



Division of Surface Water
NPDES Small MS4 General Permit
(OHQ000003) Annual Reporting Form

Instructions for completing this form

- OHQ000003 requires that this form be used when submitting annual reports. You may request approval to use your own reporting format.
- Annual Reports are due annually on or before April 1st.
- Complete the form and sign and date the certification statement below
- If more space is needed than is provided, identify within the provided space that Attachment A, B, C, etc. has been attached.
- If an item of the form is not applicable for your program (such as street sweeping), fill in N/A in the space provided.
- Do not include attachments such as brochures, newspaper clips, sign-in sheets, etc. related to your program with this form.
 You only need to summarize these within this report. These records must be filed and will be needed during program audits.
- When complete, submit this Annual Report form to the following address:
 Ohio Environmental Protection Agency
 Division of Surface Water
 Storm Water Program-Small MS4
 P.O. Box 1049
 Columbus, Ohio 43216-1049

General Information

Small MS4 Annual Report for Year: 2022		Ohio EPA Facility Permit Number: 3GQ00012*DG	
Name of MS4: CITY OF CLEVELAND			
Mailing Address: 12302 KIRBY AVE			
City: CLEVELAND		State: OH	Zip Code: 44108
Country: USA		County: CUYAHOGA	
Primary Contact: RAMONA LOWERY		Title: COMMISSIONER	
Email Address: RLOWERY@CLEVELANDWPC.COM		Phone: (216) 664-2750	Fax:

Include or attach a Table of Organization. Indicate who (name and contact information) is responsible for overall management and implementation of your program, and if different, each minimum control measure of your program. Identify how development and implementation across multiple positions, agencies and departments occur. Also, identify any Memorandum of Understandings (MOUs) or other such agreements that exist.

Upload File Name for Table of Organization: Stormwater Management Program Organizational Chart.pdf

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 gather and evaluate 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 possibility of fine and imprisonment for knowing violations.

Applicant Name: Jennifer Heard	Title: Chief Civil Engineer
Signature: Electronically submitted by Waterpollutioncontrol	Date: Electronically submitted on 03/31/2023

PUBLIC EDUCATION AND OUTREACH

Estimate Your Permit Area of Total Population: 372624

BMP (mechanism)	Responsible Party	Measurable Goal	Theme or Message	Target Audience	% Target Audience	Effective
Distribution of CSWCD Newsletters	CSWCD	Newsletter will be sent to 10% of population 3 times/year; 15 newsletters will be placed in at least 1 Cleveland Public Library branch 3 times/year.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents/Homeowners	10	Yes

Summary of Results: Cuyahoga SWCD newsletters are filled with articles about stormwater and announcements of public events pertaining to conservation.

1,209 Cleveland households received the Cuyahoga SWCD Newsletter three times a year.

480 Cuyahoga SWCD newsletters were placed on display three times a year in Cleveland in 2022.

15 newsletters were displayed at 30 Cleveland Public library branches, one County library

Comments:

National Stormwater Awareness Week	Water Pollution Control	Increase the number of residents and property owners demonstrating awareness of stormwater management best practices by at least 10% and at least 1% of residents will adopt at least one stormwater control measure over the 5 year permit term.	Lake Erie Starts Here	Residents and property owners in Cleveland	1	Yes
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Summary of Results: 1. Event highlighted with daily social media posts on Facebook & Twitter; 2. Week culminated with 16 volunteers at a stream cleanup at Big Creek.

Comments:

Distribution of Printed and Digital Education Materials in the Community	CSWCD	Placement of theme-based poster and distribution of at least 1 printed education material at an appropriated facility. Placement of articles in community newsletter, CSWCD newsletter, and on community and CSWCD websites.	<p>1. Waste - There Is No Away - Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems; 2. Sensible Salting - Road salt directly impacts aquatic life when it runs off into local streams. By adopting alternative deicing techniques and sensible salting strategies, the amount of road salt reaching local waterways will be reduced; 3. Backyard Conservation ¿ Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system; 4. Trees - Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality; and 5. We all live in a watershed and our actions on the land directly affect the quality of our water.</p> <p>Yes</p>	Residents/Homeowners	10	Yes
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Summary of Results: Educational Materials Distributed by Cuyahoga SWCD to Stormwater Manager (print and digital):

NEWSLETTERS AND POSTER - Cuyahoga SWCD Newsletter ¿ 15/each season and ¿Do You Know Your Watershed¿ poster

RACK CARDS - Cuyahoga SWCD provided the community with three stormwater rack cards. These are posted on our Stormwater Education webpage - which we sent to the community to link to on their page. Information also sent to the community thru Dropbox to be distributed to residents via email, community newsletter and posted on community website. These were also promoted on social media.

1. Slow it Down: Shrink Your Lawn
2. Soak it In: Soil Amendments
3. Spread it Out: Rain Gardens

BLOG - Cuyahoga SWCD staff writes and posts a weekly blog on their website. The community is encouraged to link to the blog on their website and repost the messages on their Facebook pages and also to their residents via e-blast, etc. In 2022, there were 43 blogs written on the Cuyahoga SWCD website. Topics are on soil and water conservation particularly stormwater and watershed tips. A full list can be found on www.cuyahogawcd.org/blog These were also promoted on social media.

MONTHLY CONSERVATION TIPS - Cuyahoga SWCD provided the community with three sets of monthly conservation tips via Dropbox to be distributed to residents via email, social media, community newsletter and posted on the community¿s website. Content focuses on watershed friendly practices and use of native plants in landscaping to encourage stormwater uptake. These were also promoted on social media.

STORMWATER EDUCATION WEBSITE - Cuyahoga SWCD hosts a stormwater education webpage on their website. All materials are listed on this site. Community is encouraged to link to this page on their website and share it with residents. www.cuyahogawcd.org/programs/stormwater-education

DROPBOX - Information also sent to the community thru Dropbox to be distributed to residents via email, community newsletter and posted on community¿s website.

SOCIAL MEDIA - Cuyahoga SWCD maintains a Facebook, Instagram, Twitter, and LinkedIn account with at least weekly posts. Cuyahoga SWCD encourages the community to share these accounts with their community members.
Total followers = 7,279 (Facebook ¿ 5,743, Instagram - 942, Twitter ¿ 107, LinkedIn - 487)

Comments:

Distribution of Printed and Digital Education Materials in the Community	Cuyahoga Soil & Water Conservation District (CSWCD)	Placement of at least 1 theme-based poster and distribution of at least 1 printed education material at an appropriate facility per year.	<p>1. Waste - there is no Away - Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems; 2. Sensible Salting - Road salt directly impacts aquatic life when it runs off into local streams. By adopting alternative deicing techniques and sensible salting strategies, the amount of road salt reaching local waterways will be reduced; 3. Backyard Conservation - Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system; 4. Trees - Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality; and 5. We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	Residents/Homeowners	10	Yes
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Summary of Results: NEWSLETTERS AND POSTER - Cuyahoga SWCD Newsletter ĳ 15 each/season

RACK CARDS - Cuyahoga SWCD provided the community with three stormwater rack cards. These were posted on our Stormwater Education webpage - which we sent to the community to link to on their page. Information also sent to the community thru Dropbox to be distributed to residents via email, community newsletter and posted on community website. These were also promoted on social media:

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STORMWATER EDUCATION WEBSITE - Cuyahoga SWCD hosts a stormwater education webpage on their website. All materials are listed on this site. Community is encouraged to link to this page on their website and share it with residents. www.cuyahogawcd.org/programs/stormwater-education.

DROPBOX - Information also sent to the community thru Dropbox to be distributed to residents via email, community newsletter and posted on community's website.

SOCIAL MEDIA - Cuyahoga SWCD maintains a Facebook, Instagram, Twitter, and LinkedIn account with at least weekly posts. Cuyahoga SWCD encourages the community to share these accounts with their community members. Total followers = 7,279 (Facebook ĳ 5,743, Instagram - 942, Twitter ĳ 107, LinkedIn - 487)

Comments:

Annual Teacher Workshop(s)	CSWCD	Offer at least one teacher workshop/year	We all live in a watershed and our actions on the land directly affect the quality of our water.	Teachers	10	Yes
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Summary of Results: 9 Cleveland teachers attended Cuyahoga SWCD teacher workshops hosted throughout Cuyahoga County in 2022.

9 Cleveland teachers attended Cuyahoga SWCD's teacher workshops hosted throughout Cuyahoga County in 2022.

Comments: July 19, 2022. B-WET TOTE 2022. Cuyahoga SWCD hosted this event at the Old Woman Creek National Estuarine Research Reserve. 1 Cleveland teacher participated.
 July 26, 2022. CSU PBL Bootcamp Presentation. Cuyahoga SWCD presented at this event open to all Cuyahoga County teachers. 3 Cleveland teachers participated.
 April 23, 2022. B-WET AOC Teacher Bus Tour. Cuyahoga SWCD hosted this event open to all Cuyahoga County residents. 2 Cleveland teachers participated.
 June 27, 2022. B-WET Summer Teacher Workshop. Cuyahoga SWCD hosted this event open to all Cuyahoga County residents. 2 Cleveland teachers participated.
 November 4, 2022. B-WET CVEEC 2022. Cuyahoga SWCD hosted this event open to all Cuyahoga County residents. 1 Cleveland teacher participated

School-based presentations and annual poster contest	CSWCD	At least 5 school-based presentations and 1 annual poster contest will be made available to school districts serving the community.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Teachers/students	10	Yes
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Summary of Results: 428 Cleveland students attended stormwater related presentations conducted by CSWCD in 2022.

Comments: February 15, 2022. Conservation Career Expo ESC event. Cuyahoga SWCD hosted this event in the Countywide. 152 people participated. 25 Cleveland residents participated.
 March 28, 2022. Poster Contest Presentation Hathaway Brown 2022. Cuyahoga SWCD hosted this event in the City of Shaker Heights. 8 Cleveland residents participated.
 April 6, 2022. Clara E. Westropp School-STEM Night. Cuyahoga SWCD hosted this event in the City of Cleveland. 30 people participated. 28 were Cleveland residents.
 May 20, 2022. Cleveland Lakefront Nature Preserve Alfred A. Benesch CMSD. Cuyahoga SWCD hosted this event in the City of Cleveland. 26 people participated, all from Cleveland.
 July 7, 2022. Rain Barrel Program CMSD Summer Camp Halle School of Inquiry. Cuyahoga SWCD hosted this event in the City of Cleveland. 31 people participated, all from Cleveland.
 August 23, 2022. MWEE CMSD MC2 2022 presentation. Cuyahoga SWCD hosted this event in the City of Cleveland. 13 people participated, all from Cleveland.
 September 22, 2022. MWEE Joseph Gallagher 2022 Presentation. Cuyahoga SWCD hosted this event in the City of Cleveland. 10 people participated, all from Cleveland.
 September 20, 2022. QHEI Rhodes Big Creek 2022. Cuyahoga SWCD hosted this event in the City of Brooklyn. 68 people participated. 68 Cleveland residents participated.
 October 3, 2022. NUTS gather Urban Community Cleveland 2022. Cuyahoga SWCD hosted this event in the City of Cleveland. 61 people participated, all from Cleveland.
 October 11, 2022. NUTS Gather St. Ignatius of Antioch Cleveland 2022. Cuyahoga SWCD hosted this event in the City of Cleveland. 25 people participated, all from Cleveland.
 October 6, 2022. QHEI John Marshall Big Creek 2022. Cuyahoga SWCD hosted this event in the City of Brooklyn. 17 Cleveland residents participated.
 October 12, 2022. NUTS Gather St. Columbille 2022. Cuyahoga SWCD hosted this event in the City of Parma. 4 Cleveland residents participated.
 October 17, 2022. NUTS Prepare St. Ignatius of Antioch Cleveland 2022. Cuyahoga SWCD hosted this event in the City of Cleveland. 25 people participated, all from Cleveland.
 October 21, 2022. Rain garden presentation [John Marshall]. Cuyahoga SWCD hosted this event in the City of Cleveland. 12 people participated, all from Cleveland.
 November 9, 2022. NUTS I-tree St. Ignatius of Antioch Cleveland 2022. Cuyahoga SWCD hosted this event in the City of Cleveland. 7 people participated, all from Cleveland.
 November 30, 2022. NUTS prepare St. Columbille Parma. Cuyahoga SWCD hosted this event in the City of Parma. 3 Cleveland residents participated.
 December 5, 2022. NUTS Prepare Urban Community Cleveland. Cuyahoga SWCD hosted this event in the City of Cleveland. 61 people participated, all from Cleveland.

RiverSweep Stream Cleanup	Water Pollution Control	Increase the number of residents and property owners demonstrating awareness of stormwater management best practices by at least 10% and at least 1% of residents will adopt at least one stormwater control measure over the 5 year permit term.	1. Lake Erie Starts Here; 2. Connecting the World Through Public Works	Residents and property owners in the City of Cleveland	1	Yes
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Summary of Results: 1. 26 volunteers; 2. WPC representative spoke and distributed literature about the importance of stormwater management and how stream cleanups help water quality and improve stream flow; and 3. The themes emphasized how everyone working together can positively impact the local water quality.

Comments:

Annual Teacher Workshop	CSWCD	Offer at least 1 teacher workshop	We all live in a watershed and our actions on the land directly affect the quality of our water.	Teachers	10	Yes
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 November 4, 2022. B-WET CVEEC 2022. Cuyahoga SWCD hosted this event open to all Cuyahoga County residents. 1 Cleveland teacher participated

School-based Presentations and Annual Poster Contest	CSWCD	Host at least 5 school-based presentations and 1 annual poster contest in school districts serving the community.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Teachers/students	10	Yes
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 September 20, 2022. QHEI Rhodes Big Creek 2022. Cuyahoga SWCD hosted this event in the City of Brooklyn. 68 people participated. 68 Cleveland residents participated.
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Workshops and Presentations	CSWCD	Opportunities for at least 1 presentation will be made available to civic, scout and/or student groups in the community. This may include community displays and participation at special events.	We live in a watershed and our actions on the land directly affect the quality of our water.	General public, teachers/students; Stormwater professionals.	10	Yes
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Summary of Results: 70 Cleveland residents attended stormwater related education programs throughout Cuyhoga County in 2022.

Comments: January 25, 2022. Rocky River Watershed Council RRWC Annual Meeting. Cuyahoga SWCD hosted this event in the City of Strongsville. 32 people participated. 4 Cleveland residents participated.
 March 7, 2022. Monday Meet Up with the RRWC and WVP. Cuyahoga SWCD hosted this event in the City of North Olmsted. 17 people participated. 2 Cleveland residents participated.
 March 22, 2022. AOC Conference Canal Diversion Dam site tour. Cuyahoga SWCD hosted this event in the City of Brecksville. 42 people participated. 11 Cleveland residents participated
 May 2, 2022. Master Rain Gardeners. Cuyahoga SWCD hosted this event in the City of Parma. 13 people participated. 3 Cleveland residents participated.
 May 10, 2022. NWF Sacred Grounds orientation/Stormwater presentation. Cuyahoga SWCD hosted this event in the Virtual. 25 people participated, all from Cleveland.
 June 15, 2022. Masjid Bilal - Native Plant garden and native trees - NWF Sacred Grounds. Cuyahoga SWCD hosted this event in the City of Cleveland. 20 people participated, all from Cleveland.
 July 22, 2022. Healthy Soils presentation. Cuyahoga SWCD hosted this event in the City of Cleveland. 49 people participated. 0 Cleveland residents participated.
 August 15, 2022. RR WQ monitoring training August 2022. Cuyahoga SWCD hosted this event in the Olmsted Township. 15 people participated. 2 Cleveland residents participated.
 October 19, 2022. Green Corps Macro Program 2022. Cuyahoga SWCD hosted this event in the City of Cleveland. 3 people participated, all from Cleveland.

Distribution of CSWCD Newsletters	CSWCD	Send to at least 10% of population 3 times/year. Place 15 newsletters at 1 Cleveland Public Library 3 times/year.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents/homeowners	10	Yes
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Summary of Results: Cuyahoga SWCD newsletters are filled with articles about stormwater and announcements of public events pertaining to conservation. 1,209 Cleveland households received the Cuyahoga SWCD Newsletter three times a year. 480 Cuyahoga SWCD newsletters were placed on display three times a year in Cleveland in 2022. 15 newsletters were displayed at 30 Cleveland Public library branches and one County library.

Comments:

"Do You Know Your Watershed" brochure	Cuyahoga Soil & Water Conservation District	Placement of 1 theme-based poster at appropriate facility per year.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents/Homeowners	10	Yes
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Summary of Results: "Do You Know Your Watershed" poster given to WPC to hang in main office.						
Comments:						
Big Creek Stream Cleanup	Water Pollution Control	Increase the number of residents and property owners demonstrating awareness of stormwater management best practices by at least 10% and at least 1% of residents will adopt at least one stormwater control measure over the 5 year permit term.	Lake Erie Starts Here	Residents and property owners in Cleveland	1	Yes
Summary of Results: 1. 15 volunteers; 2. Filled 1 full size dumpster with debris removed from the creek; 3. Passed out literature						
Comments:						
Targeted mailings	Cuyahoga Soil & Water Conservation District (CSWCD)	At least 10% of households will receive a message about watersheds	We all live in a watershed and our actions on the land directly affect the quality of our water	Residents/Homeowners	10	Yes
Summary of Results: Postcard "Lake Erie Watershed" mailed out to 16,710 households in community						
Comments:						
Distribution of Doan Brook Watershed Partners (DBWP) Annual Newsletter and 14 email newsletter	DBWP	The number of residents indicating knowledge of stormwater issues and solution will increase by 10% by the end of the 5-year permit term.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Watershed residents	9	Yes
Summary of Results: 14 email newsletters in 2022 were opened a combined 21,0528 times and 3,992 residents received mailed annual newsletter.						
Comments:						
DBWP Website	DBWP	Weekly updates to DBWP website.	We all live in a watershed and our actions on the land directly affect the quality of our water	Watershed residents	20	Yes
Summary of Results: 9,494 unique users, 12,735 individual sessions, and 23,272 page views in 2022						
Comments:						
Doan Brook Watershed Virtual PowerPoint Presentations	DBWP/Center at Shaker Lakes	The number of residents indicating knowledge of stormwater issues and solutions will increase by 10% by the end of the 5-year permit term.	We all live in a watershed and our actions on the land directly affect the quality of our water. Native plants and trees filter non-point source pollutants, decrease soil erosion, assist soil microbial life and promote biodiversity.	Watershed residents	1	Yes
Summary of Results:						
March 15, 24, 30, April 6, 14: Bringing Nature Home Series DBWP and Nature Center at Shaker Lakes educated attendees about sustainable landscaping, non-point source pollution, and stormwater management at home.						
Comments:						

DBWP PowerPoint Presentations	DBWP/Mastery School of Hawken/The Meeting Place Learning Center/Intown Club	The number of residents indicating knowledge of stormwater issues and solutions will increase by 10% by the end of the 5-year permit term.	We all live in a watershed and our actions on the land directly affect the quality of our water. Native plants and trees filter non-point source pollutants, decrease soil erosion, assist soil microbial life and promote biodiversity.	Students	1	Yes
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Summary of Results: February 17, March 10: Mastery School of Hawken presentation DBWP educated attendees about non-point source pollution and local watersheds

April 6: The Meeting Place Learning Center DBWP educated attendees about non-point source pollution and local watersheds

May 9: Intown Club DBWP educated attendees about non-point source pollution and local watersheds

Comments:

PUBLIC EDUCATION & OUTREACH

Summarize activities you plan to undertake during the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Theme or Message	Target Audience	% Target Audience	Proposed Schedule
Targeted Mailings	CSWCD	At least 10% of the community's residents will be reached with a sensible salting message. 50% of parking lot owners/operators/managers and their contractors will be reached on sensible salting. 75% of golf courses and Homeowners Associations for which contact information is available in the community will be reached with a message about practices for discouraging geese.	Road salt directly impacts aquatic life when it runs off into local streams. By adopting alternative deicing techniques and sensible salting strategies, the amount of road salt reaching local waterways will be reduced. We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents/homeowners; Parking lot owners; Golf courses and Homeowner's Associations	10	2023

Summary of Planned Activities: Printed materials will be mailed to 10% of households in the community about Sensible Salting; Printed materials will be mailed to 75% of parking lot owners/operators/managers and their contractors on sensible salting; and printed materials will be mailed to 75% of golf courses and Homeowners Associations on discouraging geese.

Comments:

School-based Presentations and Annual Poster Contest	CSWCD	Conduct at least 5 school-based presentations and annual poster contest for school districts serving the community.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Teachers/students	5	2023
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Summary of Planned Activities: School-based and/or civic group presentations and/or an annual poster contest will be made available to school districts serving the community.

Comments:						
Workshops and Presentations/Sensible Salting Seminars	CSWCD	<p>Opportunities for at least 1 presentation will be made available to civic, scout and/or student groups in the community. This may include community displays and participation at special events.</p> <p>2 Sensible Salting seminars will be offered to municipal workers Countywide.</p>	<p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p> <p>Road salt directly impacts aquatic life when it runs off into local streams. By adopting alternative deicing techniques and sensible salting strategies, the amount of road salt reaching local waterways will be reduced.</p>	General public; teachers/students; Stormwater professionals	10	2023
Summary of Planned Activities: Presentation will be given to one civic, scout or student group in the community. Sensible salting seminars will be given to municipal workers.						
Comments:						
Distribution of CSWCD Newsletters	CSWCD	Approximately 1,200 (or 10% of Cleveland population) newsletters will be sent to residents three times a year. 15 newsletters will be placed at least 1 Cleveland Public Library branch 3 times a year.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents/Homeowners	10	2023
Summary of Planned Activities: Cuyahoga SWCD newsletters are filled with articles about stormwater and announcements of public events pertaining to conservation.						
Cleveland households received the Cuyahoga SWCD Newsletter three times a year.						
15 copies of the Cuyahoga SWCD newsletter were distributed three times a year to a CPL branch.						
Comments:						
National Public Works & Safety Week - Open House	Water Pollution Control	Increase the number of residents and property owners demonstrating awareness of stormwater management best practices by at least 10% and at least 1% of residents will adopt at least one stormwater control measure over the 5 year permit term.	Lake Erie Starts Here	Residents and property owners in Cleveland	1	May 15-21, 2023
Summary of Planned Activities: 1. Expand the "Keep Cleveland Watersheds Clean" campaign; 2. Expand the "Only Rain Down the Storm Drain and No Dumping" campaigns						
Comments:						

National Stormwater Awareness Week	Water Pollution Control	Increase the number of residents and property owners demonstrating awareness of stormwater management best practices by at least 10% and at least 1% of residents will adopt at least one stormwater control measure over the 5 year permit term.	Lake Erie Starts Here	Residents and property owners in Cleveland	1	October 2023
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Summary of Planned Activities: 1. Highlight event with daily social media posts on Facebook and Twitter; 2. Culminate the week's activities with volunteers at Big Creek stream cleanup in Cleveland.

Comments:

Update Website	DBWP	Number of hits, page visits, and Facebook likes	To educate people about the Doan Brook Watershed and its issues. Provide data, volunteer opportunities and educational and recreational event opportunities. Every storm drain and small tributary flows to Lake Erie via Doan Brook and other local streams.	Watershed residents	1	Monthly throughout 2023
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Summary of Planned Activities: Visitors will access information, scientific data and educational materials at doanbrookpartnership.org. They will register for DBWP events and like our Facebook page.

Comments:

Distribution of DBWP Newsletter and Email Newsletters	DBWP	The number of residents indicating knowledge of stormwater issues and solutions will increase by 10% by the end of the 5-year permit term.	We all live in a watershed and our actions on the land directly affect the quality of our water. Every storm drain and small tributary flows to Lake Erie via Doan Brook and other local streams.	Watershed residents	1	At least monthly throughout 2023 for email newsletters. One mailed newsletter in the Fall.
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Summary of Planned Activities: Email newsletters will be distributed to residents on email contact list at least 12 times during the course of the year. Mailed newsletter will be distributed once per year to residents on physical mailing contact list.

Comments:

Distribution of Printed and Digital Education Materials in the Community	CSWCD	Placement of 1 theme-based poster and distribution of printed educational materials at an appropriate facility, placement of articles in community newsletters and Cuyahoga SWCD newsletter, and on community and Cuyahoga SWCD websites.	<p>Waste - There Is No Away - Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems;</p> <p>Sensible Salting - Road salt directly impacts aquatic life when it runs off into local streams. By adopting alternative deicing techniques and sensible salting strategies, the amount of road salt reaching local waterways will be reduced;</p> <p>Backyard Conservation - Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements.</p> <p>Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff.</p> <p>Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system;</p> <p>Trees - Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality;</p> <p>and We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	Residents/Homeowners	10	2023
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Summary of Planned Activities: Educational Materials Distributed by Cuyahoga SWCD to Stormwater Manager (print and digital):

NEWSLETTERS AND POSTER ħ Cuyahoga SWCD Newsletter ħ 15/each season and ħSensible Saltingħ poster

RACK CARDS ħ Cuyahoga SWCD provided the community with three stormwater rack cards. These are posted on our Stormwater Education webpage ħ which we sent to the community to link to on their page. Information also sent to the community thru Dropbox to be distributed to residents via email, community newsletter and posted on community website. These were also promoted on social media.

1. Slow it Down: Shrink Your Lawn
2. Soak it In: Soil Amendments
3. Spread it Out: Rain Gardens

BLOG ħ Cuyahoga SWCD staff writes and posts a weekly blog on their website. The community is encouraged to link to the blog on their website and repost the messages on their Facebook pages and also to their residents via e-blast, etc. In 2023, there were XX blogs written on the Cuyahoga SWCD website. Topics are on soil and water conservation particularly stormwater and watershed tips. A full list can be found on www.cuyahogawcd.org/blog These were also promoted on social media.

MONTHLY CONSERVATION TIPS ħ Cuyahoga SWCD provided the community with three sets of monthly conservation tips via Dropbox to be distributed to residents via email, social media, community newsletter and posted on the community ħs website. Content focuses on watershed friendly practices and use of native plants in landscaping to encourage stormwater uptake. These were also promoted on social media.

STORMWATER EDUCATION WEBSITE ħ Cuyahoga SWCD hosts a stormwater education webpage on their website. All materials are listed on this site. Community is encouraged to link to this page on their website and share it with residents. www.cuyahogawcd.org/programs/stormwater-education

DROPBOX ħ Information also sent to the community thru Dropbox to be distributed to residents via email, community newsletter and posted on community ħs website.

SOCIAL MEDIA ħ Cuyahoga SWCD maintains a Facebook, Instagram, Twitter, and LinkedIn account with at least weekly posts. Cuyahoga SWCD encourages the community to share these accounts with their community members. Total followers = 7,279 (Facebook ħ 5,743, Instagram ħ 942, Twitter ħ 107, LinkedIn ħ 487)

Comments:

Annual County-wide Teacher Workshop	CSWCD	Offer at least 1 annual country-wide teacher workshop to school districts serving the community.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Teachers/students	5	2023
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Summary of Planned Activities: Annual county-wide teacher workshop will be offered to school districts serving the community.

Comments:

Stormwater Poster and a "Backyard Conservation" 15-month Calendar	CSWCD	Placement of 1 theme-based poster and distribution of printed educational materials at an appropriate facility; placement of articles in community newsletters and Cuyahoga SWCD newsletter, and on community and Cuyahoga SWCD websites. All materials, as well as additional information and guidance will be housed on the Cuyahoga SWCD Stormwater Education web page. All outreach materials will direct readers to this page for additional information. One 15-month Conservation Calendar will be made available to the public.	Waste - There Is No Away - Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems. Sensible Salting - Road salt directly impacts aquatic life when it runs off into local streams. By adopting alternative deicing techniques and sensible salting strategies, the amount of road salt reaching local waterways will be reduced; Backyard Conservation √ Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system; Trees - Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality; and We all live in a watershed and our actions on the land directly affect the quality of our water.	General public	10	2023
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Summary of Planned Activities: Placement of theme-based poster and distribution of printed educational materials at the community hall or other appropriate facility, placement of articles in community newsletters and Cuyahoga SWCD newsletter, and on community and Cuyahoga SWCD websites. All materials, as well as additional information and guidance will be housed on the Cuyahoga SWCD Stormwater Education web page. All outreach materials will direct readers to this page for additional information.

Comments:

PUBLIC INVOLVEMENT AND PARTICIPATION

BMP (mechanism)	Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate Of People Participated	Effective
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Watershed Brochures (Big Creek; Cuyahoga River; Doan Brook; Euclid Creek; and Mill Creek)	WPC	The number of Cleveland residents and property owners demonstrating awareness of stormwater best management practices will increase by at least 10%, and at least 1% of residents will adopt at least one stormwater control measure during the five-year permit term.	Lake Erie Starts Here!	Residents and property owners in Cleveland	55	Yes
Summary of Results: 50 - 60 watershed brochures were passed out at various events according to the watershed.						
Comments:						
Stream Cleanup	Cuyahoga Soil and Water Conservation District (CSWCD)	At least one stream cleanup per year, with at least 10 participants	We all live in a watershed and our action on the land directly affect the quality of our water.	General public and users of the river/watershed resources - fishing clubs, canoeists/kayakers, hikers, scouts, and birders.	32	Yes
Summary of Results: 32 Cleveland residents participated in CSWCD stream cleanup events throughout Cuyahoga County in 2022.						
Comments: April 30, 2022. Big Creek Cleanup. Cuyahoga SWCD hosted this event in the City of Brooklyn, City of Cleveland, City of Parma, City of Parma Heights. 75 people participated. 25 were from Cleveland. May 5, 2022. Litterati Cleveland Heights Fairfax 22. Cuyahoga SWCD hosted this event in the City of Cleveland Heights. 72 people participated. 1 was from Cleveland. May 13, 2022. Stream Cleanup Fulbright Scholars. Cuyahoga SWCD hosted this event in the City of Maple Heights. 23 people participated. 1 was from Cleveland. June 4, 2022. Rocky River Clean-Up 2022. Cuyahoga SWCD hosted this event in the City of Brook Park, City of Cleveland, City of Lakewood, City of Rocky River. 88 people participated. 5 were from Cleveland.						
2nd Annual Cuyahoga River Rally	Water Pollution Control (WPC)	The number of Cleveland residents and property owners demonstrating awareness of stormwater best management practices will increase by at least 10%, and at least 1% of residents will adopt at least one stormwater control measure during the five-year permit term.	Lake Erie Starts Here!	Residents and property owners in Cleveland	200	Yes
Summary of Results: At least 200 people visited the WPC booth. Many people said they had not made the connection between sewer maintenance and clean water efforts.						
Comments:						
Only Rain Down the Storm Drain and No Dumping Campaigns	WPC	The number of Cleveland residents and property owners demonstrating awareness of stormwater best management practices will increase by at least 10%, and at least 1% of residents will adopt at least one stormwater control measure during the five-year permit term.	Lake Erie Starts Here!	Residents and property owners in Cleveland	375	Yes
Summary of Results: WPC continued to use social media and in-person opportunities to promote this campaign and raise awareness that everyone can make a difference by doing small things in their personal lives to help the city comply with environmental regulations that protect human and environmental health and promote clean water.						
Comments:						

Rain Barrel Installation & Rain Barrel Art	CSWCD	At least one Rain Barrel Workshop will be conducted in the community. Each participant will construct a rain barrel to install at his/her residence.	Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.	Homeowners	19	Yes
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Summary of Results: 19 Cleveland residents participated in CSWCD rain barrel workshops.

Comments:

Watershed-friendly Landscaping: Rain Garden Installation and/or Sustainable Lawnscape Installation	CSWCD	At least 1 commercial or institutional property owner or 2 community residents will install rain gardens or other sustainable landscapes, including reduction of turfed areas.	Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.	Commercial/Institutional properties. Homeowners.	190	Yes
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Summary of Results: 190 Cleveland residents participated in Cuyahoga SWCD Watershed-Friendly Landscaping events.

Comments: May 17, 2022. Pollinator Garden Willson School St. Casimir. Cuyahoga SWCD hosted this event in the City of Cleveland. 46 people participated. All were from Cleveland.
July 11, 2022. Native Plant Kit sales. Cuyahoga SWCD hosted this event open to all county residents. 141 people participated. 23 were from Cleveland.
September 15, 2022. New Life Cathedral ĳ native plants planters. Cuyahoga SWCD hosted this event in the City of Cleveland. 10 people participated. All were from Cleveland.
September 15, 2022. First Cleveland Mosque ĳ NWF Sacred Grounds ĳ native plant garden. Cuyahoga SWCD hosted this event in the City of Cleveland. 10 people participated. All were from Cleveland.
October 7, 2022. Pollinator Garden St. Thomas More. Cuyahoga SWCD hosted this event in the City of Brooklyn. 30 people participated. 10 people were from Cleveland.
December 29, 2022. Soil test kit distribution. Cuyahoga SWCD hosted this event open to all county residents. 273 people participated. 45 were from Cleveland.
December 30, 2022. Native seed sales. Cuyahoga SWCD hosted this event open to all county residents. 107 people participated. 34 were from Cleveland.

Tree Planting Maintenance, Propagation, Pledges and Giveaways	CSWCD	Conduct at least one tree planting event.	<p>Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	Residents, businesses, community organizations, churches, synagogues and other religious institutions.	89	Yes
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Summary of Results: 89 Cleveland residents participated in CSWCD tree planting events.

Comments: April 9, 2022. Euclid Creek Backyard Buffers Program. Cuyahoga SWCD hosted this event in the City of Cleveland. 87 people participated. All were from Cleveland.
 April 16, 2022. Rocky River Backyard Buffers Distribution Day 1. Cuyahoga SWCD hosted this event in the City of Rocky River. 45 people participated. 1 was from Cleveland.
 April 19, 2022. NUTS Cleveland St. Ignatius. Cuyahoga SWCD hosted this event in the City of Cleveland. 33 people participated. All were from Cleveland.
 April 29, 2022. Project Plant It ĩ Cleveland (Trinity Church) ĩ redbuds. Cuyahoga SWCD hosted this event in the City of Cleveland. 35 people participated. All were from Cleveland.
 May 1, 2022. Rocky River Backyard Buffers Brunswick Distribution Day. Cuyahoga SWCD hosted this event with the Rocky River Watershed Council in the City of Brunswick. 78 people participated. 1 was from Cleveland.
 May 3, 2022. Project Plant It Moreland Hills Elementary School. Cuyahoga SWCD hosted this event in the Village of Moreland Hills. 175 people participated. 6 were from Cleveland.
 June 10, 2022. Richmond Heights Tree Planting USFS/GLRI grant. Cuyahoga SWCD hosted this event in the City of Richmond Heights. 3 people participated. 1 was from Cleveland.
 October 8, 2022. Brook Park Tree Planting at Joe Konery Park. Cuyahoga SWCD hosted this event in the City of Brook Park. 7 people participated. 1 was from Cleveland.
 November 4, 2022. Tree Planting at Surrarrer Park . Cuyahoga SWCD hosted this event in the City of Strongsville. 15 people participated. 2 were from Cleveland.

Stormwater Pledges	CSWCD	<p>At least 10 citizens participate in a stormwater-related Pledge to perform activities that benefit water quality.</p> <p>Pledge themes include: Litter, Sensible Salting, Tree Planting and Maintenance, Pick up Dog Waste, Watershed Champion (sustainable landscaping).</p>	<p>Road salt directly impacts aquatic life when it runs off into local streams. By adopting alternative deicing techniques and sensible salting strategies, the amount of road salt reaching local waterways will be reduced.</p> <p>Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.</p> <p>Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems.</p> <p>Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	Residents	10	Yes
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Summary of Results: 10 Cleveland residents took a pledge to reduce litter, pick up after their dog, improve winter salting habits or perform watershed friendly practices in their yard and community.

Comments:

Water Quality Monitoring	CSWCD	<p>At least one citizen participates in water quality monitoring, and/or at least 5 citizens provide input on a watershed or stormwater management plan for the community/watershed.</p>	<p>We all live in a watershed and our actions on the land directly affect the quality of our water</p>	General public	4	Yes
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Summary of Results: 4 Cleveland residents participated in water quality monitoring activities and events.						
Comments: May 17, 2022. Macro Monitoring Kickoff 2022. Cuyahoga SWCD hosted this event in the City of Berea. 4 people participated. 1 was from Cleveland. June 25, 2022. WQ Program Overview and Celebration. Cuyahoga SWCD hosted this event in the City of Garfield Heights. 16 people participated. 1 was from Cleveland. May 22, 2022. QHEI, Tree Planting, Invasive Species ID, and WQ monitoring training for Bock for the Rock. Cuyahoga SWCD hosted this event with Rocky River Watershed Council in the City of Medina. 41 people participated. 2 were from Cleveland.						
Doan Brook and Dugway Brook Volunteer Stream Clean Ups	Doan Brook Watershed Partners (DBWP)	Percent of Doan Brook mainstem to be swept by volunteer trash collectors: 10-30% Percent of Dugway Brook in Forest Hill Park to be swept by volunteer trash collectors: 10%	We all live in a watershed and our actions on the land directly affect the quality of our water.	Watershed citizens & students	32	Yes
Summary of Results: April 9, 16, 20 & September 22: Volunteers collected trash and recyclables from the Doan Brook in Rockefeller Park and from the Doan Brook Gorge. Trash and recycling disposal was coordinated by the DBWP.						
April 23 & November 19: Volunteers collected trash and recyclables from the Dugway Brook in Forest Hill Park and Denison Park. Trash and recycling disposal was coordinated by the DBWP.						
Comments:						
DIY Rain Barrel Workshops	DBWP	Increase number of homeowners who will learn how to build rain barrels for collecting and slowing stormwater on their residential site by 5%.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Homeowners	8	Yes
Summary of Results: May 24, 26 & June 2: Participants were taught how to build a rain barrel with materials provided by the DBWP and Famicos Foundation. Two sessions occurred at the Nature Center at Shaker Lakes and one session at Gateway 105 Farmers Market.						
Comments:						
Riparian Habitat Maintenance	DBWP	Increase the number of student and resident participation from the City of Cleveland by 5% over the term of the permit.	Native plants and trees filter non-point source pollutants, decrease soil erosion, assist soil microbial life and promote biodiversity. Habitats other than lawn are preferable for healthy water quality. We all live in a watershed and our actions on the land directly affect the quality of our water	Watershed citizens & students	17	Yes

Summary of Results: March 6; April 10, 20, 24, 27; May 5, 8, 15, 22; June 5, 12, 19, 26; July 3, 10, 17, 24, 31; August 7, 14, 21, 28; September 18, 22; October 2, 9, 16, 23, 30; November 5; December 9: Students and volunteers removed invasive plants and planted native plants at historic sites on Lower Shaker Lake.

July 11: Students and volunteer removed invasive plants in Rockefeller Park near Rockefeller Lagoon.

April 30; June 18; July 30; August 20: Students and volunteers removed invasive plants and planted native plants at the first grow not mow site in Shaker Heights at the corner of Courtland Blvd. and South Park Blvd.

September 24: Volunteers removed invasive plants from Southerly site around the south branch of Doan Brook in celebration of National Public Lands Day.

September 30 & October 26: Shaker Heights High School students and teachers removed invasive plants and planted native plants along Doan Brook bordering the school campus.

October 15: Volunteers removed invasive plants and planted native plants at the second grow not mow site in Shaker Heights at the corner of Lee Road and South Park Blvd.

Comments:

PUBLIC INVOLVEMENT AND PARTICIPATION

Summarize activities you plan to undertake during the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate of People to Participate	Proposed Schedule
Stream Cleanup	CSWCD	Conduct at least one stream cleanup per year, with at least 10 people.	Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems. We all live in a watershed and our actions on the land directly affect the quality of our water.	The general public and users of the river/watershed resources (i.e. fishing clubs, canoeists/kayakers, hikers, scouts and birders.	10	2023

Summary of Planned Activities: At least one stream cleanup per year, with at least 10 participants

Comments:

Rain Barrel Installation & Rain Barrel Art	CSWCD	At least one rain barrel workshop will be conducted in the community.	<p>Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water</p>	Homeowners	10	2023
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Summary of Planned Activities: At least one Rain Barrel Workshop will be conducted in the community, with at least 10 participants. Each participant will construct a rain barrel to install at his/her residence.

Comments:

Watershed-friendly Landscaping and Sustainable Land Management	CSWCD	At least 1 commercial or institutional property owner or 2 community residents will install rain gardens or other sustainable landscapes, including reduction of turfed areas.	<p>Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	Commercial/Institutional properties/Homeowners	123	2023
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Summary of Planned Activities: At least 1 commercial or institutional property owner or 2 community residents will install rain gardens or other sustainable landscapes, including reduction of turfed areas.

Comments:

Tree Planting, Maintenance, Propagation, Pledges and Giveaways	CSWCD	Conduct at least one tree planting event	Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality. We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents, businesses, community organizations, churches, synagogues and other religious institutions. Especially those in riparian areas	10	2023
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Summary of Planned Activities: Conduct at least one tree-planting event, with at least 10 participants

Comments:

Green Yards & Healthy Homes Workshop	CSWCD	Conduct at least one workshop, reaching at least 10 residents	Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system. We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents, parent organizations, garden clubs	10	2023
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Summary of Planned Activities: Conduct at least one workshop, reaching at least 10 residents.

Comments:

Storm Drain Stenciling & Storm Drain Art	CSWCD	Conduct at least one stenciling event in the community	Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems. We all live in a watershed and our actions on the land directly affect the quality of our water.	Students, youth clubs, service clubs	10	2023
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Summary of Planned Activities: Conduct at least one stenciling event in the community, reaching at least 10 residents

Comments:

Citizen Participation in Watershed Planning and Management	CSWCD	At least one citizen participates in water quality monitoring, and/or at least 5 citizens provide input on a watershed or stormwater management plan for the community/watershed, or serve on the board of a community-based watershed organization.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents`	5	2023
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Summary of Planned Activities: At least one citizen participates in water quality monitoring, and/or at least 5 citizens provide input on a watershed or stormwater management plan for the community/watershed.

Comments:

Stormwater Pledges	CSWCD	<p>At least 10 citizens participate in a stormwater-related pledge to perform activities that benefit water quality.</p> <p>Pledge themes include: Litter, Sensible Salting, Tree Planting and Maintenance, Pick up Dog Waste, Watershed Champion (sustainable landscaping).</p>	<p>Road salt directly impacts aquatic life when it runs off into local streams. By adopting alternative deicing techniques and sensible salting strategies, the amount of road salt reaching local waterways will be reduced.</p> <p>Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.</p> <p>Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems.</p> <p>Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	Residents	10	2023
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Summary of Planned Activities: At least 10 citizens participate in a stormwater-related pledge to perform activities that benefit water quality.

Comments:

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Cite Local Code(s) Being Used (If available, web link for code(s))	Effective
Ordinance or Other Regulatory Mechanism	Water Pollution Control	Review City Codified Ordinance Chapter 541 annually for areas of improvement	Yes	https://codelibrary.amlegal.com/codes/cleveland/latest/cleveland_oh/0-0-0-28277	Yes

Summary of Results or Activities: CCO Chapter 541 governs Water Pollution Control operations. It is implemented and enforced daily.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Activities or Updates	Effective
Storm Sewer System Map	Water Pollution Control	Update storm sewer map quarterly	Yes	Water Pollution Controls GIS sewer infrastructure map was updated quarterly in 2022. Making strides to make sure what is depicted on our GIS correlates with the sewer infrastructure depicted on Northeast Ohio Regional Sewer District's GIS.	Yes

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Activities or Updates	Effective
HSTS Mapping and List	Water Pollution Control	Maps currently available	Yes	There are nine (9) know septic systems in the City of Cleveland. One of which is located in an MS4. This information is included in the GIS map of our sewer infrastructure.	Yes

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Activities or Updates	Effective
IDDE Plan	Water Pollution Control	Create case and begin investigating illicit discharges within 2 days of notification/discovery.	Yes	Sixteen (16) illicit discharge cases were investigated in 2022: 11 cases resolved by WPC (illicit discharge eliminated); 2 cases resolved by Northeast Ohio Regional Sewer District; and 3 cases still under investigation.	Yes

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Total # of Outfalls	# of Outfalls Screened	# of Dry-Weather Flows Identified	# of Identified Illicit Discharges	# of Eliminated Illicit Discharges	Effective
Dry-Weather Screening of Outfalls	Cuyahoga County Board of Health	Inspect all outfalls at least once during the permit term.	No	45	43	18	5	0	Yes

Comments:

Upload File Name for the Illicit Discharges: Schedule of IDDE Elimination.pdf

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Planned Activities	Comments	Effective
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No records found

ILLCIT DISCHARGE DETECTION & ELIMINATION (IDDE)

Summarize activities you plan to undertake for the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
Ordinance or Other Regulatory Mechanism	Water Pollution Control	Continue to comply with CCO Chapter 541	Continue to investigate illicit discharges and utilize CCO Chapter 541 to enforce violations.	Throughout 2023
Comments:				
Storm Sewer System Map	Water Pollution Control	Update sewer map at least once per quarter.	Review and update WPC's GIS map of sewer infrastructure at least once per quarter.	2023 - Q1, Q2, Q3 and Q4
Comments:				
HSTS Mapping and List	Water Pollution Control	Verify each HSTS by end of permit term.	Verify the existence and operability of all HSTS's in the City of Cleveland	Prior to end of 5 year permit term.
Comments:				
IDDE Plan	Water Pollution Control	Assess IDDE procedures at least once per year over the course of the permit term.	Update/revise IDDE Plan as necessary.	Annually
Comments:				
Dry-Weather Screening of Outfalls	Cuyahoga County Board of Health	Inspect all outfalls at least once per permit term.	Source trace previously identified outfalls with high E. coli counts.	Q2 2023
Comments:				

CONSTRUCTION SITE RUNOFF CONTROL

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Cite Local Code(s) Being Used (If available, web link for code(s))	Effective
Ordinance or Other Regulatory Mechanism	Department of Building & Housing (B&H)	Decrease violations of Codified Ordinances (CCO) Chapter 3116 by 5% over the permit term.	Yes	CCO Chapter 3116: https://codelibrary.amlegal.com/codes/cleveland/latest/cleveland_oh/0-0-0-49787	Yes
Summary of Results or Activities: See attached Cuyahoga Soil & Water Conservation District reports					
Comments:					
BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Standards Being Used	Effective
Sediment and Erosion Control Requirements	Department Building & Housing/Cuyahoga Soil & Water Conservation District	Decrease the number of violations of CCO Chapter 3116 by 5% over the permit term	No	OEPA Standards	Yes
Summary of Results or Activities: See attached report submitted by Cuyahoga Soil & Water Conservation District					
Comments:					

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Number of Complaints Received	Number of Complaints Followed Up On	Effective
Complaint Process	Department of Building & Housing/Cuyahoga Soil & Water Conservation District	Comply with local ordinance CCO Chapter 3116 (https://codelibrary.amlegal.com/codes/cleveland/latest/cleveland_oh/0-0-0-49787)	Yes	0	0	Yes

Summary of Results or Activities: No known complaints received related to erosion and sediment control implementation.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Sites Requiring Plans	# of Plans Reviewed	Effective
Site Plan Review Procedures	Department of Building & Housing/Cuyahoga Soil & Water Conservation District	Review all site plans with >1 acres earth disturbed area for compliance with CCO Chapter 3116 within 3 weeks of receipt (https://codelibrary.amlegal.com/codes/cleveland/latest/cleveland_oh/0-0-0-49787)	Yes	63	136	Yes

Summary of Results or Activities: Contract continued with Cuyahoga Soil & Water Conservation District to perform SWP3 reviews on all public and private building construction sites for MS4 and CSO areas that disturb more than one acre.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Applicable Sites	# of Sites Inspected	Average Frequency	Effective
Site Inspection Procedures	Department of Building & Housing/Cuyahoga Soil & Water Conservation District	Inspect all sites that have >1 acre earth disturbance monthly, to ensure compliance with CCO Chapter 3116 & OHC000005.	Yes	112	779	7	Yes

Summary of Results or Activities: In 2022, there were 112 active sites that required inspecting. Each site was inspected on average 6.95 times that totaled 779 inspections.

Comments:

Upload File Name(s) for Applicable Sites: CSWCD SWP3 Inspections.pdf

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Violation Letters	# of Enforcement Actions	Effective
Enforcement Procedures	Department of Building & Housing/Cuyahoga Soil & Water Conservation District	Ensure that sites not in compliance with CCO Chapter 3116 & OHC000005 are brought into compliance within the specified time frame.	Yes	20	1	Yes

Summary of Results or Activities: Only 1 violation of non-compliance resulted in an enforcement action in 2022. The site in violation was brought up to code without escalation.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Measurements	Effective
No records found					

CONSTRUCTION SITE RUNOFF CONTROL

Summarize activities you plan to undertake during the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
Ordinance or Other Regulatory Mechanism	Department of Building & Housing	Continue to comply with CCO Chpt 3116.	Evaluate effectiveness of ordinance to ensure compliance with General NPDES/MS4 permit.	Prior to end of Q4 2023

Comments:

Sediment and Erosion Control Requirements	Department of Building & Housing/CSWCD	Continue to comply and enforce CCO Chpt 3116 and reduce the number of repeat inspections by 5% over the permit term.	Continue to use the existing ordinance.	Throughout 2023
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Comments:

Complaint Process	Department of Building & Housing/Cuyahoga Soil & Water Conservation District	TBD	Continue to utilize B&H's complaint intake procedures	Throughout 2023.
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Comments:

Site Plan Review Procedures	Department of Building & Housing/CSWCD	Review all site plans for public and private projects in the City of Cleveland that disturb more than one acre within 3 weeks.	Continue to contract with CSWCD to perform SWP3 reviews on all public and private building construction sites that disturb more than one acre in the the City of Cleveland.	Throughout 2023.
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Comments:

Site Inspection Procedures	Department of Building & Housing/CSWCD	Conduct monthly site inspections for all public & private sites that disturb >1 acre in the City of Cleveland.	Continue to contract with CSWCD to perform SWP3 site inspections on all public and private building construction sites that disturb more than one acre in the the City of Cleveland.	Throughout 2023.
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Comments:

Enforcement Procedures	Department of Building & Housing	Generate 0 repeat enforcement notices for the same violation on the same project.	Continue to use CCO Chapter 3116 to enforce violations.	Throughout 2023
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Comments:

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Cite Local Code(s) Being Used (If available, web link for code(s))	Effective
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Ordinance or Other Regulatory Mechanism	Department of Building & Housing	Modify Cleveland Codified Ordinances (CCO) Chapter 3116 to reflect new NPDES/MS4 permit changes	Yes	https://codelibrary.amlegal.com/codes/cleveland/latest/cleveland_oh/0-0-0-20391		Yes	
Summary of Results or Activities: City of Cleveland Council amended various sections of CCO Chapter 3116 to include long term operation and maintenance of post-construction runoff controls, including provisions for when the property changes ownership.							
Comments:							
BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Structural and/or Non-Structural Standards Being Used		Effective	
Post-Construction Requirements	Department of Building & Housing/CSWCD	Comply with OHC000005 permit requirements on all sites that disturb more than 1 acre, including projects that are less than one acre but are part of a larger common plan of development.	Yes	OEPA Standards		Yes	
Summary of Results or Activities: City continues to use CCO Chpt. 3116 to govern post-construction activities.							
Comments:							
BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Applicable Sites Requiring Plans	# of Plans Reviewed	Effective	
Site Plan Review Procedures	Department of Building & Housing/CSWCD	Review all site plans with Post-Construction requirements that disturb more than one acre in 3 weeks or less.	Yes	63	136	Yes	
Summary of Results or Activities: CSWCD reviewed SWP3 for all public and private construction sites that disturb more than 1 acre.							
Comments:							
BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Applicable Sites	# of Inspections Performed	Average Frequency	Effective
Site Inspection Procedures	Department of Building & Housing/CSWCD	Inspect all sites at least once per for compliance with post-construction requirements.	Yes	108	108	1	Yes
Summary of Results or Activities: All sites with post-construction stormwater control measures were inspected on average once per month in 2022.							
Comments:							
BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Violation Letters	# of Enforcement Actions	Effective	
Enforcement Procedures	Department of Building & Housing/CSWCD	Reduce the the number of repeat offenses on the same project by 5% over the permit term	No	32	0	Yes	
Summary of Results or Activities: The City continued its contract with CSWCD to inspect stormwater control measure and provide follow-up assistance to landowners to achieve compliance. Letters describing the non-compliance issue were sent to all landowners.							
Comments:							
BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Sites Requiring Plans/Agreements	# of Plans Developed/Agreements in Place	Effective	

Long-Term O&M Plans/Agreements	Department of Building & Housing	Develop and implement changes to the existing codified ordinances that govern post-construction activities to include long-term O&M for run-off control prior to the end of Q4.	Yes	63	63	Yes
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Summary of Results or Activities: 63 LTOM agreements were completed and in place during 2023.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Measurement 1	Measurement 2	Effective
No records found						

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

Summarize activities you plan to undertake for the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
Site Plan Review Procedures	Department of Building & Housing/CSWCD	Inspect all sites at least once a month for compliance with post-construction run-off controls.	Review site plans with post-construction requirements that disturb more than one acre or more.	Throughout 2023

Comments:

Site Inspection Procedures	Department of Building & Housing/CSWCD	Inspect all site for compliance at least once per month.	Continue to contract with CSWCD to perform inspections of post-construction stormwater control measures on all public and private building construction sites that disturb more than one acre	Throughout 2023.
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Comments:

Enforcement Procedures	Department of Building & Housing	Track follow-up assistance and resulting maintenance each month.	Provide follow-up assistance and 2nd inspection to sites that are not functioning properly.	Throughout 2023.
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Comments:

Long-Term O&M Plans/Agreements	Department of Building & Housing	TBD	Provide maintenance agreement to be signed upon completion of plan review.	Throughout 2023
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Comments:

Ordinance or Other Regulatory Mechanism	Department of Building & Housing	Continue to comply with CCO Chpt. 3116	The city will continue to use the the existing ordinance for post-construction.	Throughout 2023.
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Comments:

Post-Construction Requirements	Department of Building & Housing/CSWCD	Comply with OHC000005 permit requirements on all sites that disturb more than 1 acre, including projects that are less than one acre but are part of a larger common plan of development.	Continue to use CCO Chpt. 3116 to govern post-construction activities.	Throughout 2023.
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Comments:

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Topic(s)	Targeted Audience	# of Employees Attended	Effective
Pollution Prevention & Good Housekeeping Training	Department of Public Works	Conduct at least one training session per year to a combined audience of municipal personnel.	Yes	Best management practices at municipal facilities; Stormwater Pollution Prevention Plans (SWP3s); Spill prevention/clean up	Public Works supervisory staff	44	Yes

Summary of Activity: On December 15, 2023, three (3) training courses were held in a breakout room at the City of Cleveland Public Auditorium. Topics covered included: stormwater/NPDES permit; illicit discharges; effects of stormwater pollution; illicit discharge detection & elimination; potential pollution sources in municipal operations; and best management practices.

Comments:

BMP (mechanism)	List of Municipal Facilities Subject to Program	O&M Procedures Developed?	# of Inspections Performed	Frequency of Inspections
Municipal Facilities	See attached list	Yes	4	Quarterly
BMP (mechanism)	Summarize Maintenance Activities and Schedules	Summarize Activities Performed		
MS4 Maintenance	Implement SWP3 program at municipal facilities in MS4 areas to reduce and/or prevent pollutant runoff from specified activities. Completed 2 additional SWPs for City of Cleveland Fire Stations (Enginehouse #6 and 43).	The Department of Public Works purchased 45 Advanced Drainage System (ADS) catch basin inserts for the entire Ridge Road Transfer Station campus to assist with collecting debris and hydrocarbons before it enters the drainage collection system		
BMP (mechanism)	Procedures Developed?	Document Amounts of Wastes Properly Disposed		
Disposal of Wastes	Yes	Invoices of disposed MSW available upon request. Environmental health inspection performed quarterly. EPA inspections performed annually.		
BMP (mechanism)	Covered?	Tons Used	Summarize Measures Taken to Minimize Usage	
Road Salt	Yes	28000 Tons	Continue sensible salting practices city-wide; Installation of salt brine equipment and vehicle upgrades for dispensing of deicer liquids.	
BMP (mechanism)	Procedures Developed?	Gallons Used	Summarize Measures Taken to Minimize Usage	
Pesticide & Herbicide Usage	No	0 Gallons	The City of Cleveland does not utilize pesticides nor herbicides.	
BMP (mechanism)	Procedures Developed?	Pounds Used	Summarize Measures Taken to Minimize Usage	
Fertilizer Usage	No	0 Pounds	The City of Cleveland does not utilize fertilizer.	
BMP (mechanism)	Procedures Developed?	Document Amount of Material Collected and Properly Disposed		
Street Sweeping	Yes	Material amounts not calculated. All residential streets were swept twice between the months of April through October. All main streets collectors and underpasses were swept a minimum of twice per month between the months of April through October. In addition to the systemic sweeping program, all special events were scheduled for service accordingly. Frequency of sweeping increased by 20%.		

BMP (mechanism)	Summarize Any New or Existing Flood Management Projects that were Assessed for Impacts on Water Quality
Flood Management Projects	N/A
BMP (mechanism)	Summary
Catch Basin Cleaning	The City of Cleveland cleaned 11,609 catch basins in 2022.

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Summarize activities you plan to undertake for the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
Road Salt	Department of Public Works	Continue to reduce the amount of road salt used by 5%.	Allocate capital funds for repairs to salt domes. find other methods to de-ice.	Throughout 2023.

Comments:

Pesticide & Herbicide Usage	Department of Public Works	0 pesticide & herbicide usage	Continue to not use pesticides and Herbicides in the City of Cleveland.	2023
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Comments:

Street Sweeping	Department of Public Works	Sweep all city street a minimum of 3 times/year.	Perform street sweeping activities on a weekly basis.	Sweep residential streets twice between the months of April through October. Sweep all main streets and underpasses a minimum of twice per month between the months of April through October. In addition to the systemic sweeping program, sweep in areas of all special events accordingly.
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Comments:

Flood Management Projects	Water Pollution Control	Reduce the number of street flooding 5-10% over the permit term	Perform capital improvement projects to minimize street and basement flooding in designated areas.	2023
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Comments:

Fertilizer Usage	Department of Public Works	0 fertilizer usage in the City of Cleveland	Continue to not use fertilizers in the City of Cleveland	2023
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Comments:

Disposal of Wastes	Department of Public Works	Increase the amount of recycled material leaving the waste stream by 5%.	Re-energize citywide recycling efforts	Throughout 2023
Comments:				
Municipal Facilities	Department of Public Works	Increase pollution prevention & good housekeeping awareness among municipal personnel by 5%	Increase training frequency	2/year
Comments:				
MS4 Maintenance	Department of Public Works	Install all 45 catch basin insert by the end of the 2nd quarter of 2023	Install 45 catch basin inserts on the Ridge Road Transfer Station campus and determine the frequency with which the inserts should be cleaned	By June 2023
Comments:				
PROPOSED CHANGES TO YOUR SWMP (IF ANY)				
<i>Summarize any proposed changes to your SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements. If you fail to satisfy measurable goals for the reporting year, please explain why.</i>				
VARIANCES GRANTED (IF ANY)				
<i>Identify and summarize any variances granted under your storm water program.</i>				
ADDITIONAL INFORMATION				
<i>Please add any additional comments or attachments below.</i>				
Additional Information attachment(s): Table 2 - City Facilities in MS4 - Stormwater Pollution Prevention Plan (SWP3s).pdf , CSWCD Plan Review.pdf , CCBH - Sampling Summary Report.pdf , CSWCD LTOM.pdf , CCBH - Sampling Inspection Detailed Report.pdf , PP & GH Training Sign-In Sheet.pdf , CSWCD NODs.pdf				