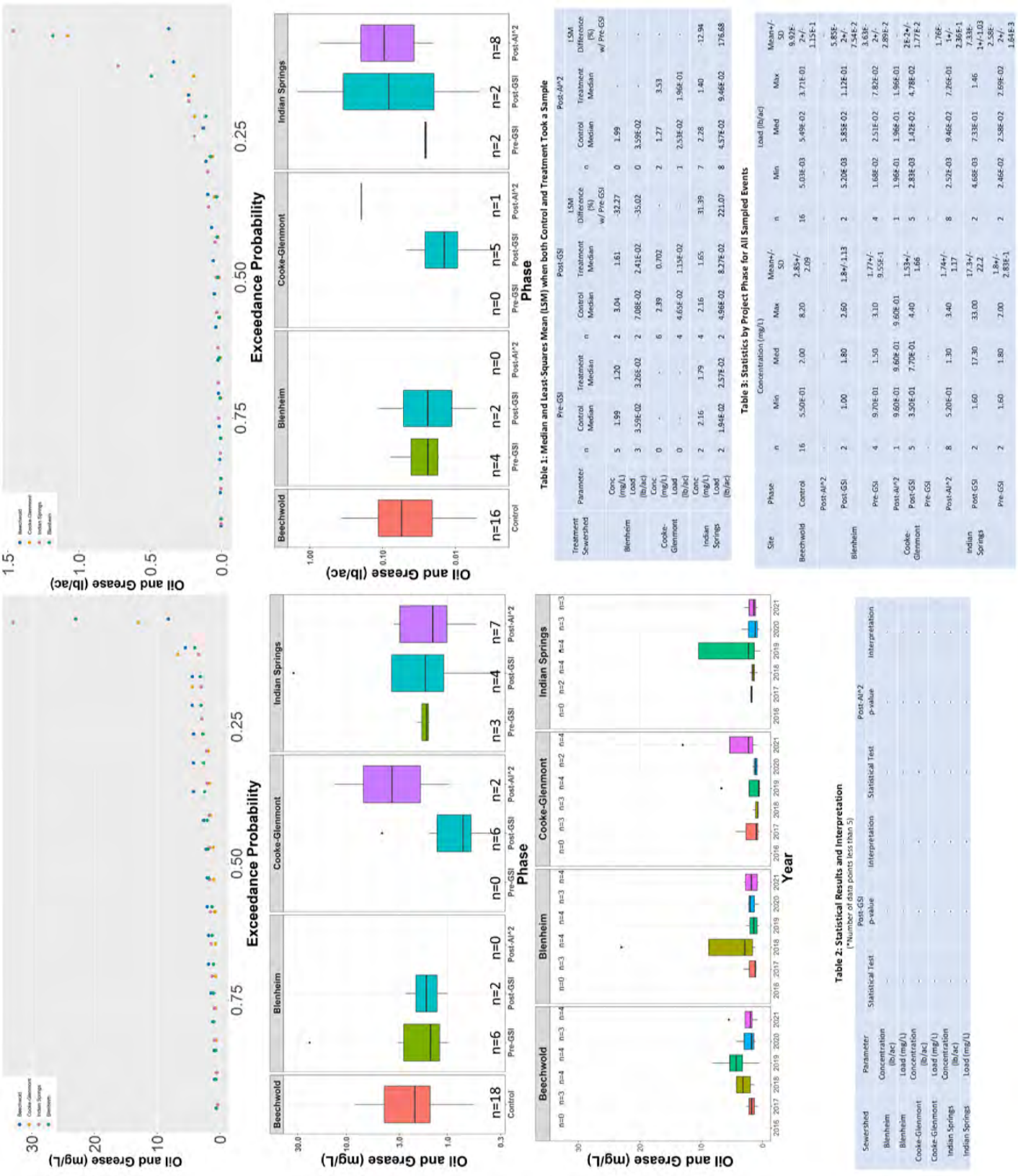


Figure 45. Summary statistics of Oil and Grease in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

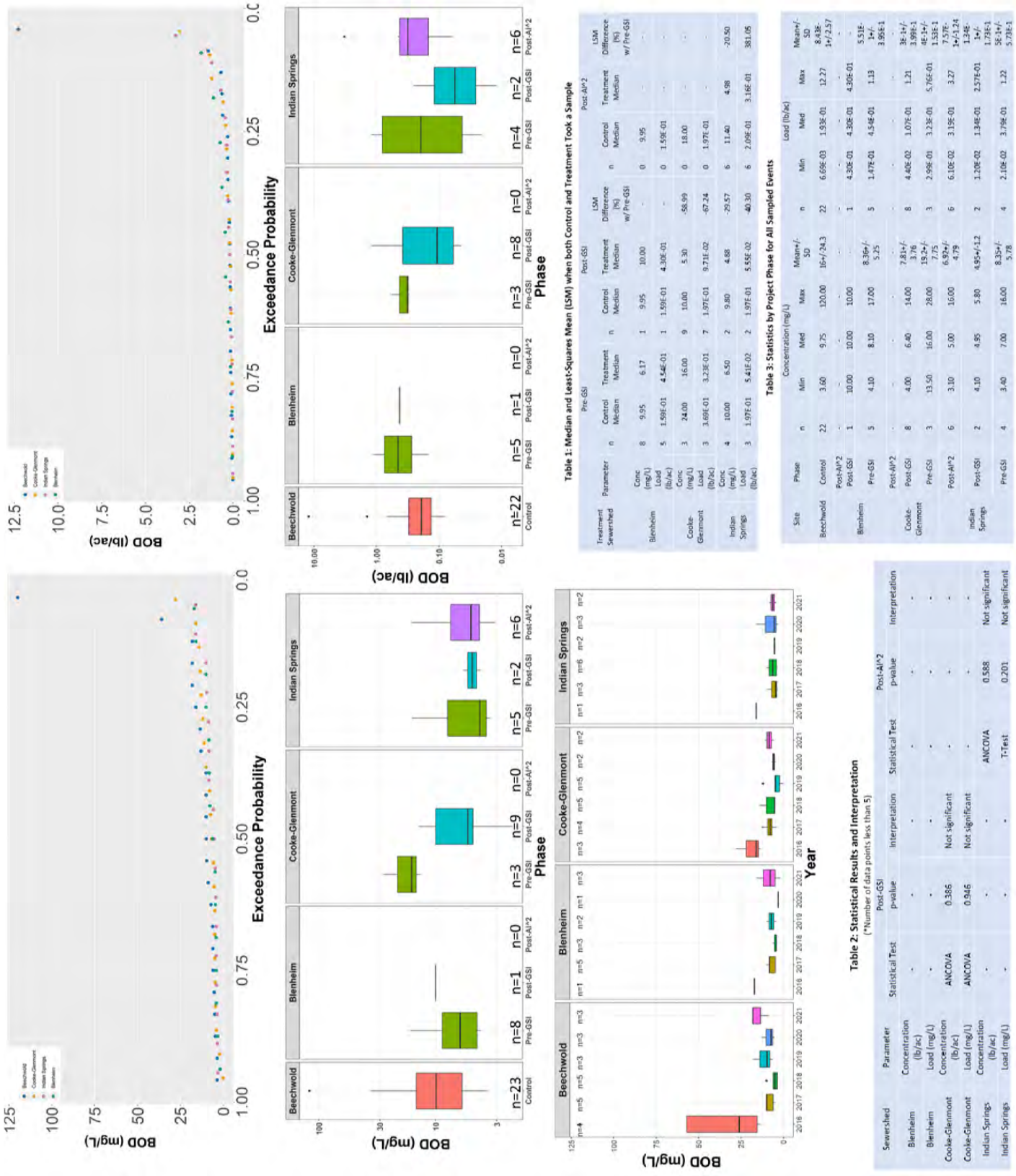


Figure 46. Summary statistics of BOD in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

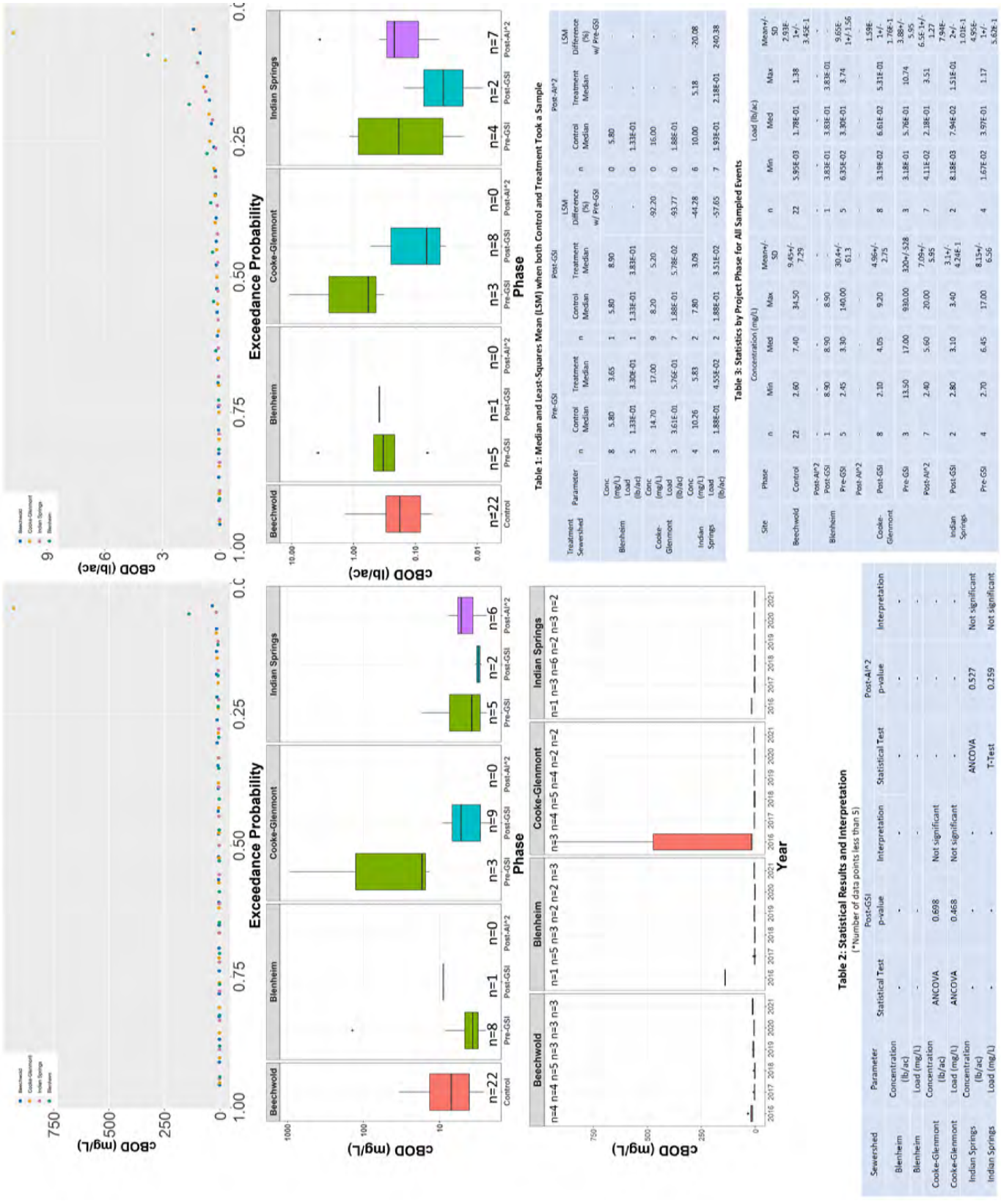


Figure 47. Summary statistics of cBOD in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

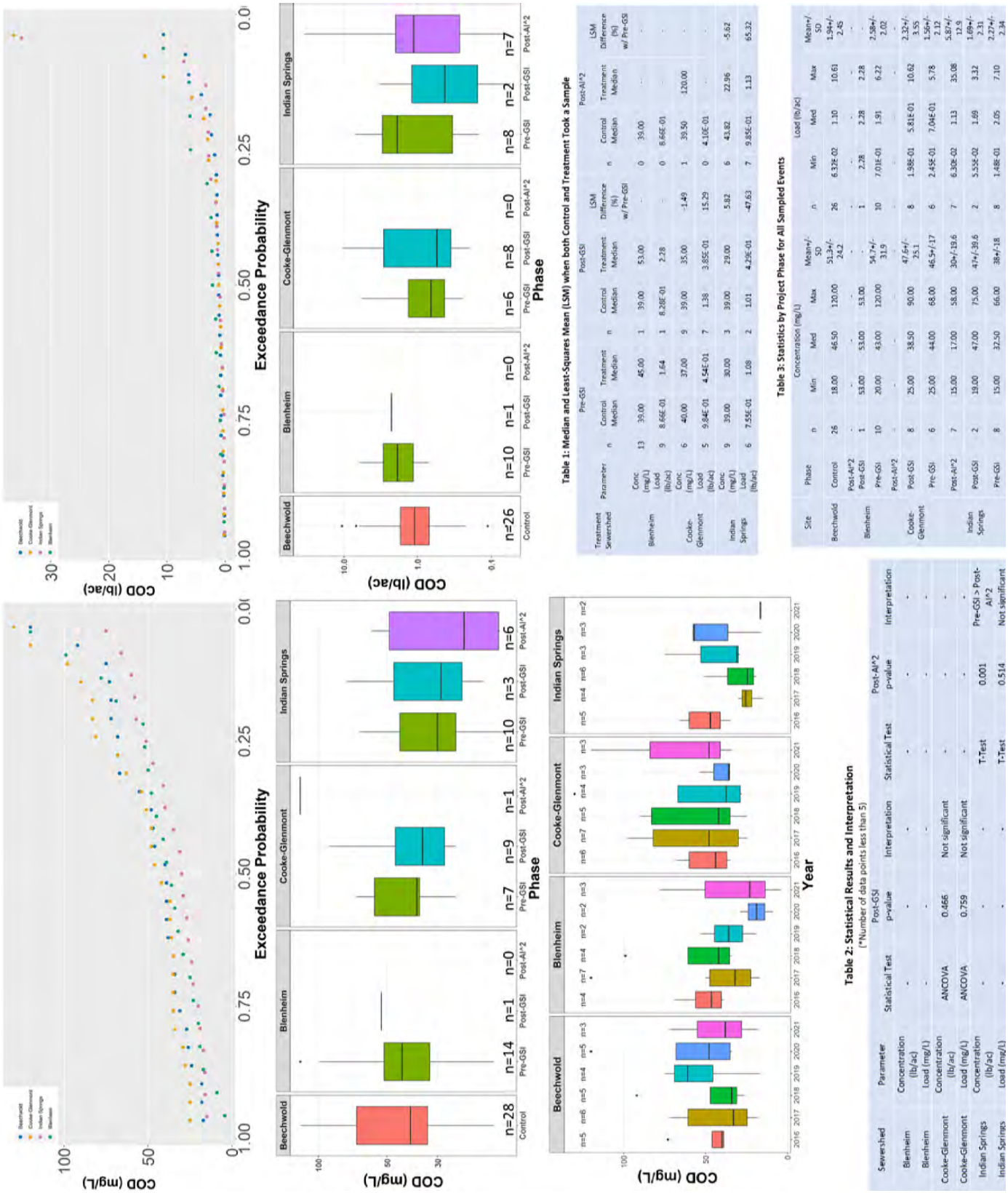


Figure 48. Summary statistics of COD in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

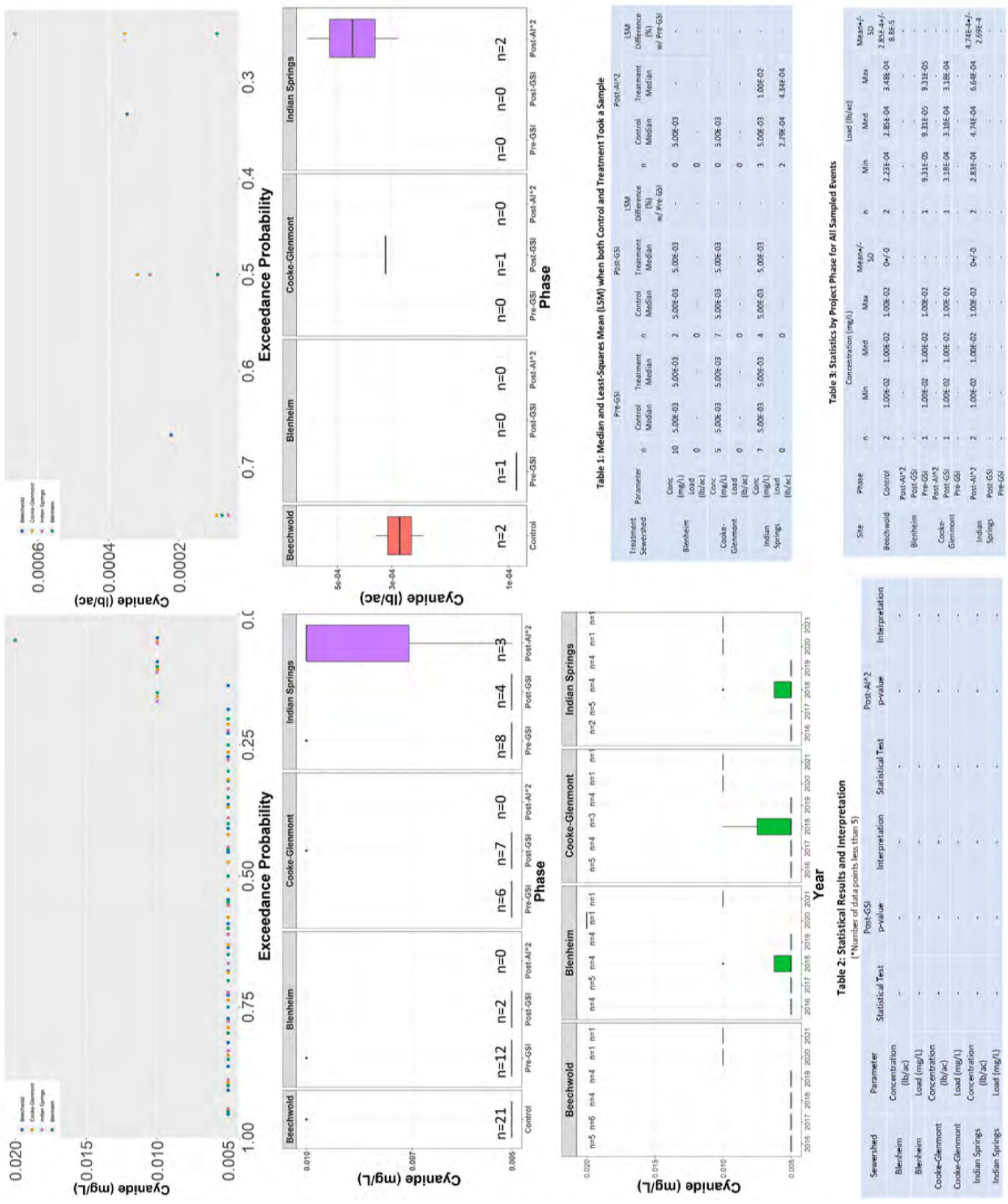


Figure 49. Summary statistics of Cyanide in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

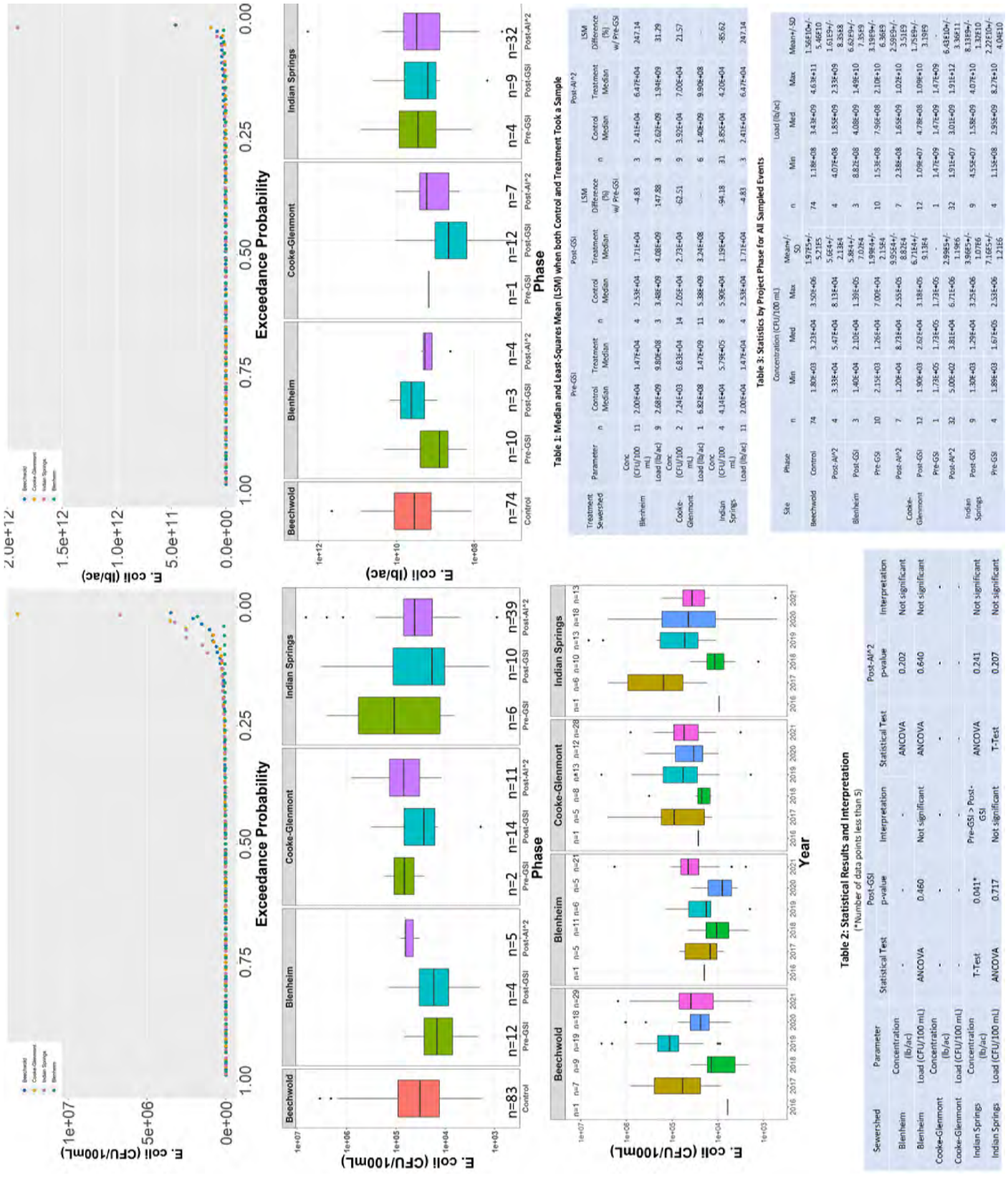


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	n	Pre-GSI Control Median	Pre-GSI Treatment Median	n	Post-GSI Control Median	Post-GSI Treatment Median	LSM Difference (%) w/ Pre-GSI	n	Post-AI^2 Control Median	Post-AI^2 Treatment Median	LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (CFU/100 mL)	11	2.00E+04	1.47E+04	4	2.53E+04	1.71E+04	-4.83	3	2.41E+04	6.47E+04	247.14
	Load (lb/ac)	9	2.68E+09	9.80E+08	3	3.48E+09	4.08E+09	147.88	3	2.62E+09	1.94E+09	31.29
Cooke-Glenmont	Conc (CFU/100 mL)	2	7.24E+03	6.83E+04	14	2.05E+04	2.73E+04	-62.51	9	3.92E+04	7.00E+04	21.57
	Load (lb/ac)	1	6.82E+08	1.47E+09	11	5.38E+09	3.24E+08		6	1.40E+09	9.90E+08	
Indian Springs	Conc (CFU/100 mL)	4	4.14E+04	5.79E+05	8	5.90E+04	1.39E+04	-94.18	31	3.85E+04	4.20E+04	-85.62
	Load (lb/ac)	11	2.00E+04	1.47E+04	4	2.53E+04	1.71E+04	-4.83	3	2.41E+04	6.47E+04	247.14

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (CFU/100 mL) Min	Med	Max	Mean+/- SD	n	Load (lb/ac) Min	Med	Max	Mean+/- SD
Beechwold	Control	74	1.80E+03	3.23E+04	3.50E+06	1.97E5+/- 5.21E5	74	1.18E+08	3.43E+09	4.63E+11	1.56E10+/- 5.46E10
	Post-AI^2	4	3.33E+04	5.47E+04	8.13E+04	5.66E4+/- 2.13E4	4	4.07E+08	1.85E+09	2.33E+09	1.61E9+/- 8.35E8
Blenheim	Post-GSI	3	1.40E+04	2.10E+04	1.39E+05	5.88E4+/- 7.02E4	3	8.82E+08	4.08E+09	1.49E+10	6.62E9+/- 7.35E9
	Pre-GSI	10	2.15E+03	1.26E+04	7.00E+04	1.99E4+/- 2.15E4	10	1.53E+08	7.96E+08	2.10E+10	3.19E9+/- 6.36E9
	Post-AI^2	7	1.20E+04	8.73E+04	2.55E+05	9.95E4+/- 8.82E4	7	2.38E+08	1.65E+09	1.02E+10	2.59E9+/- 3.51E9
Cooke-Glenmont	Post-GSI	12	1.90E+03	2.62E+04	3.18E+05	6.71E4+/- 9.13E4	12	1.09E+07	4.78E+08	1.09E+10	1.75E9+/- 3.19E9
	Pre-GSI	1	1.73E+05	1.73E+05	1.73E+05	-	1	1.47E+09	1.47E+09	1.47E+09	-
	Post-AI^2	32	5.00E+02	3.81E+04	6.71E+06	2.99E5+/- 1.19E6	32	1.91E+07	3.01E+09	1.91E+12	6.43E10+/- 3.39E11
Indian Springs	Post-GSI	9	1.30E+03	1.29E+04	3.25E+06	3.96E5+/- 1.07E6	9	4.55E+07	1.55E+09	4.07E+10	8.13E9+/- 1.32E10
	Pre-GSI	4	1.89E+03	1.67E+05	2.53E+06	7.16E5+/- 1.21E6	4	1.15E+08	2.95E+09	8.27E+10	2.22E10+/- 4.04E10

Table 2: Statistical Results and Interpretation
(*Number of data points less than 5)

Sewershed	Parameter	Post-GSI Statistical Test	Post-GSI p-value	Interpretation	Statistical Test	Post-AI^2 p-value	Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.202	Not significant
Blenheim	Load (CFU/100 mL)	ANCOVA	0.460	Not significant	ANCOVA	0.640	Not significant
Cooke-Glenmont	Concentration (lb/ac)	-	-	-	-	-	-
Cooke-Glenmont	Load (CFU/100 mL)	-	-	-	-	-	-
Indian Springs	Concentration (lb/ac)	T-Test	0.041*	Pre-GSI > Post-GSI	ANCOVA	0.241	Not significant
Indian Springs	Load (CFU/100 mL)	ANCOVA	0.717	Not significant	T-Test	0.207	Not significant

Figure 50. Summary statistics of *E. coli* in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

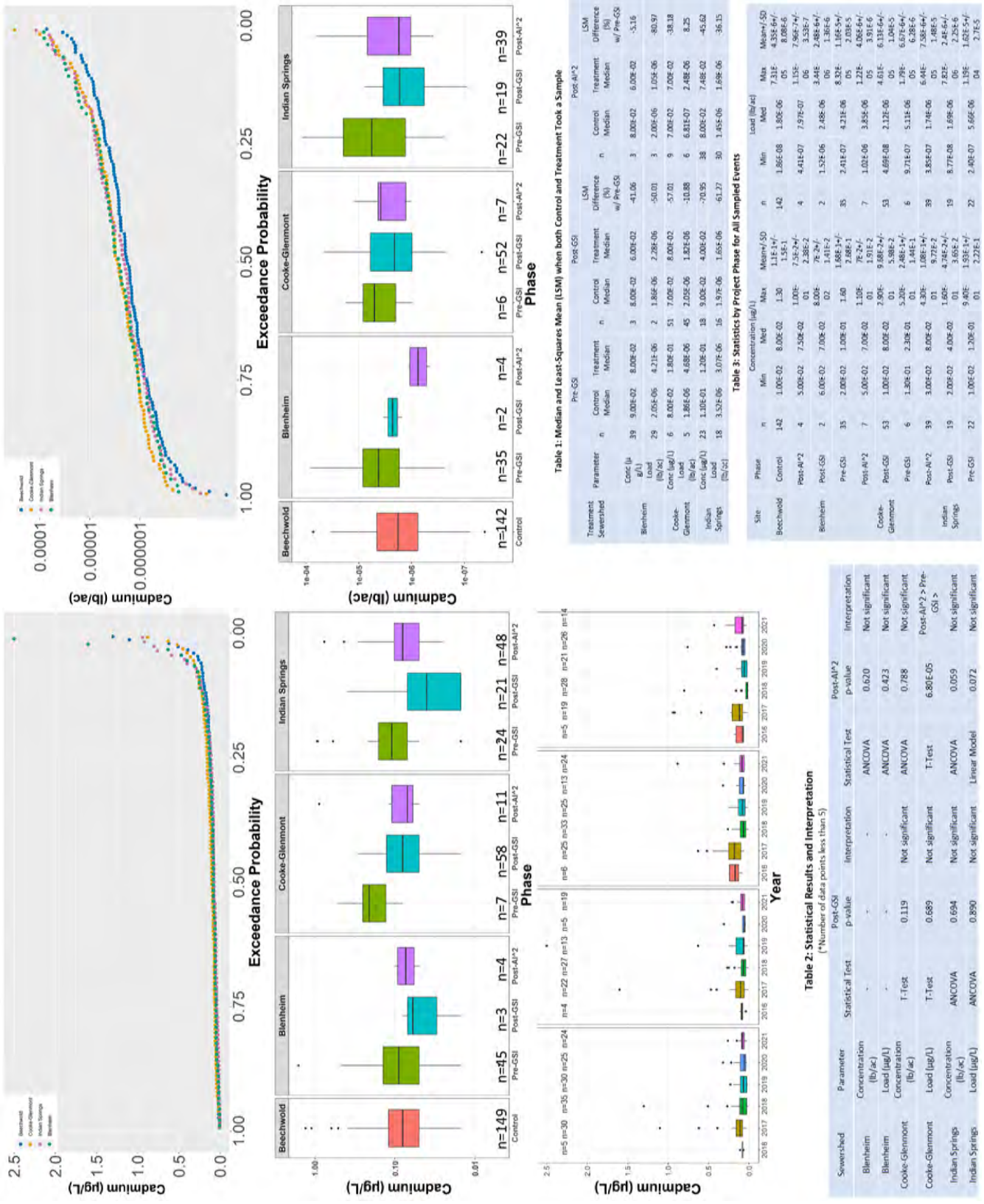


Figure 51. Summary statistics of Cadmium in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

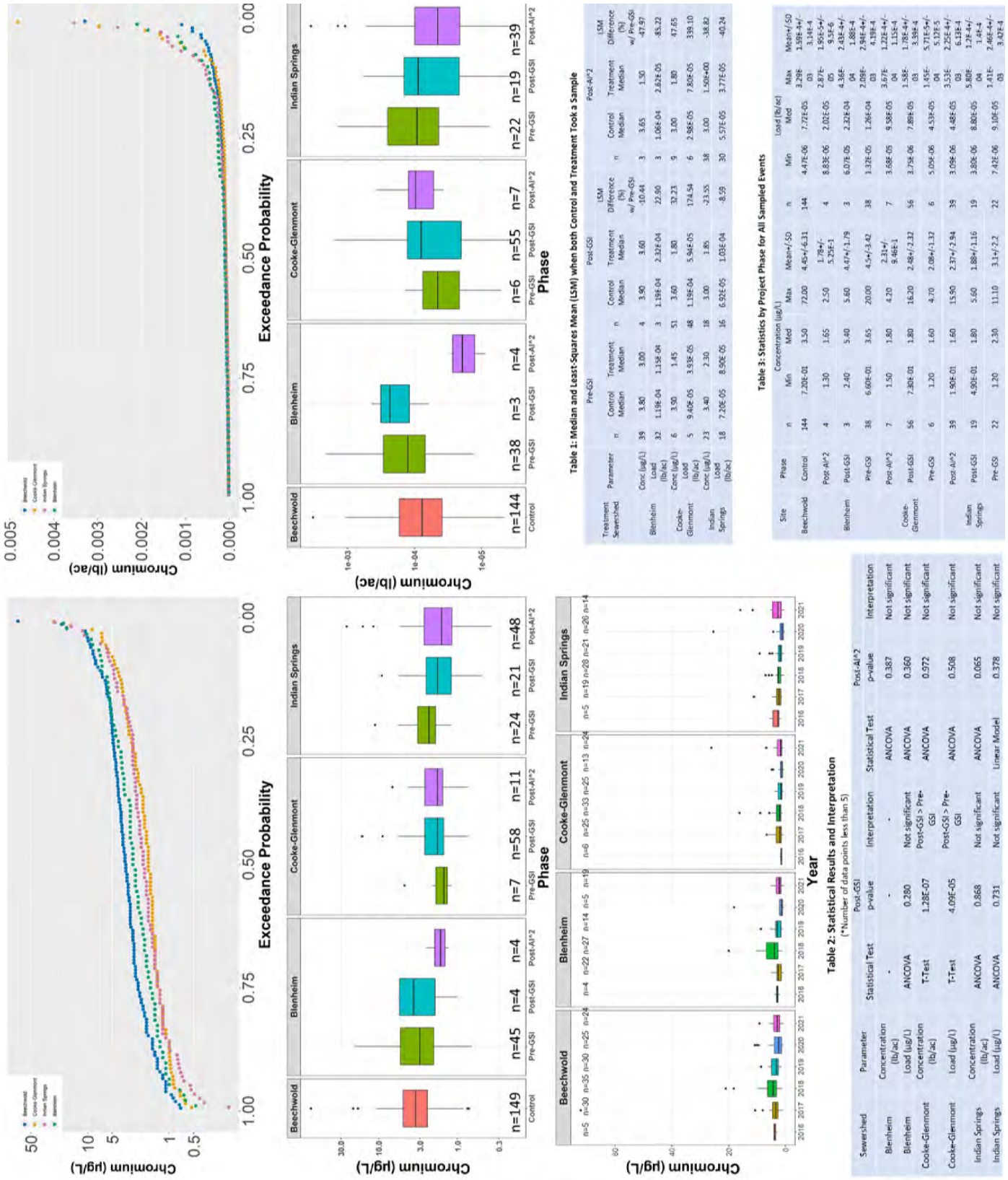


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	Pre-GSI n	Pre-GSI Control Median	Pre-GSI Treatment Median	Post-GSI n	Post-GSI Control Median	Post-GSI Treatment Median	Post-GSI LSM Difference (%) w/ Pre-GSI	Post-Al^2 n	Post-Al^2 Control Median	Post-Al^2 Treatment Median	Post-Al^2 LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (µg/L)	39	3.80	3.00	4	3.90	3.60	-10.44	3	3.65	1.50	-47.97
	Load (lb/ac)	32	1.19E-04	1.13E-04	3	1.19E-04	2.32E-04	22.60	3	1.06E-04	2.62E-05	-85.22
Cooke-Glenmont	Conc (µg/L)	6	3.90	1.45	51	3.60	1.80	32.23	9	3.00	1.80	47.65
	Load (lb/ac)	5	9.40E-05	3.93E-05	48	1.19E-04	5.94E-05	174.54	6	2.98E-05	7.80E-05	339.10
Indian Springs	Conc (µg/L)	23	3.40	2.30	18	3.00	1.85	-23.55	38	3.00	1.50E+00	-38.82
	Load (lb/ac)	18	7.20E-05	8.90E-05	16	6.92E-05	1.03E-04	-8.59	30	5.57E-05	3.77E-05	-40.24

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (µg/L) Min	Concentration (µg/L) Med	Concentration (µg/L) Max	Concentration (µg/L) Mean+/-SD	Load (lb/ac) n	Load (lb/ac) Min	Load (lb/ac) Med	Load (lb/ac) Max	Load (lb/ac) Mean+/-SD
Beechwold	Control	144	7.20E-01	3.50	72.00	4.45+/-6.31	144	4.47E-06	7.72E-05	3.29E-03	1.59E+/-3.14E-4
	Post-Al^2	4	1.30	1.65	2.50	1.78+/-5.25E-1	4	8.83E-06	2.02E-05	2.87E-05	1.95E+/-9.5E-6
Blenheim	Post-GSI	3	2.40	5.40	5.60	4.47+/-1.79	3	6.07E-05	2.32E-04	4.36E-04	2.43E+/-1.88E-4
	Pre-GSI	38	6.60E-01	3.65	20.00	4.5+/-3.42	38	1.32E-05	1.26E-04	2.09E-03	2.58E+/-4.19E-4
	Post-Al^2	7	1.50	1.80	4.20	2.31+/-9.46E-1	7	3.68E-05	9.58E-05	3.67E-04	1.22E+/-1.15E-4
Cooke-Glenmont	Post-GSI	56	7.30E-01	1.80	16.20	2.48+/-2.32	56	3.75E-06	7.89E-05	1.58E-03	1.78E+/-3.39E-4
	Pre-GSI	6	1.20	1.60	4.70	2.08+/-1.32	6	5.05E-06	4.53E-05	1.45E-04	5.71E-5+/-5.12E-5
	Post-Al^2	39	1.90E-01	1.60	15.90	2.37+/-2.94	39	3.09E-06	4.48E-05	3.53E-03	2.25E-4+/-6.13E-4
Indian Springs	Post-GSI	19	4.90E-01	1.80	5.60	1.88+/-1.16	19	3.80E-06	8.80E-05	5.80E-04	1.2E-4+/-1.4E-4
	Pre-GSI	22	1.20	2.30	11.10	3.1+/-2.2	22	7.42E-06	9.10E-05	1.41E-03	2.46E-4+/-3.42E-4

Table 2: Statistical Results and Interpretation
(*Number of data points less than 5)

Sewershed	Parameter	Post-GSI Statistical Test	Post-GSI p-value	Post-GSI Interpretation	Post-Al^2 Statistical Test	Post-Al^2 p-value	Post-Al^2 Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.387	Not significant
Blenheim	Load (µg/L)	ANCOVA	0.280	Not significant	ANCOVA	0.360	Not significant
Cooke-Glenmont	Concentration (lb/ac)	T-Test	1.23E-07	Post-GSI > Pre-GSI	ANCOVA	0.972	Not significant
Cooke-Glenmont	Load (µg/L)	T-Test	4.09E-05	Post-GSI > Pre-GSI	ANCOVA	0.508	Not significant
Indian Springs	Concentration (lb/ac)	ANCOVA	0.868	Not significant	ANCOVA	0.065	Not significant
Indian Springs	Load (µg/L)	ANCOVA	0.731	Not significant	Linear Model	0.378	Not significant

Figure 52. Summary statistics of Chromium in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

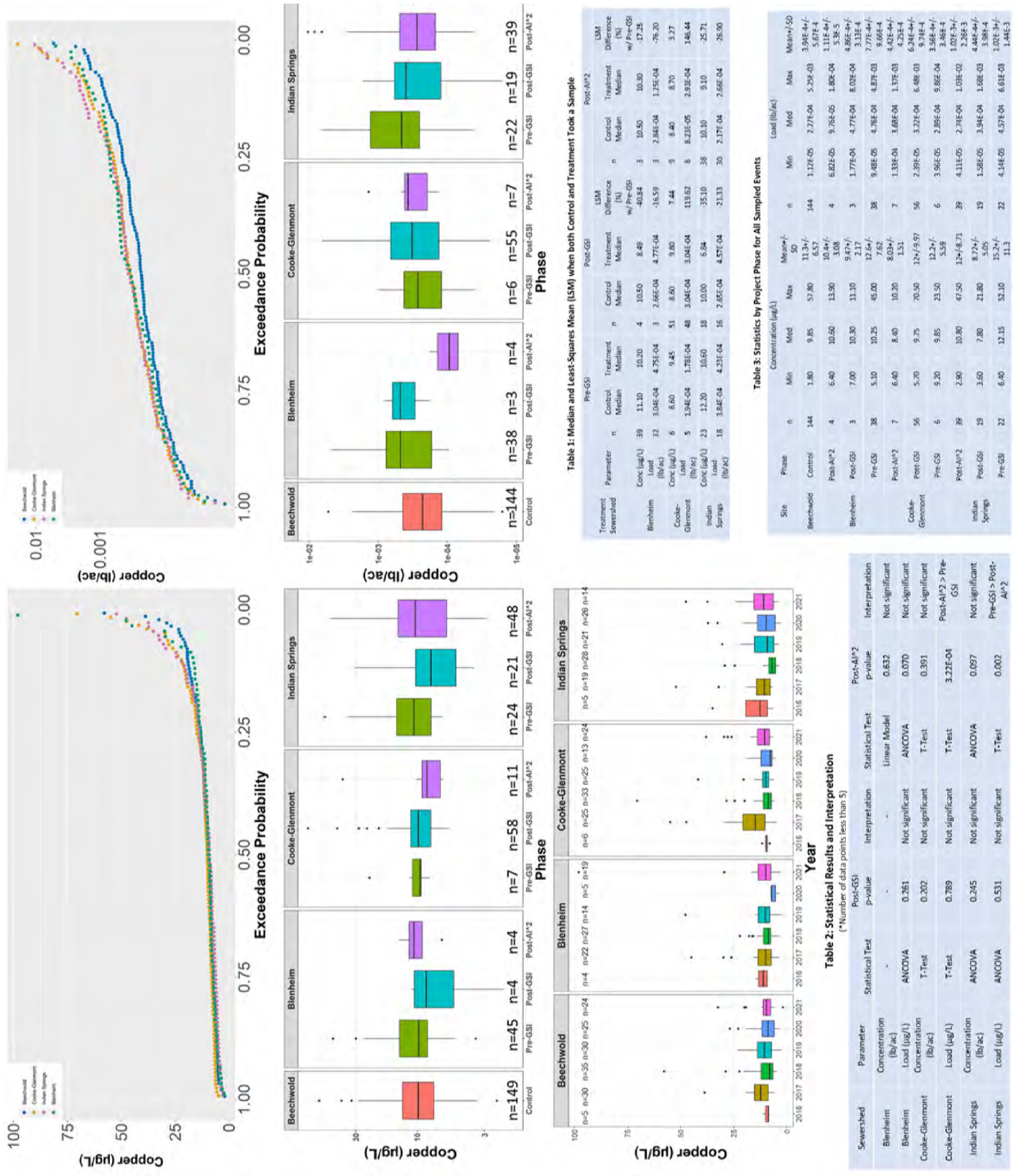


Figure 53. Summary statistics of Copper in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

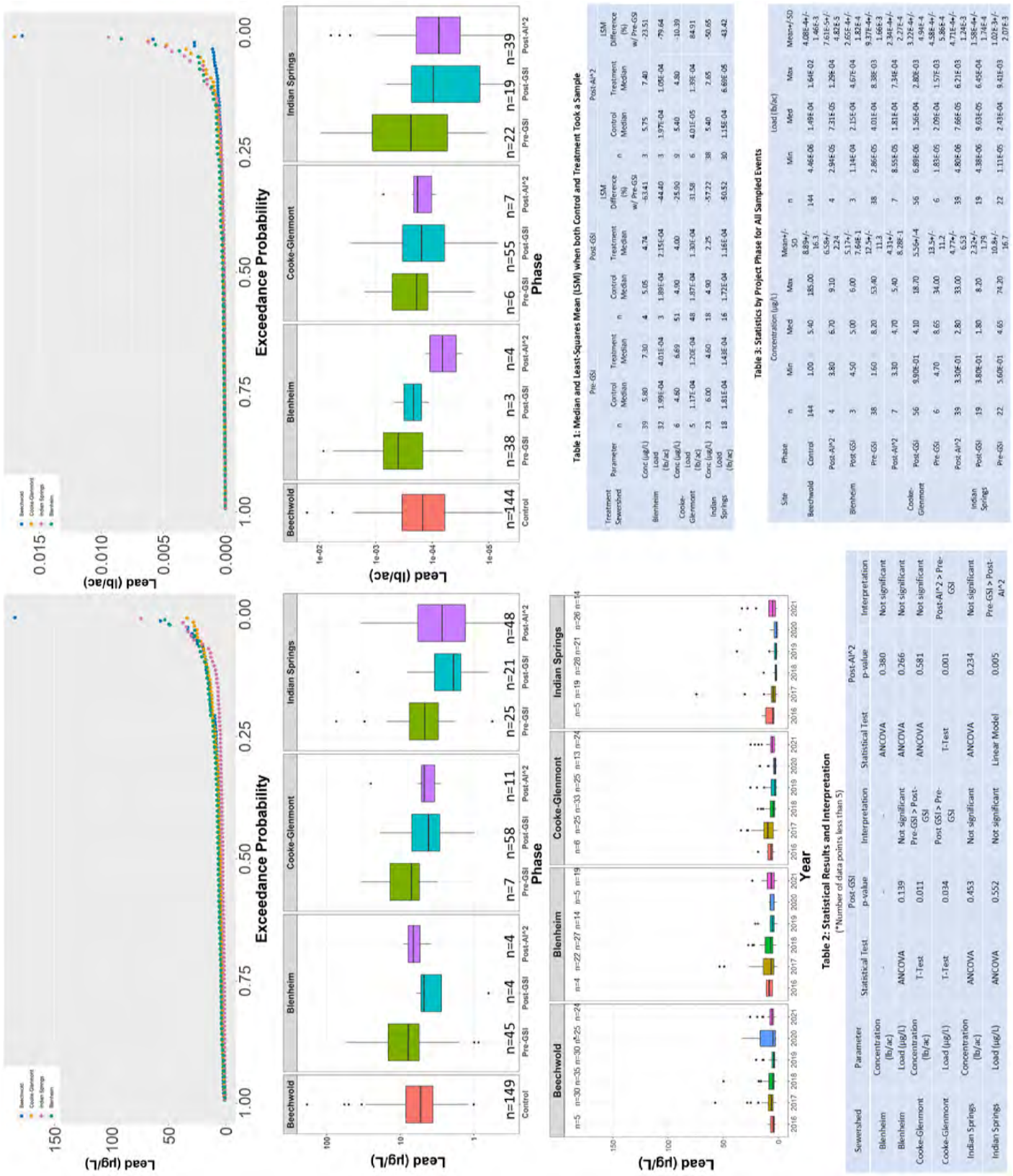


Figure 54. Summary statistics of Lead in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

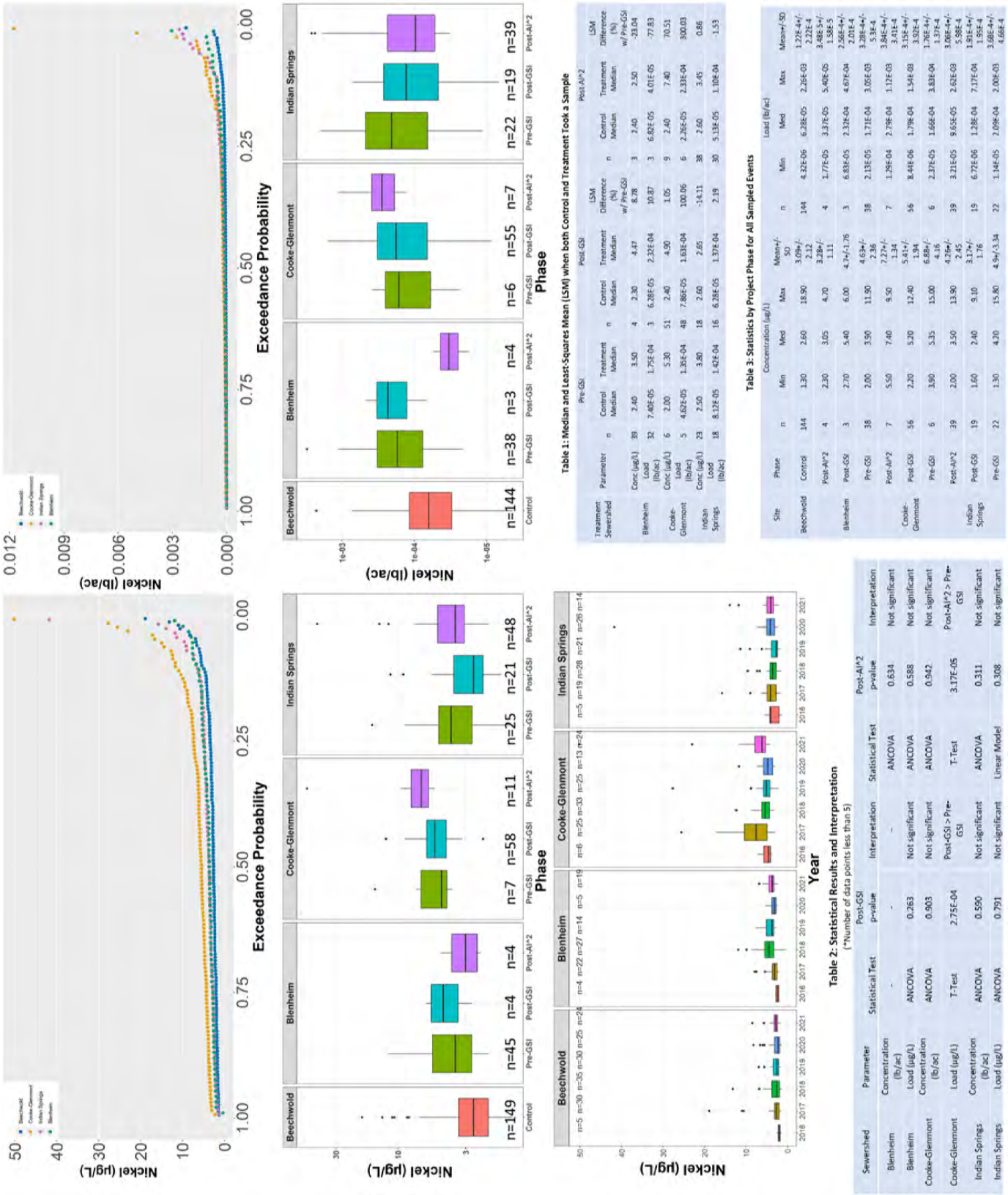


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	n	Pre-GSI Control Median	Pre-GSI Treatment Median	n	Post-GSI Control Median	Post-GSI Treatment Median	LSM Difference (%) w/ Pre-GSI	n	Post-Al^2 Control Median	Post-Al^2 Treatment Median	LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (µg/L)	89	2.40	3.50	4	2.30	4.47	8.78	3	2.40	2.50	-23.04
	Load (lb/ac)	32	7.40E-05	1.75E-04	3	6.28E-05	2.32E-04	10.87	3	6.82E-05	4.01E-05	-77.83
Cooke-Glenmont	Conc (µg/L)	6	2.00	5.30	51	2.40	4.90	1.05	9	2.40	7.40	70.51
	Load (lb/ac)	5	4.62E-05	1.35E-04	48	7.86E-05	1.63E-04	100.06	6	2.26E-05	2.33E-04	300.03
Indian Springs	Conc (µg/L)	23	2.50	3.80	18	2.60	2.85	-14.11	38	2.60	3.45	0.86
	Load (lb/ac)	18	8.12E-05	1.42E-04	16	6.28E-05	1.37E-04	2.19	30	5.13E-05	1.10E-04	-1.53

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (µg/L) Min	Med	Max	Mean+/-SD	n	Load (lb/ac) Min	Med	Max	Mean+/-SD
Beechwold	Control	144	1.30	2.60	18.90	3.09+/-2.12	144	4.32E-06	6.28E-05	2.26E-03	1.22E-4+/-2.22E-4
	Post-Al^2	4	2.30	3.05	4.70	3.28+/-1.11	4	1.77E-05	3.37E-05	5.40E-05	3.48E-5+/-1.58E-5
Blenheim	Post-GSI	3	2.70	5.40	6.00	4.7+/-1.76	3	6.83E-05	2.32E-04	4.67E-04	2.56E-4+/-2.01E-4
	Pre-GSI	38	2.00	3.50	11.90	4.63+/-2.36	38	2.13E-05	1.71E-04	3.05E-03	3.28E-4+/-5.3E-4
	Post-Al^2	7	5.50	7.40	9.50	7.27+/-1.34	7	1.29E-04	2.79E-04	1.12E-03	3.84E-4+/-3.41E-4
Cooke-Glenmont	Post-GSI	56	2.20	5.20	12.40	5.41+/-1.94	56	8.44E-06	1.79E-04	1.54E-03	3.15E-4+/-3.92E-4
	Pre-GSI	6	3.90	5.35	15.00	6.88+/-4.16	6	2.37E-05	1.66E-04	3.83E-04	1.76E-4+/-1.37E-4
	Post-Al^2	39	2.00	3.50	13.90	4.26+/-2.45	39	3.21E-05	9.65E-05	2.62E-03	3.06E-4+/-5.98E-4
Indian Springs	Post-GSI	19	1.60	2.40	9.10	3.17+/-1.76	19	6.72E-06	1.28E-04	7.17E-04	1.91E-4+/-1.95E-4
	Pre-GSI	22	1.30	4.20	15.80	4.9+/-3.34	22	1.14E-05	2.09E-04	2.00E-03	3.68E-4+/-4.66E-4

Table 2: Statistical Results and Interpretation

(*Number of data points less than 5)

Sewershed	Parameter	Statistical Test	Post-GSI p-value	Interpretation	Statistical Test	Post-Al^2 p-value	Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.634	Not significant
Blenheim	Load (µg/L)	ANCOVA	0.263	Not significant	ANCOVA	0.588	Not significant
Cooke-Glenmont	Concentration (lb/ac)	ANCOVA	0.903	Not significant	ANCOVA	0.542	Not significant
Cooke-Glenmont	Load (µg/L)	T-Test	2.75E-04	Post-GSI > Pre-GSI	T-Test	3.17E-05	Post-Al^2 > Pre-GSI
Indian Springs	Concentration (lb/ac)	ANCOVA	0.590	Not significant	ANCOVA	0.311	Not significant
Indian Springs	Load (µg/L)	ANCOVA	0.791	Not significant	Linear Model	0.308	Not significant

Figure 55. Summary statistics of Nickel in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.

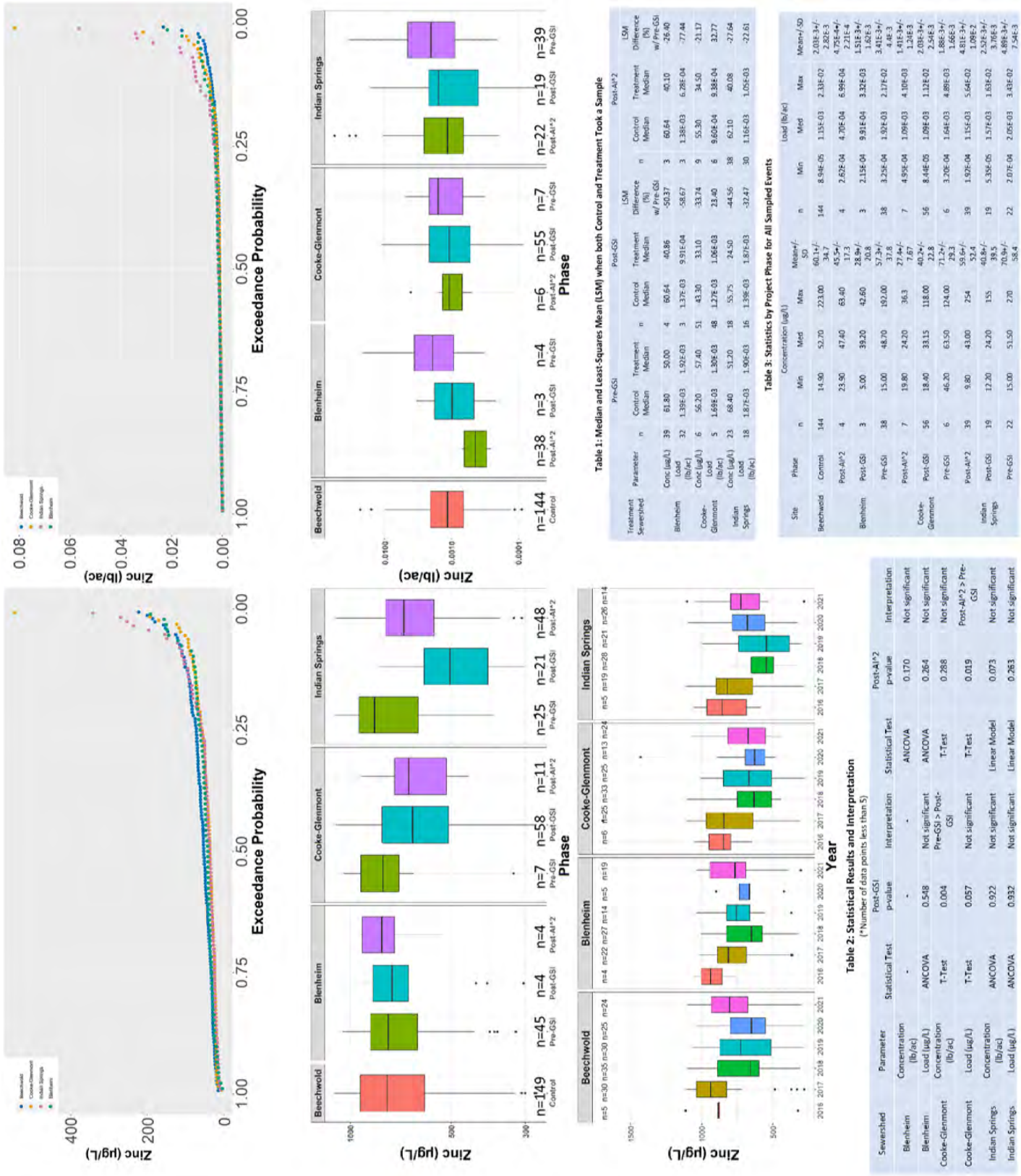


Table 1: Median and Least-Squares Mean (LSM) when both Control and Treatment Took a Sample

Treatment Sewershed	Parameter	n	Pre-GSI Control Median	Pre-GSI Treatment Median	n	Post-GSI Control Median	Post-GSI Treatment Median	LSM Difference (%) w/ Pre-GSI	n	Post-AI^2 Control Median	Post-AI^2 Treatment Median	LSM Difference (%) w/ Pre-GSI
Blenheim	Conc (µg/L)	39	61.80	50.00	4	60.64	40.86	-50.37	3	60.64	40.10	-26.40
	Load (lb/ac)	32	1.39E-03	1.92E-03	3	1.37E-03	9.91E-04	-58.67	3	1.38E-03	6.28E-04	-77.44
Cooke-Glenmont	Conc (µg/L)	6	56.20	57.40	51	43.30	33.10	-33.74	9	55.30	34.50	-21.17
	Load (lb/ac)	5	1.69E-03	1.30E-03	48	1.27E-03	1.06E-03	23.40	6	9.60E-04	9.38E-04	32.77
Indian Springs	Conc (µg/L)	23	68.40	51.20	18	55.75	24.50	-44.56	38	62.10	40.08	-27.64
	Load (lb/ac)	18	1.87E-03	1.90E-03	16	1.39E-03	1.87E-03	-32.47	30	1.16E-03	1.05E-03	-22.61

Table 3: Statistics by Project Phase for All Sampled Events

Site	Phase	n	Concentration (µg/L) Min	Med	Max	Mean+/-SD	n	Load (lb/ac) Min	Med	Max	Mean+/-SD
Beechwold	Control	144	14.90	52.70	223.00	60.1+/-34.7	144	8.94E-05	1.15E-03	2.33E-02	2.03E-3+/-2.82E-3
	Post-AI^2	4	23.90	47.40	63.40	45.5+/-17.3	4	2.62E-04	4.70E-04	6.99E-04	4.75E-4+/-2.21E-4
Blenheim	Post-GSI	3	5.00	39.20	42.60	28.9+/-20.8	3	2.15E-04	9.91E-04	3.32E-03	1.51E-3+/-1.62E-3
	Pre-GSI	38	15.00	48.70	192.00	57.3+/-37.8	38	3.25E-04	1.92E-03	2.17E-02	3.41E-3+/-4.4E-3
	Post-AI^2	7	19.80	24.20	36.3	27.4+/-7.67	7	4.95E-04	1.09E-03	4.10E-03	1.41E-3+/-1.24E-3
Cooke-Glenmont	Post-GSI	56	18.40	33.15	118.00	40.2+/-22.8	56	8.44E-05	1.09E-03	1.12E-02	2.03E-3+/-2.54E-3
	Pre-GSI	6	46.20	63.50	124.00	71.2+/-29.3	6	3.20E-04	1.64E-03	4.88E-03	1.88E-3+/-1.66E-3
	Post-AI^2	39	9.80	43.00	254	59.6+/-52.4	39	1.92E-04	1.15E-03	5.54E-02	4.81E-3+/-1.09E-2
Indian Springs	Post-GSI	19	12.20	24.20	155	40.8+/-39.5	19	5.35E-05	1.57E-03	1.63E-02	2.52E-3+/-3.70E-3
	Pre-GSI	22	15.00	51.50	270	70.9+/-58.4	22	2.07E-04	2.05E-03	3.43E-02	4.89E-3+/-7.54E-3

Table 2: Statistical Results and Interpretation
(*Number of data points less than 5)

Sewershed	Parameter	Statistical Test	Post-GSI p-value	Interpretation	Statistical Test	Post-AI^2 p-value	Interpretation
Blenheim	Concentration (lb/ac)	-	-	-	ANCOVA	0.170	Not significant
Blenheim	Load (µg/L)	ANCOVA	0.548	Not significant	ANCOVA	0.264	Not significant
Cooke-Glenmont	Concentration (lb/ac)	T-Test	0.004	Pre-GSI > Post-GSI	T-Test	0.288	Not significant
Cooke-Glenmont	Load (µg/L)	T-Test	0.057	Not significant	T-Test	0.019	Post-AI^2 > Pre-GSI
Indian Springs	Concentration (lb/ac)	ANCOVA	0.922	Not significant	Linear Model	0.073	Not significant
Indian Springs	Load (µg/L)	ANCOVA	0.932	Not significant	Linear Model	0.263	Not significant

Figure 56. Summary statistics of Zinc in water quality samples collected from Clintonville sewersheds and results of analyses comparing project phases. Significant differences (p<0.05) between phases for comparisons with more than five data points in each phase for concentration and load, determined from ANCOVA test with post-hoc test of linear model or t-test, are denoted by asterisk (*) in boxplot.