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Cover: Fisherman and Great Blue Heron on a pier in Lake Erie. Cover Photo: Posnov/Getty Images

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List of Acronyms

AOC - area of concern

 $\label{eq:BAT-best-available} BAT-best available technology economically achievable$

BCT – best conventional pollutant control technology

BOD - biochemical oxygen demand

CAFO – concentrated animal feeding operation

CSO – combined sewer overflow

CSS – combined sewer system

CWA - Clean Water Act

EPA – U.S. Environmental Protection Agency

GLNPO - Great Lakes National Program Office

GLRI - Great Lakes Restoration Initiative

LTCP - long-term control plan

MAG – management advisory group

MG - million gallons

MGD – million gallons per day

MS4 - municipal separate storm sewer system

NA – not applicable

NMC – nine minimum controls

NPDES – National Pollutant Discharge Elimination System

POTW - publicly owned treatment works

SSO – sanitary sewer overflow

SSS - separate sanitary sewer

TARP - Tunnel and Reservoir Plan

TSS – total suspended solids

WWTP - wastewater treatment plant

WQS - water quality standards

Executive Summary

There are 184 combined sewer systems (CSS) in the Great Lakes Basin designed to collect and transmit both wastewater and stormwater to a publicly owned treatment works (POTW) through a single network of pipes. Wet weather events can cause combined sewer overflows (CSO) when the stormwater entering the CSS exceeds the capacity of the collection system. CSO events can be detrimental to human health and the environment because they introduce pathogens, bacteria and other pollutants to receiving waters, causing beach closures, contaminating drinking water supplies, and impairing water quality. Fish and other aquatic populations also can be impacted by the depleted oxygen levels that can be caused by CSOs.

This Report to Congress presents the U.S. Environmental Protection Agency's (EPA) most recent assessment of the implementation status of CSO long-term control plans (LTCPs) in the Great Lakes Basin, as well as a summary of existing data on the CSO discharge volume in the basin during calendar year 2014.

Data Collection Methodology

EPA's methodology for data collection focused on obtaining existing data from federal and state sources. Data were collected through a combination of direct data requests to the states and research of previously published or available federal, state, and local government and nongovernmental agency sources. EPA compiled an initial CSO inventory based on its in-house data and used the inventory to develop a data collection template spreadsheet for each of the seven states that have CSO discharges in the Great Lakes Basin. EPA sent the template spreadsheet to the seven states and then held a series of conference calls with those states and their EPA regions to discuss how to update and complete the spreadsheet. Lastly, EPA evaluated the returned state spreadsheets for consistency with the data collection instructions.

Statutory and Regulatory Requirements For CSOs

EPA issued a CSO Control Policy on April 19, 1994 (59 FR 18688, April 19, 1994). The CSO Control Policy "represents a comprehensive national strategy to ensure that municipalities, permitting authorities, water quality standards authorities, and the public engage in a comprehensive and coordinated effort to achieve cost-effective CSO controls that ultimately meet appropriate health and environmental objectives."

In the Consolidated Appropriations Act for Fiscal Year 2001, P.L. 106-554, Congress amended the Clean Water Act (CWA) to add Section 402(q), which provided that "...each permit, order, or decree issued pursuant to this Act after the date of enactment of this subsection for a discharge from a municipal combined storm and sanitary sewer shall conform to the CSO Control Policy signed by the Administrator on April 11, 1994."

Status of LTCPs in the Great Lakes Basin

LTCPs or other alternative CSO control plans are required for 183 of 184 (99 percent) of the CSO communities located in seven states throughout the Great Lakes Basin (Table ES-1). These communities have submitted 181 LTCPs or other alternative CSO control plans and 178 have been approved. New York, Pennsylvania, Michigan, Illinois, and Wisconsin have all CSO communities in the Great Lakes Basin in their state operating under approved LTCPs or other alternative CSO control plans. Ohio has received 52 LTCPs and has not received an LTCP from 2 CSO communities. Ohio has approved 50 of the 52 LTCPs it has received. Indiana has received 26 LTCPs and has not received an LTCP from one CSO community. Indiana has approved 25 of the 26 LTCPs it has received.

Similarly to Table ES-1, Table ES-2 presents the information about CSOs but summarized by the Great Lake to which they drain rather than by state.

CSOs in the Great Lakes Basin During 2014

The seven states reported 1,482 events where untreated wastewater was discharged from CSOs in the Great Lakes Basin in 2014 (Table ES-1). Ohio reported 824 untreated CSO events; however, the state had only partial data available on CSO events for five communities. Michigan reported 273 untreated CSO events and New York reported 376 untreated CSO events. New York had no readily available data for three communities. Pennsylvania reported seven untreated CSO events, while Illinois and Wisconsin each reported one untreated CSO event. Indiana did not have data readily available on the number of CSO events for 20 of the 27 communities discharging CSOs into the Great Lakes Basin. Indiana reported no overflow events for the 7 communities for which it reported.

The states reported an estimated volume of 22 billion gallons (BG) of untreated wastewater discharged from CSOs into the Great Lakes Basin in 2014 (Table ES-1). However, Ohio had only partial data available on CSO volume for eight communities and New York had no data available for five communities. Michigan reported that CSOs in the state discharged a volume of 8.8 BG of untreated wastewater, Indiana reported that CSOs in the state discharged a volume of 8.1 BG of untreated wastewater, Ohio reported that CSOs in the state discharged a volume of 3.2 BG of untreated wastewater (Ohio had no available data on untreated CSOs from eight communities), New York reported that CSOs in the state discharged a volume of 1.8 BG of untreated wastewater (New York had no available data for 5 CSO communities), Illinois reported that CSOs in the state discharged a volume of 500 MG of untreated wastewater, Wisconsin reported that CSOs in the state discharged a volume of 30,000 gallons of untreated wastewater and Pennsylvania reported that CSOs in the state discharged a volume of 10,000 gallons of untreated wastewater.

The seven states reported 187 events where CSOs discharged treated wastewater in the Great Lakes Basin in 2014 (Table ES-1). Ohio reported 27 treated CSO events; however, the state had only partial data available on CSO events for five communities. Michigan reported 160 treated CSO events. New York, Pennsylvania, Illinois, Indiana, and Wisconsin reported no treated CSO events in 2014. However, New York did not have data readily available for three communities and Indiana did not have data readily available for 20 of the 27 communities discharging CSOs into the Great Lakes Basin.

The states reported an estimated volume of 26 BG of wastewater that was treated with a minimum of primary treatment (or its equivalent) and disinfected was discharged from CSOs into the Great Lakes Basin in 2014 (Table ES-1). However, Ohio had no available data for five communities. Michigan reported that CSOs in the state discharged a volume of 25 BG of treated wastewater, Ohio reported that CSOs in the state discharged a volume of 400 MG of treated wastewater (Ohio had no available data on treated CSOs from eight communities), and Indiana reported that CSOs in the state discharged a volume of 20 MG of treated wastewater.

Table ES-2 presents the results discussed above by Great Lake. Figure ES-1 depicts the volumes of treated and untreated CSO volumes by state. Figure ES-2 depicts the same information by lake.

Table ES- 1. Summary of LTCP Status and 2014 CSO Events and Volume by State for States in Great Lakes Basin

| State | CSO Communities | LTCPs Required/ Approved | 2014 Treated CSO Events | 2014 Treated Discharge Volume (MG) | 2014 Untreated CSO Events | 2014 Untreated Discharge Volume (MG) |
|--------------|--------------------|--------------------------------|----------------------------|--|---------------------------------|--|
| New York | 13 | 13/13 | O a | Op | 376a | 1,800b |
| Pennsylvania | 1 | 1/1 | 0 | 0 | 7 | 0.1 |
| Ohio | 54 | 53/50 | 27 | 400 | 824 ^c | 3,200 ^d |
| Michigan | 46 | 46/46 | 160 | 25,200 | 273 | 8,800 |
| Indiana | 27 | 27/25 | Oe | 20 | Oe | 8,100 |
| Illinois | 41 ^f | 41/41 | 0 | 0 | 1 g | 500 |
| Wisconsin | 2 | 2/2 | 0 | 0 | 1 | 0.3 |
| Totals | 184 | 183/178 | 187 | 26,000 | 1,482 | 22,000 |

^aThree communities in New York had no readily available data on the number of CSO events in 2014.

^bFive New York communities (Clayton Village, Ogdensburg, the Frank E. VanLare STP in Rochester, Lockport, and Niagara Falls) had no readily available data on CSO volumes.

Five Ohio communities [Elyria, Oak Harbor, Tiffin, Bucyrus, and Northeast Ohio Regional Sanitation District (Cleveland)] had no available data on the number of untreated CSO events in 2014.

^dEight Ohio communities [Avon Lake, Crestline, Elyria, Oak Harbor, Tiffin, Bucyrus, Lima, and Northeast Ohio Regional Sanitation District (Cleveland)] had no available data on untreated CSO volume.

e20 Indiana communities had no readily available data on the number of CSO events in 2014.

fincludes the City of Chicago and 40 satellite communities within the Tunnel and Reservoir Plan (TARP) adopted by the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC).

Illinois reported 41 CSO events from TARP in 2014. However, most of the events go to Chicago-area rivers and only one event was to Lake Michigan.

Table ES- 2. Summary of LTCP Status and 2014 CSO Events and Volume by Lake for States in Great **Lakes Basin** 2014 **LTCPs** 2014 Treated 2014 CS₀ 2014 Treated Untreated **Great Lake** Required/ Discharge Untreated Communities **CSO Events** Discharge **Approved** Volume (MG) **CSO Events** Volume (MG) Ontario/St. 10 10/10 ()a **(**)b 74a 150b Lawrence Seaway Erie 93 92/89 162c 24,700^d 1,334c,e 16,400^{d,f}

183/178

6/6

72/70

3/3

11

8g

6

187

800

10

200

26,000

1

73g,h

0

1,482

0.4

5,900

0

22,000

6

72

3

184

Huron

Michigan

Superior

Totals

^aTwo communities in New York discharging into Lake Ontario/St. Lawrence Seaway had no available data on the number of treated or untreated CSO events.

^bFour communities in New York discharging into Lake Ontario/St. Lawrence Seaway had no available data on the volume of treated or untreated CSO events.

One New York community and six Indiana communities discharging into Lake Erie had no available data on the number of treated or untreated CSO events.

^dOne community in New York discharging into Lake Erie had no available data on the volume of treated or untreated CSO events.

^eFive Ohio communities discharging into Lake Erie had no available data on the number of untreated CSO events.

Eight Ohio communities discharging into Lake Erie had no available data on the volume of untreated CSO events.

^{\$14} Indiana communities discharging into Lake Michigan had no available data on the number of treated or untreated CSO events.

hIllinois reported 41 CSO events from TARP in 2014. However, most of these events go to Chicago-area rivers and only one discharged to Lake Michigan.

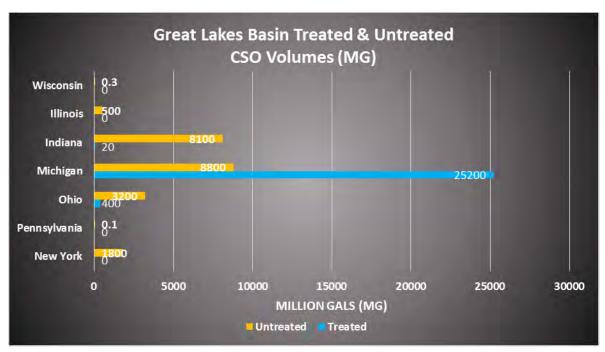


Figure ES-1 2014 CSO Volume by State

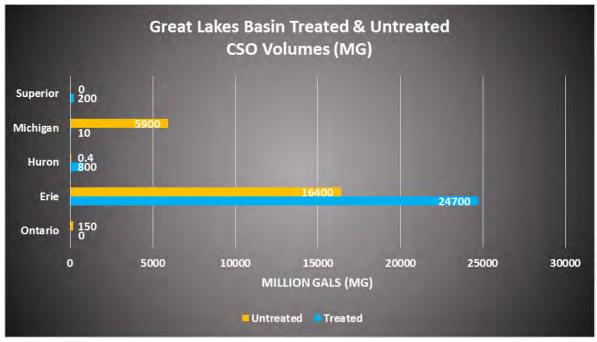


Figure ES-2 2014 CSO Volume by Great Lake

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1 Introduction and Background

1.1 Why Is EPA Preparing this Report to Congress?

In the Consolidated and Further Continuing Appropriations Act, 2015, Congress directed the U. S. Environmental Protection Agency (EPA) to provide available information on the status of the Combined Sewer Overflow (CSO) Long Term Control Plans (LTCPs) for each CSO community in the Great Lakes Basin. In addition, Congress requested a summary of the annual CSO discharge volumes in the Basin during 2014. The Act provides:

CSOs are a major contributor to water quality issues in the Lake Michigan Basin and it is noted that many communities have made strides to update wastewater infrastructure to mitigate the impact of CSOs. As such, the Agency is directed to provide a report based on available data indicating, for each CSO community in the Great Lakes Basin, the implementation status of each CSO long term control plan. Additionally, the report should include a summary of annual discharge volumes.

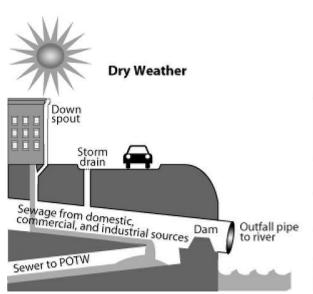
EPA published three previous Reports to Congress that addressed CSO issues:

- <u>Report to Congress—Implementation and Enforcement of the Combined Sewer Overflow Control Policy (EPA 2001b)</u>, about progress made by EPA, states, and municipalities in implementing and enforcing the CSO Control Policy.
- <u>Report to Congress—Impacts and Control of CSOs and SSOs</u> (EPA 2004), about the characteristics and impacts that CSOs have on receiving waters and human health and technologies used to control CSOs.
- <u>Report to Congress—Combined Sewer Overflows to the Lake Michigan Basin</u> (EPA 2007), about EPA's assessment of CSO events in the Lake Michigan Basin, the enforcement of existing regulations concerning such discharges, and the future steps EPA planned to take to minimize such overflows.

1.2 The Challenges of Combined Sewer Systems and Combined Sewer Overflows

There are two types of public wastewater collection systems in the United States: combined sewer systems (CSS) and separate sanitary sewers (SSS). CSSs were among the earliest sewer systems constructed in the United States until the first part of the twentieth century. In contrast to SSSs, CSSs were specifically designed to collect wastewater and stormwater in a single-pipe system to transmit the combined waters to a publically owned treatment works (POTW) (see Figure 1-1).

Wet weather events (i.e., rain and snow events) can exceed the capacity of the CSS to convey wastewater through the system and cause CSOs. During wet weather, most CSSs are designed to discharge CSO flows directly to surface waters, including rivers, streams, estuaries, and coastal waters. A CSO discharge is defined as "the discharge from a CSS at a point prior to the POTW treatment plant."



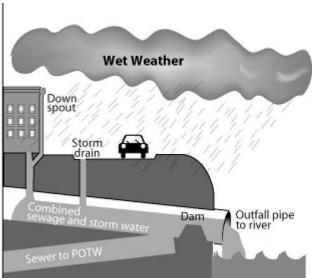


Figure 1-1. Typical Combined Sewer System.

Some CSO outfalls discharge infrequently, while others discharge every time it rains. Overflow frequency and duration vary from system to system and from outfall to outfall within a single system. When constructed, CSSs were commonly designed to handle between two and four times more than the average dry weather flow (Moffa 1997). Thus, there is usually considerable conveyance capacity within a CSS during dry weather. Consequently a CSS should not discharge during dry weather, but should convey flows to a treatment plant. One of the nine minimum controls (NMCs) of the CSO policy prohibits discharges from a CSS during dry weather.

CSO discharges that occur as the result of wet weather can include wastewater from domestic, commercial, and industrial sources as well as stormwater runoff. As a result, CSO discharges can contain the waste from these sources as well as pollutants washed from streets, parking lots, and other surfaces. CSO discharges vary greatly, both in terms of the specific pollutants in an individual CSO discharge and in the concentrations of those pollutants in the discharge (EPA 2004). Pollutant concentrations in CSO discharges depend on a number of factors, including the service population, the characteristics of the CSS, weather conditions, and any treatment provided to the CSO prior to discharge.

CSO discharges can cause or contribute to water quality impairments and potentially expose people to untreated sewage. Sewer overflows can also back up into residential homes, public buildings and commercial facilities.

CSO discharges that occur as the result of a wet weather event are point source discharges subject to National Pollutant Discharge Elimination System (NPDES) permit requirements including both technology-based and water quality-based requirements of the CWA. As of September 2015, 859 active NPDES permits for CSO discharges had been issued in 30 states plus the District of Columbia and Puerto Rico. Of these 859 CSOs, 184 are located in the Great Lakes Basin. NPDES permits for CSO discharges are issued to either:

- The operator of the wastewater treatment plant if the CSO outfall is owned and operated by the same entity as the treatment plant.
- The operator of a CSO outfall that operates a portion of a CSS that conveys flows to a wastewater treatment plant that is owned and operated by a separate entity.

Most of the communities served by CSSs are located in the Northeast and Great Lakes regions, as shown in Figure 1-2. Additional information on CSOs is provided in *Report to Congress—Impacts and Control of CSOs and SSOs* (EPA 2004).

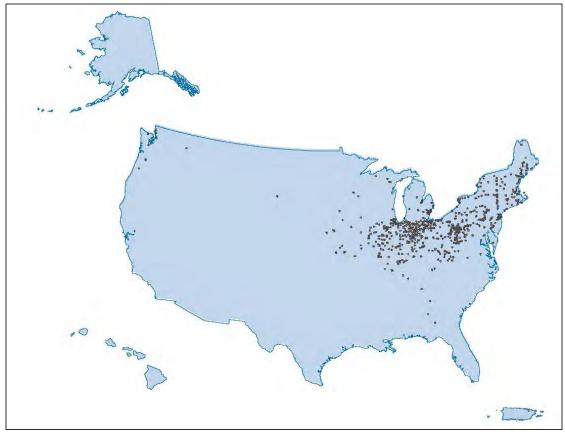


Figure 1-2. National Distribution of CSSs.

1.3 What is the "Great Lakes Basin"?

The Great Lakes Basin is the connected watershed of lakes Erie, Huron, Michigan, Ontario (including the St. Lawrence Seaway), and Superior. Together, the Great Lakes span both the United States and Canada and drain an area of over 200,000 square miles (Table 1-1). The portion of the basin that lies in the United States is approximately 111,548 square miles, exclusive of the St. Lawrence Seaway area (Figure 1-3). As shown in the figure, the basin reaches into eight states (i.e., New York, Pennsylvania, Ohio, Michigan, Indiana, Illinois, Wisconsin, and Minnesota¹) and includes many major cities. The Great Lakes Basin has relatively undeveloped portions in its northern reach, but is also home to major metropolitan areas including Chicago, Illinois; Milwaukee, Wisconsin; Detroit, Michigan; Cleveland, Ohio; and Buffalo, New York. In total, more than 30 million people live within and impact the environment of the Great Lakes Basin.

¹ There are no CSO communities discharging to the Great Lakes Basin in Minnesota. The only remaining CSO community in Minnesota is designed to discharge to the Mississippi River. Therefore, no results are provided for Minnesota in this report.

The Great Lakes provide immeasurable value. They contain approximately 84 percent of the fresh surface water in the United States. They provide sustenance and drinking water for millions of people, support recreation and tourism, and provide transportation of materials and goods for industry. As many as 1.5 million jobs are supported by the Great Lakes, contributing to an estimated \$62 billion in annual wages (EPA 2015a).

| Table 1-1. Drainage Areas and Other Data for the Great Lakes | | | | | | | | | |
|--|-----------------|------------------|------------------|---------------|-----------|---------------------------|---------|--|--|
| Feature | Unit | Lake Superior | Lake Michigan | Lake Huron | Lake Erie | Lake Ontario ^a | Total | | |
| Drainage Area (U.S. Only) | square miles | 16,628 | 44,878 | 15,878 | 21,598 | 12,566 | 111,548 | | |
| Drainage Area (Total: U.S. and Canada) | square miles | 49,300 | 45,600 | 51,700 | 30,140 | 24,720 | 201,460 | | |
| Surface Area | square miles | 31,700 | 22,300 | 23,000 | 9,910 | 7,340 | 94,250 | | |
| Volume | cubic miles | 2,900 | 1,180 | 850 | 116 | 393 | 5439 | | |
| Average Depth | feet | 483 | 279 | 195 | 62 | 283 | - | | |

Note:

^a While the St. Lawrence Seaway is included with Lake Ontario for the purposes of assigning CSOs to the Great Lakes, the data in this table are for Lake Ontario only.

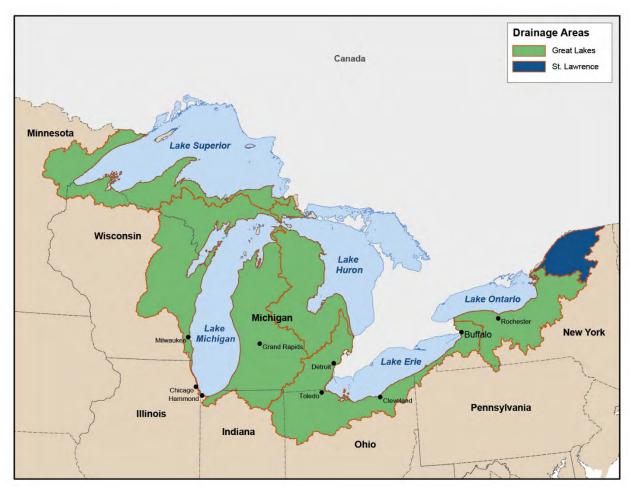


Figure 1-3. Drainage Area of the Great Lakes Basin in the United States.

1.4 How Do CSOs Impact the Great Lakes?

EPA has documented in earlier Reports to Congress that CSOs can cause human health and environmental impacts (EPA 2001b, 2004). CSOs are one of many pollutant sources that impact the Great Lakes. Other point sources include wastewater treatment facilities, stormwater discharges [e.g., from municipal separate storm sewer systems (MS4s)], and concentrated animal feeding operations (CAFOs). Nonpoint sources of pollution include agricultural runoff, atmospheric pollution, legacy pollutants, and natural background sources. As shown in Figure 1-4, CSO communities are scattered across the Great Lakes Basin, with the greatest concentration in Ohio, southeastern Michigan, and northeastern Indiana discharging to Lake Erie, and in northern Indiana and southwestern Michigan discharging to Lake Michigan.

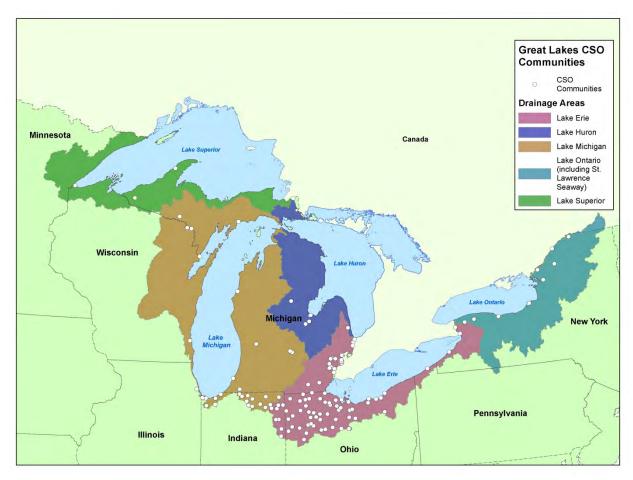


Figure 1-4. CSO Communities in the Great Lakes Basin.

CSOs often discharge simultaneously with other wet weather sources of water pollution, including stormwater discharges from municipal separate storm sewer system (MS4s) and other sources, wet weather sanitary sewer overflows (SSOs) from SSSs, and other nonpoint sources of pollution. The combined effect of the wet weather pollution can make it difficult to identify and assign specific cause-and-effect relationships between CSOs and observed water quality problems. The environmental impacts of CSOs are most apparent at the local level (EPA 2004).

1.5 The Federal Framework for CSO Control

The Clean Water Act (CWA) establishes national goals and requirements for maintaining and restoring the nation's waters. CSO discharges are subject to the technology-based and water quality-based requirements of the CWA. CSOs are not subject to limits based on secondary treatment requirements applicable to POTWs. Technology-based effluent limits for CSO discharges are based on the application of best available technology economically achievable (BAT) for toxic and nonconventional pollutants and best conventional pollutant control technology (BCT) for conventional pollutants. BAT and BCT effluent limits are determined based on "best professional judgment." Permits authorizing discharges from CSO outfalls must include more stringent water quality-based requirements, when necessary, to meet water quality standards (WQS).

For more information about the development of the federal framework to address CSOs and CSO control history see, *Report to Congress—Implementation and Enforcement of the Combined Sewer Overflow Control Policy* (EPA 2001b).

1.5.1 CSO Control Policy

EPA issued the CSO Control Policy on April 19, 1994 (59 FR 18688, April 19, 1994). The CSO Control Policy "represents a comprehensive national strategy to ensure that municipalities, permitting authorities, WQS authorities, and the public engage in a comprehensive and coordinative effort to achieve cost-effective CSO controls that ultimately meet appropriate health and environmental objectives." The policy assigns primary responsibility for implementation and enforcement to NPDES authorities and water quality standards authorities.

The policy also established objectives for CSO communities: 1) to implement the NMCs and submit documentation on NMC implementation; and 2) to develop and implement a long-term CSO control plan (LTCP).

The policy provides that permittees with CSOs are responsible for developing and implementing an LTCP that includes measures to ultimately result in compliance with the requirements of the CWA, including water quality-based requirements. The policy identified the following nine minimum elements that an LTCP should address:

- Characterization, monitoring, and modeling of the CSS;
- Public participation;
- Consideration of sensitive areas;
- Evaluation of alternatives;
- Cost/performance considerations;
- Operational plan;
- Maximization of treatment at the POTW treatment plant;
- Implementation schedule; and
- Post-construction compliance monitoring program.

The policy provides that at the discretion of the NPDES Authority, jurisdictions with populations under 75,000 may not need to complete each of the LTCP elements outlined above. In addition, the policy provides that the NPDES permitting authority may determine that some of the LTCP elements listed above should not apply to certain permittees that had addressed their CSOs before the policy was issued.

1.5.2 Wet Weather Water Quality Act

In December 2000, as part of the Consolidated Appropriations Act for Fiscal Year 2001 (P.L. 106-554), Congress amended the CWA by adding Section 402(q). This amendment is commonly referred to as the "Wet Weather Water Quality Act of 2000." It requires that each permit, order, or decree issued pursuant to the CWA after the date of enactment for a discharge from a municipal CSS shall conform to the CSO Control Policy.

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2 Methodology

2.1 Data Collection Method

The data collection supporting this report emphasized collecting readily available data from federal, state, and local sources. Subsequent to the directive from Congress to develop this report, EPA conducted initial discussions with the states by telephone and e-mail to get preliminary feedback on the types of data relating to CSO communities that were available. EPA compiled an initial CSO inventory based on its inhouse data and used this inventory to develop and populate a data collection template for state information. The collection template included three spreadsheets:

- The Data Collection Template spreadsheet, which included fields for all elements to be completed/updated by the states. In cases in which EPA had draft data from the states, draft data were included in the appropriate field, and states were asked to review and update them as necessary. In cases where no draft data were available, the fields were left blank and states were instructed to provide the information.
 - In many cases, updates were made from prepopulated data choices accessible from dropdown menus [e.g., Yes, No, or Not Applicable (NA) options]. That approach helped ensure consistency of data between states. In other cases, the state was able to enter information without restriction.
- The Instructions spreadsheet contained specific instructions for each element to be completed on the Data Collection Template spreadsheet.
- The Definitions spreadsheet included definitions of key terms to help states complete the Data Collection Template spreadsheet. The definitions were intended to ensure that all states interpreted terms in a consistent manner and completed the data updates in a way that would be comparable across all states.

Data returned by the states were evaluated for consistency with the Data Collection Template spreadsheet instructions. Because there is no specific guidance in the CSO Control Policy for CSO data collection, reporting, or CSO volume quantification, information collected by the responsible agencies varies greatly among states. Therefore, while the emphasis remained on collecting only readily available details (i.e., states were not requested to do additional collection or research to find requested data if they were not immediately available), EPA reviewed the data the states returned to ensure they complied with the data request—particularly with respect to the instructions and definitions included in the Data Collection Template spreadsheet. EPA made requests for clarification to the states as necessary.

2.2 What Data Were Collected?

Data collected included information on CSO permittees, their discharge locations, the status of LTCPs and post-construction compliance monitoring programs, historical and anticipated future CSOs, and 2014 CSOs. The various data collected are summarized in Tables 2-1 through 2-4.

Table 2-1. Data on CSO Permittees

Data Element

EPA Region

State

Name of municipal operator of CSS

NPDES permit number

Name of Great Lake to which Permittee discharges

Does the CSO discharge directly into a Great Lake?

If not a direct discharge to a Great Lake, then provide the name of water body to which direct discharges occur

Population served by CSS

Population served by wastewater treatment plant (WWTP)

Design capacity of WWTP [million gallons per day (MGD)]

Table 2-2. Data on LTCPs

Data Element

LTCP required (Y/N/NA)

Alternative CSO Control Plan instead of LTCP (Y/N)

Description of alternative CSO Control Plan

CSO Control Plan (LTCP or alternative CSO control plan) submitted (Y/N)

CSO Control Plan (LTCP or alternative CSO control plan) approved (Y/N)

CSO Control Plan (LTCP or alternative CSO control plan) approval date

Projected date for full implementation of LTCP or alternative CSO Control Plan

CSO Control Plan (LTCP or alternative CSO Control Plan) milestones

Table 2-3. Data on Post-Construction Compliance Monitoring Programs

Data Element

Post Construction Compliance Monitoring Plan required (Y/N)

Post Construction Compliance Monitoring Plan submitted (Y/N))

Post Construction Compliance Monitoring Plan approved (Y/N)

Post Construction Compliance Monitoring Plan approval date

Table 2-4. Data on CSOs

Data Element

Average annual number of CSO events before implementation of CSO Control Plan (LTCP or alternative CSO control plan) (Treated)

Average annual number of CSO events before implementation of CSO Control Plan (LTCP or alternative CSO Control Plan) (Untreated)

Average annual historic volume of CSOs before implementation of CSO Control Plan (LTCP or alternative CSO Control Plan) (MG/yr) (Treated)

Average annual historic volume of CSOs before implementation of CSO Control Plan (LTCP or alternative CSO Control Plan) (MG/yr) (Untreated)

Average annual number of CSO events after implementation of CSO Control Plan (LTCP or alternative CSO Control Plan) (Treated)

Average annual number of CSO events after implementation of CSO Control Plan (LTCP or alternative CSO Control Plan) (Untreated)

Average annual volume of CSOs anticipated after implementation of CSO Control Plan (LTCP or alternative CSO Control Plan) (MG/yr) (Treated)

Average annual volume of CSOs anticipated after implementation of CSO Control Plan (LTCP or alternative CSO Control Plan) (MG/yr) (Untreated)

Total number of CSO events in 2014 (Treated)

Total number of CSO events in 2014 (Untreated)

Total CSO volume in 2014 (MG) (Treated)

Total CSO volume in 2014 (MG) (Untreated)

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3 Results

3.1 Distribution of CSO Communities

The Great Lakes Basin in the United States includes 184 CSO communities in seven states (New York, Pennsylvania, Ohio, Michigan, Indiana, Illinois and Wisconsin). As shown in both Figure 3-1 and Table 3-1, Ohio has the most CSO communities in the Great Lakes basin (54), while Pennsylvania has the least (1). Only 4 percent (8 out of 184) of CSO communities in the Great Lakes Basin discharge directly into the Great Lakes; most discharge to a stream or river that eventually discharges to a Great Lake.

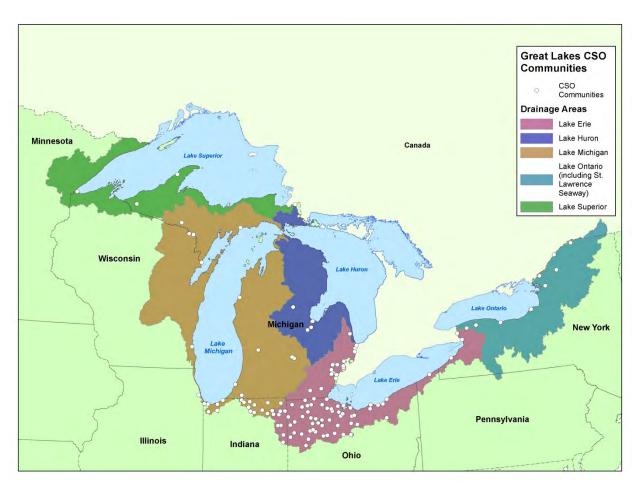


Figure 3-1. CSO Communities in the Great Lakes Basin in the U.S.

² Note that parts of the state of Minnesota are also included in the Great Lakes basin area, but no communities in Minnesota have CSO discharges to the Great Lakes.

| Table 3-1. CSO Communities by State in the Great Lakes Basin in the U.S. | | | | | | | | |
|--|--------------------|--|--|--|--|--|--|--|
| State | CSO Communities | CSO Communities Discharging Directly into a Great Lake | CSO Communities Discharging into a River or Lake Leading to a Great Lake | | | | | |
| New York | 13 | 1 | 12 | | | | | |
| Pennsylvania | 1 | 1 | 0 | | | | | |
| Ohio | 54 | 4 | 50 | | | | | |
| Michigan | 46 | 0 | 46 | | | | | |
| Indiana | 27 | 0 | 27 | | | | | |
| Illinois ^a | 41 | 0 | 41 | | | | | |
| Wisconsin | 2 | 2 | 0 | | | | | |
| Total | 184 | 8 | 176 | | | | | |

^a Includes the City of Chicago and 40 satellite communities within the Tunnel and Reservoir Plan (TARP) adopted by the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC).

All five of the Great Lakes receive CSO discharges from communities in the United States (see Table 3-2). Lake Erie receives CSO discharges from the most communities in the Great Lakes Basin in the United States (92), including direct discharge from six CSO communities. Lake Michigan receives CSO discharges from the second most communities in the Great Lakes Basin in the United States (72). Lake Ontario/St. Lawrence Seaway has 11 communities discharging CSOs, Lake Huron has six, and Lake Superior has three.

| Table 3-2. CSO Communities by Lake in the Great Lakes Basin | | | | | | | | |
|---|-----------------|---|--|--|--|--|--|--|
| Great Lake | CSO Communities | CSO Communities Discharging Directly into a Great Lake | CSO Communities Discharging into a River or Lake Leading to a Great Lake | | | | | |
| Ontario/St. Lawrence Seaway | 11 | 0 | 11 | | | | | |
| Erie | 92 | 6 | 86 | | | | | |
| Huron | 6 | 0 | 6 | | | | | |
| Michigan | 72a | 1 | 71 | | | | | |
| Superior | 3 | 1 | 2 | | | | | |
| Total | 184 | 8 | 176 | | | | | |

Note:

^a Lake Michigan includes the Chicago-area TARP communities. Most TARP discharges are outside the Great Lakes Basin. However, the TARP system is designed to discharge to Lake Michigan under extreme weather conditions.

Most of the larger CSO communities in the Great Lakes Basin in the U.S. discharge to Lake Erie and Lake Michigan. For example, Detroit, Cleveland, Buffalo, Toledo, Akron, and Erie discharge to Lake Erie; and Chicago, ³ Milwaukee, South Bend, Grand Rapids, and Lansing discharge to Lake Michigan.

3.2 LTCP Status of CSO Communities

As shown in Table 3-3, the vast majority of CSO communities in each Great Lakes Basin state required to submit an LTCP or other alternative CSO control plan are operating under approved plans. New York, Pennsylvania, Michigan, Illinois, and Wisconsin have all CSO communities in the Great Lakes Basin in their state operating under approved LTCPs or other alternative CSO control plans.

| Table 3-3. CSO Control Plan Status of Great Lakes Basin CSO Communities by State Based on Available Data | | | | | | | |
|--|---|---|-----|----|--|----|--|
| State | LTCP or Other Altern State Control Plan Re | | | | LTCP or Other Alternative CSO Control Plan Approved | | |
| | Yes No | | Yes | No | Yes | No | |
| New York | 13 | 0 | 13 | 0 | 13 | 0 | |
| Pennsylvania | 1 | 0 | 1 | 0 | 1 | 0 | |
| Ohio | 53 | 1 | 52 | 2 | 50 | 4 | |
| Michigan | 46 | 0 | 46 | 0 | 46 | 0 | |
| Indiana | 27 | 0 | 26 | 1 | 25 | 2 | |
| Illinois | 41 | 0 | 41 | 0 | 41 | 0 | |
| Wisconsin | 2 | 0 | 2 | 0 | 2 | 0 | |
| Total | 183 | 1 | 181 | 3 | 178 | 6 | |

The status of LTCPs and other alternative CSO control plans by lake is shown in Table 3-4. Similar to the analysis of LTCP and other alternative CSO control plan status by state, the vast majority of CSO communities draining to each lake operate under approved LTCPs or other alternative CSO control plans. Lake Ontario/St. Lawrence Seaway, Lake Huron and Lake Superior have 100 percent of their CSO communities operating under approved LTCPs or other alternative CSO control plans.

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³ Chicago is part of the TARP system, where CSOs are designed to discharge to the Illinois River system. Discharges occur to Lake Michigan only under extreme weather conditions.

| Table 3-4. CSO Control Plan Status of Great Lakes Basin CSO Communities by Lake Based on Available Data | | | | | | | |
|---|--|----|---|----|--|----|--|
| Lake | LTCP or Other Alternative CSO Control Plan Required | | LTCP or Other Alternative CSO Control Plan Submitted | | LTCP or Other Alternative CSO Control Plan Approved | | |
| | Yes | No | Yes | No | Yes | No | |
| Ontario/St. Lawrence Seaway | 10 | 0 | 10 | 0 | 10 | 0 | |
| Erie | 92 | 1 | 91 | 2 | 89 | 4 | |
| Huron | 6 | 0 | 6 | 0 | 6 | 0 | |
| Michigan | 72 | 0 | 71 | 1 | 70 | 2 | |
| Superior | 3 | 0 | 3 | 0 | 3 | 0 | |
| Total | 183 | 1 | 181 | 3 | 178 | 6 | |

3.3 Post-Construction Compliance Monitoring Program Status of CSO Communities

The states that had available data on post-construction compliance monitoring plans indicated they are requiring 153 out of 183 (84 percent) of U.S. CSO communities in the Great Lakes Basin to submit post-construction compliance monitoring plans (Table 3-5). The majority of the communities in the Great Lakes Basin that are not required to submit post-construction compliance monitoring plans are in Michigan (26). New York (3) and Ohio (1) also indicated they are not requiring some CSO communities to submit post-construction compliance monitoring plans. Pennsylvania had no available data on post-construction compliance monitoring plans.

The majority of required post-construction compliance monitoring plans have been submitted in Wisconsin, Indiana, Michigan, and New York. Michigan and Wisconsin have received 100 percent, Indiana 93 percent, and New York 80 percent of their required plans. Ohio reported receiving 91 percent post-construction compliance monitoring plans for which they have available data; however, Ohio had no available data on the submission of 42 required post-construction compliance monitoring plans. In addition, as described above, Ohio has one community that does not require a post-construction compliance monitoring plan. Illinois has received 32 percent of their required plans.

Sixty-three of the 78 post-construction compliance monitoring plans (81 percent) that have been received have been approved by the states. Ohio, Michigan, Indiana, and Wisconsin have approved 100 percent of the post-construction compliance monitoring plans they have received, and New York has approved 75 percent of the plans it has received. No post-construction compliance monitoring plans have been approved in Illinois.

| State | Post-Construction Compliance Monitoring Plan Required | | | -Construction onitoring Plan nitted | Received Post-Construction Compliance Monitoring Plan Approved | |
|--------------|---|----------------------|----------------------|---|--|----------------------|
| | Yes | No | Yes | Yes No | | No |
| New York | 10 | 3 | 8 | 2 | 6 | 2 |
| Pennsylvania | No Available Data | No Available Data | No Available Data | No Available Data | No Available Data | No Available Data |
| Ohio | 53 | 1 | 10 | 1 a | 10 | 0 |
| Michigan | 20 | 26 | 20 | 0 | 20 | 0 |
| Indiana | 27 | 0 | 25 | 2 | 25 | 0 |
| Illinois | 41 | 0 | 13 | 28 | 0 | 13 |
| Wisconsin | 2 | 0 | 2 | 0 | 2 | 0 |
| Total | 153 | 30 | 78 | 33 | 63 | 15 |

a Ohio had no available data for 42 permittees, and one permittee did not require a post-construction compliance monitoring plan.

The states require post-construction compliance monitoring plans for most of the CSO communities discharging into lakes Ontario, Erie, and Michigan. However, states have not required the majority of communities with CSOs discharging to lakes Huron and Superior to submit post-construction compliance monitoring plans (Table 3-6). With respect to submission and approval of post-construction compliance monitoring plans, of those communities for which the states had available data, Lake Huron and Lake Superior had 100 percent of their required post-construction compliance monitoring plans approved. Lake Ontario/St. Lawrence Seaway had five of eight required plans approved (63 percent), while Lake Erie had 34 of 78 required plans approved (44 percent) and Lake Michigan had 21 of 64 required plans approved (33 percent).

| Table 3-6. Post Construction Compliance Monitoring Program Status of Great Lakes Basin CSO Communities by Lake Based on Available Data | | | | | | | | |
|--|------------|---|---|----|--|----|--|--|
| Lake | Compliance | nstruction Monitoring Plan quired | Required Post-Construction Compliance Monitoring Plan Submitted | | Received Post-Construction Compliance Monitoring Plan Approved | | | |
| | Yes | No | Yes | No | Yes | No | | |
| Ontario/St. Lawrence Seaway | 8 | 3 | 6 | 2 | 5 | 1 | | |
| Erie ^a | 78 | 13 | 35 | 1 | 34 | 1 | | |
| Huron | 2 | 4 | 2 | 0 | 2 | 0 | | |
| Michigan | 64 | 8 | 34 | 30 | 21 | 13 | | |
| Superior | 1 | 2 | 1 | 0 | 1 | 0 | | |

Total

78

33

63

15

3.4 Treated and Untreated CSOs

153

30

Treatment is provided for some CSOs prior to discharge. Other CSO outfalls discharge untreated wastewater and stormwater. This Report distinguishes between treated CSO discharges and untreated CSO discharges. For the purposes of this Report, "treated CSO discharges" refers to those discharges that receive a minimum level of treatment as described in the 1994 CSO Control Policy FR 18688, 18693:

- Primary clarification (Removal of floatables and settleable solids may be achieved by any
 combination of treatment technologies or methods that are shown to be equivalent to primary
 clarification.);
- Solids and floatables disposal; and
- Disinfection of effluent, if necessary, to meet WQS, protect designated uses and protect human health, including removal of harmful disinfection chemical residuals, where necessary.

3.5 Untreated CSO Events in 2014

The states reported 1,482 untreated CSO events in the Great Lakes Basin in 2014 (Table 3-7). The states reported the following numbers of CSO events:

- Ohio—824 untreated CSO events. Note that Ohio had only partial data available for five communities;
- New York—376 untreated CSO events. Note that New York had no data available for three communities;
- Michigan—273 untreated CSO events;

^a Pennsylvania had no available data on post-construction compliance monitoring data for the City of Erie, which discharges into Lake Erie. Ohio had no available data on the submission or approval of post-construction compliance monitoring plans for 42 communities that discharge into Lake Erie. One permittee in Ohio that discharges into Lake Erie did not require a post-construction compliance monitoring plan.

[&]quot;Untreated CSO discharges" refers to those that either receive no treatment or less treatment than described above.

- Pennsylvania—seven untreated CSO events;
- Illinois—one untreated CSO event;
- Wisconsin—one untreated CSO event; and
- Indiana—zero untreated CSO events. Note that Indiana had no readily available data for 20 of the 27 communities discharging CSOs.

| Table 3-7. Reported Untreated CSO Events by State in 2014 Based on Available Data | | | | | | | |
|---|-------------|------------------------|---------------------------|-------------------------|------------|--|--|
| | CSO | Communities | s Reporting Ov | Number of Untreated CSO | | | |
| State | Communities | Full Data Available | Partial Data Available | No Data Available | Events | | |
| New York | 13 | 10 | 0 | 3a | 376 | | |
| Pennsylvania | 1 | 1 | 0 | 0 | 7 | | |
| Ohio | 54 | 49 | 5 ^b | 0 | 824 | | |
| Michigan | 46 | 46 | 0 | 0 | 273 | | |
| Indiana | 27 | 7 | 0 | 20 ^c | 0 | | |
| Illinois | 41 | 41 | 0 | 0 | 1 d | | |
| Wisconsin | 2 | 2 | 0 | 0 | 1 | | |
| Totals | 184 | 156 | 5 | 23 | 1,482 | | |

dllinois reported 41 CSO events from TARP in 2014. However, most of the events go to Chicago-area rivers that are outside the Great Lakes Basin and only one event in 2014 was to Lake Michigan.

A tabulation of reported untreated CSO events in 2014 by Great Lake is presented in Table 3-8. A total of 1,334 untreated CSO events were reported for Lake Erie in 2014, which was the most by far for any of the Great Lakes. Lake Ontario/St. Lawrence Seaway had the second most events (74 untreated CSO events), followed by Lake Michigan (73 untreated CSO events) and Lake Huron (one untreated CSO event). The states reported no untreated CSO events occurred in the Lake Superior basin.

^a Three communities in New York had no readily available data on the number of CSO events in 2014.

^bFive Ohio communities [Elyria, Oak Harbor, Tiffin, Bucyrus, and Northeast Ohio Regional Sanitation District (Cleveland)] had no available data on the number of untreated CSO events in 2014.

^c20 Indiana communities had no readily available data on the number of CSO events in 2014.

| Table 3-8. Reported Untreated CSO Events by Lake in 2014 Based on Available Data | | | | | | |
|--|--------------------|------------------------|---------------------------|-------------------------|--------|--|
| Lake | CSO Communities | Communitie | es Reporting Over | Number of Untreated CSO | | |
| | | Full Data Available | Partial Data Available | No Data Available | Events | |
| Ontario/St. | | | | | | |
| Lawrence | 10 | 8 | 0 | 2 | 74 | |
| Seawaya | | | | | | |
| Erieb | 93 | 81 | 5 | 7 | 1,334 | |
| Huron | 6 | 6 | 0 | 0 | 1 | |
| Michiganc | 72 | 58 | 0 | 14 | 73 | |
| Superior | 3 | 3 | 0 | 0 | 0 | |
| Totals | 184 | 156 | 5 | 23 | 1,482 | |

Done New York community discharging into Lake Erie had no available data on the number of treated or untreated CSO events. Five Ohio communities discharging into Lake Erie had no available data on the number of untreated CSO events. Six Indiana communities discharging into Lake Erie had no available data on the number of treated or untreated CSO events.

c14 Indiana communities discharging into Lake Michigan had no available data on the number of treated or untreated CSO events. In addition, Illinois reported 41 CSO events from TARP in 2014. However, most of these events go to Chicago-area rivers that are outside of the Great Lakes Basin and only one discharged to Lake Michigan.

3.6 Summary of Untreated CSO Volume Reported in 2014

The states reported a total discharge of approximately 22,000 MG of untreated combined sewage from CSOs to the Great Lakes in 2014 (Table 3-9). The states reported the following numbers of untreated CSO overflow volumes:

- Michigan—8,800 MG.
- Indiana—8,100 MG.
- Ohio—3,200 MG. Note that eight Ohio communities had no available data on untreated CSO volume.
- New York—1,800 MG. Note that five New York communities had no readily available data on CSO volumes.
- Illinois—500 MG.
- Wisconsin—0.3 MG.
- Pennsylvania—0.1 MG.

^aTwo communities in New York discharging into Lake Ontario/St. Lawrence Seaway had no available data on the number of treated or untreated CSO events.

| Table 3-9. Reported Untreated CSO Volume by State in 2014 Based on Available Data | | | | | | |
|---|--------------------|------------------------|---------------------------|----------------------------|--------|--|
| | CSO Communities | Communitie | s Reporting Overflo | Volume of Untreated Events | | |
| State | | Full Data Available | Partial Data Available | No Data Available | (MG) | |
| New York | 13 | 8 | 0 | 5a | 1,800 | |
| Pennsylvania | 1 | 1 | 0 | 0 | 0.1 | |
| Ohio | 54 | 46 | 8 _p | 0 | 3,200 | |
| Michigan | 46 | 46 | 0 | 0 | 8,800 | |
| Indiana | 27 | 27 | 0 | 0 | 8,100 | |
| Illinois | 41 | 41 | 0 | 0 | 500 | |
| Wisconsin | 2 | 2 | 0 | 0 | 0.3 | |
| Totals | 184 | 171 | 8 | 5 | 22,000 | |

^aFive New York communities (Clayton Village, Ogdensburg, the Frank E. VanLare STP in Rochester, Lockport, and Niagara Falls) had no readily available data on CSO volumes.

^bEight Ohio communities [Avon Lake, Crestline, Elyria, Oak Harbor, Tiffin, Bucyrus, Lima, and Northeast Ohio Regional Sanitation District (Cleveland)] had no available data on untreated CSO volume.

As reported in Table 3-10, Lake Erie received 16,400 MG of untreated combined sewage in 2014, which was by far the highest untreated CSO volume discharged to a Great Lake in 2014. Lake Michigan received about 35 percent of what Lake Erie received (approximately 5,900 MG untreated discharge). Lake Ontario/St. Lawrence Seaway (150 MG untreated discharge), Lake Huron (0.4 MG untreated discharge), and Lake Superior (0 MG untreated discharge) received the lowest volumes of untreated CSO discharges in 2014.

| Table 3-10. Reported Untreated CSO Volume by Lake in 2014 Based on Available Data | | | | | | |
|---|--------------------|------------------------|---------------------------|----------------------|--------|--|
| Lake | CSO Communities | Communiti | es Reporting Over | Untreated CSO Volume | | |
| | | Full Data Available | Partial Data Available | No Data Available | (MG) | |
| Ontario/St. Lawrence | 10 | 6 | 0 | 4 | 150 | |
| Seaway ^a | | | | | | |
| Erieb | 93 | 84 | 8 | 1 | 16,400 | |
| Huron | 6 | 6 | 0 | 0 | 0.4 | |
| Michigan | 72 | 72 | 0 | 0 | 5,900 | |
| Superior | 3 | 3 | 0 | 0 | 0 | |
| Totals | 184 | 171 | 8 | 5 | 22,000 | |

Note

^aFour communities in New York discharging into Lake Ontario/St. Lawrence Seaway had no available data on the volume of treated or untreated CSO events.

Egipht Ohio communities had no available data on the volume of untreated CSO events. In addition, one community in New York had no available data on the volume of treated or untreated CSO events.

3.7 Treated CSO Events in 2014

The states reported 187 treated CSO events in the Great Lakes Basin in 2014 (Table 3-11). The states reported the following numbers of treated CSO events:

- Michigan—160 treated CSO events;
- Ohio—27 treated CSO events:
- New York—zero treated CSO events. Note that three communities in New York had no readily available data on the number of CSO events in 2014;
- Pennsylvania—zero treated CSO events;
- Illinois—zero treated CSO events;
- Wisconsin—zero treated CSO events; and
- Indiana—zero treated CSO events. Note that Indiana had no readily available data for 20 of the 27 communities discharging CSOs.

| Table 3-11. Reported Treated CSO Events by State in 2014 Based on Available Data | | | | | | |
|--|--------------------|------------------------|---------------------------|-----------------------|--------|--|
| | CSO Communities | Communitie | s Reporting Ov | Number of Treated CSO | | |
| State | | Full Data Available | Partial Data Available | No Data Available | Events | |
| New York | 13 | 10 | 0 | 3a | 0 | |
| Pennsylvania | 1 | 1 | 0 | 0 | 0 | |
| Ohio | 54 | 54 | 0 | 0 | 27 | |
| Michigan | 46 | 46 | 0 | 0 | 160 | |
| Indiana | 27 | 7 | 0 | 20 ^b | 0 | |
| Illinois | 41 | 41 | 0 | 0 | 0 | |
| Wisconsin | 2 | 2 | 0 | 0 | 0 | |
| Totals | 184 | 156 | 0 | 23 | 187 | |

Note:

A tabulation of reported treated CSO events in 2014 by Great Lake is presented in Table 3-12. A total of 162 treated CSO events were reported for Lake Erie in 2014, which was the most by far for any of the Great Lakes. Lake Huron had the second most events (11 treated CSO events), followed by Lake Michigan (eight treated CSO events), and Lake Superior (six treated CSO events). The states reported no treated CSO events occurred in the Lake Ontario/St. Lawrence Seaway.

^aThree communities in New York had no readily available data on the number of CSO events in 2014.

b20 Indiana communities had no readily available data on the number of CSO events in 2014.

| Table 3-12. Reported Treated CSO Events by Lake in 2014 Based on Available Data | | | | | | |
|---|--------------------|------------------------|---------------------------|-----------------------|--------|--|
| Lake | CSO Communities | Communit | ies Reporting Ove | Number of Treated CSO | | |
| | | Full Data Available | Partial Data Available | No Data Available | Events | |
| Ontario/St. | | | | | | |
| Lawrence | 10 | 8 | 0 | 2 | 0 | |
| Seawaya | | | | | | |
| Erieb | 93 | 86 | 0 | 7 | 162 | |
| Huron | 6 | 6 | 0 | 0 | 11 | |
| Michigan ^c | 72 | 58 | 0 | 14 | 8 | |
| Superior | 3 | 3 | 0 | 0 | 6 | |
| Totals | 184 | 156 | 0 | 23 | 187 | |

3.8 Summary of Treated CSO Volume Reported in 2014

The states reported a total discharge of approximately 26,000 MG of treated combined sewage from CSOs to the Great Lakes in 2014 (Table 3-13). The states reported the following numbers of treated CSO overflow volumes:

- Michigan-25,200 MG.
- Ohio-400 MG.
- Indiana—20 MG
- New York—0 MG. Note that five New York communities had no readily available data on CSO volumes.
- Pennsylvania—0 MG
- Illinois—0 MG.
- Wisconsin—0 MG.

^aTwo communities in New York discharging into Lake Ontario/St. Lawrence Seaway had no available data on the number of treated or untreated CSO events.

Done New York community discharging into Lake Erie had no available data on the number of treated or untreated CSO events. Six Indiana communities discharging into Lake Erie had no available data on the number of treated or untreated CSO events.

¹⁴ Indiana communities discharging into Lake Michigan had no available data on the number of treated or untreated CSO events.

| Table 3-13. Treated CSO Volume by State in 2014 Based on Available Data | | | | | | |
|---|--------------------|------------------------|---------------------------|----------------------|-------------------------|--|
| | CSO Communities | Communiti | es Reporting Ove | | | |
| State | | Full Data Available | Partial Data Available | No Data Available | Treated CSO Volume (MG) | |
| New York | 13 | 8 | 0 | 5ª | 0 | |
| Pennsylvania | 1 | 1 | 0 | 0 | 0 | |
| Ohio | 54 | 46 | 8 | 0 | 400 | |
| Michigan | 46 | 46 | 0 | 0 | 25,200 | |
| Indiana | 27 | 27 | 0 | 0 | 20 | |
| Illinois | 41 | 41 | 0 | 0 | 0 | |
| Wisconsin | 2 | 2 | 0 | 0 | 0 | |
| Totals | 184 | 171 | 8 | 5 | 26,000 | |

•Five New York communities (Clayton Village, Ogdensburg, the Frank E. VanLare STP in Rochester, Lockport, and Niagara Falls) had no readily available data on CSO volumes.

As reported in Table 3-14, Lake Erie received $24,700\,\mathrm{MG}$ of treated combined sewage in 2014, which was by far the highest untreated CSO volume discharged to a Great Lake in 2014. Lake Huron received 800 MG of treated discharge, while Lake Superior received 200 MG of treated discharge and Lake Michigan received 10 MG of treated discharge. Lake Ontario/St. Lawrence Seaway reported no treated discharge volume in 2014.

| Table 3-14. Treated CSO Volume by Lake in 2014 Based on Available Data | | | | | | |
|--|--------------------|------------------------|---------------------------|----------------------|-------------------------|--|
| Lake | CSO Communities | Communiti | es Reporting Ov | | | |
| | | Full Data Available | Partial Data Available | No Data Available | Treated CSO Volume (MG) | |
| Ontario/St. | | | | | | |
| Lawrence | 10 | 6 | 0 | 4 | 0 | |
| Seawaya | | | | | | |
| Erieb | 93 | 84 | 8 | 1 | 24,700 | |
| Huron | 6 | 6 | 0 | 0 | 800 | |
| Michigan | 72 | 72 | 0 | 0 | 10 | |
| Superior | 3 | 3 | 0 | 0 | 200 | |
| Totals | 184 | 171 | 8 | 5 | 26,000 | |

Note:

[®]Four communities in New York discharging into Lake Ontario/St. Lawrence Seaway had no available data on the volume of treated CSO events.

^b One community in New York had no available data on the volume of treated CSO events.

3.9 Summary of Individual State Data

3.9.1 New York

New York has 13 communities with CSO discharges in the Great Lakes Basin, including 10 that discharge to Lake Ontario/St. Lawrence Seaway and three that discharge to Lake Erie (Figure 3-2 and Appendix Table A-1). New York's CSO communities in the Great Lakes Basin are primarily small, with the exception of Buffalo, which discharges into waterbodies leading to Lake Erie; and Rochester, which discharges into waterbodies leading to Lake Ontario. Most CSO communities in New York do not discharge directly into the Great Lakes, although Dunkirk discharges directly into Lake Erie.

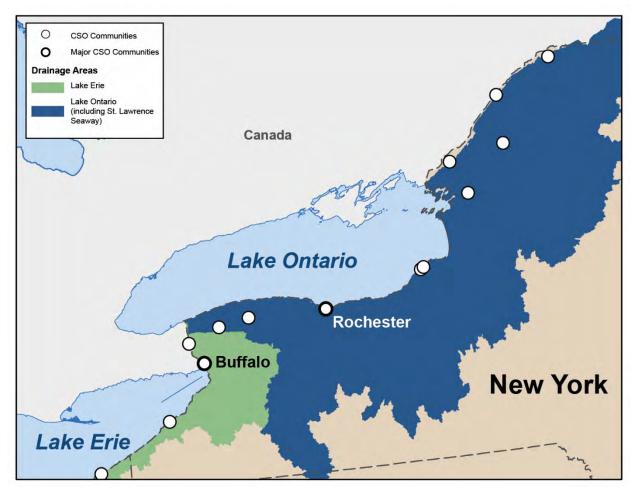


Figure 3-2. CSO Communities in the Great Lakes Basin in New York.

All CSO communities in New York require LTCPs, and LTCPs for all of these communities have been submitted and approved (Appendix Table A-2). Post-construction compliance monitoring plans are required for all CSO communities except Rochester, Medina, and Gouverneur (Appendix Table A-3). Post-construction compliance monitoring plans have been submitted for eight out of the 10 communities where they are required and approved in six.

New York reported 376 untreated CSO events in 2014, consisting of 1,800 MG of combined sewage (Appendix Table A-5). They included 302 CSO events with a total of 1,650 MG to Lake Erie, and 74 CSO events with a total of 150 MG to Lake Ontario/St. Lawrence Seaway. However, no data was readily

available for the number of CSO events for the Frank E. VanLare STP in Rochester, or for Lockport or Niagara Falls. In addition, no CSO volume data was readily available for Clayton Village, Ogdensburg, the Frank E. VanLare STP in Rochester, Lockport, or Niagara Falls. The number of CSO events and volume of combined sewage discharge are estimates based mostly on local modeling the overflows using a baseline annual precipitation. They are not actual measured quantities.

3.9.2 Pennsylvania

The City of Erie, located in northwestern Pennsylvania on Lake Erie, is the only CSO community in Pennsylvania that is in the Great Lakes Basin (Figure 3-3 and Appendix Table A-6). The city's CSOs include direct discharges into Lake Erie. The city's LTCP was approved in 2001 (Appendix Table A-7), but no data was available regarding its post-construction compliance monitoring program (Appendix Table A-8). Erie reported seven untreated CSO events in 2014, which discharged 0.12 MG of untreated combined sewage into Lake Erie (Appendix Table A-10). ⁴

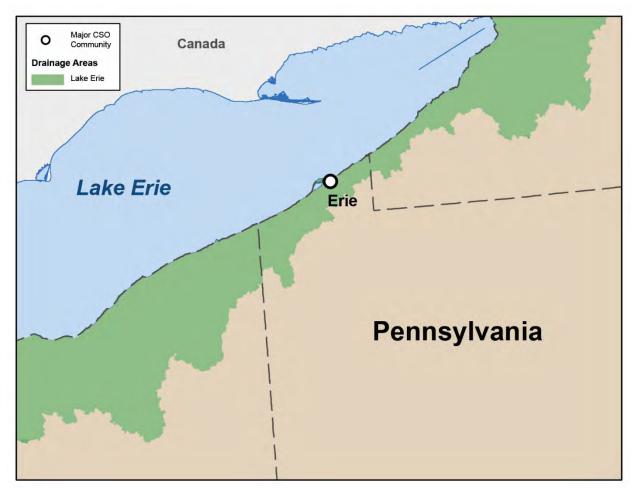


Figure 3-3.CSO Communities in the Great Lakes Basin in Pennsylvania.

⁴ The City of Erie used the presumption approach in its LTCP (with an 85 percent capture WQBEL); however, the city has documented as of its 2014 Annual Report that it is capturing more than 99 percent of its CSO volume.

3.9.3 Ohio

The 54 CSO communities in the Great Lakes Basin in Ohio all discharge to Lake Erie (Figure 3-4). The communities range from very large systems [e.g., Northeast Ohio Regional Sewer District (NEORSD) around Cleveland] to very small systems (several communities, including Hamler and Metamora, serve populations of fewer than 1,000). Avon, Euclid, Lakewood, and NEORSD discharge directly into Lake Erie, while the remainder of the communities discharge to other receiving waters that eventually drain to Lake Erie (see Appendix Table A-11 for a list of individual communities).

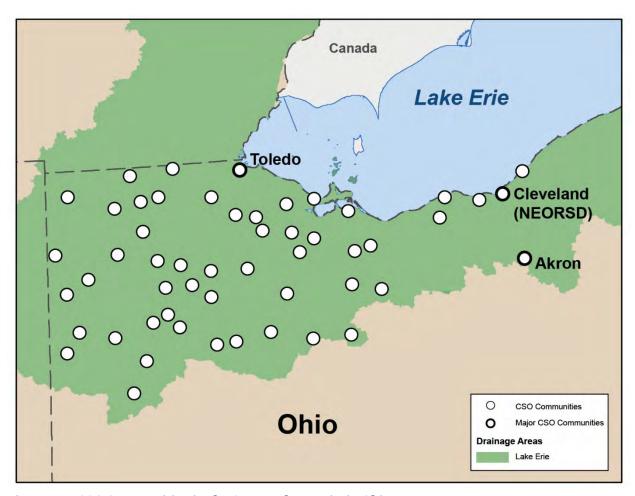


Figure 3-4. CSO Communities in the Great Lakes Basin in Ohio.

A total of 52 of the 54 communities in the Great Lakes Basin in Ohio required LTCPs or alternative CSO control plans (Table 3-3 and Appendix Table A-12). 5 Two communities did not require LTCPs or alternative CSO control plans:

- Wauseon submitted an LTCP to the state of Ohio, although the city's NPDES permit did not require it.
- Willard achieved compliance with the CSO Control Policy without needing an LTCP.

⁵ Luckey's NPDES permit required submission of a sewer separation plan as an alternative CSO control plan rather than an LTCP.

Fifty-one of the 52 communities required to submit LTCPs or alternative CSO control plans have done so; Elyria is the exception (Appendix Table A-12). With the exception of Bucyrus and Lakewood, all of the LTCPs or alternative CSO control plans that have been submitted have been approved.

Fifty-three of 54 communities had a requirement to develop a post-construction compliance monitoring plan (Appendix Table A-13). Willard was the exception. Ten communities have submitted post-construction compliance monitoring plans that have been approved.

Thirty-two Ohio communities reported CSO events in 2014 (five communities did not have complete available data on CSO events in 2014) (Appendix Table A-15). They ranged from a high of 107 CSO events in Lakewood to single events in Bowling Green and Paulding. Almost all reported CSO events were untreated. However, NEORSD reported 27 treated CSO events resulting in 435 MG of discharge, but had no available data on untreated CSO events. The total reported volume of CSO discharges in in Ohio in 2014 was approximately 3,200 MG of untreated combined sewage and 440 MG of treated combined sewage. Akron and Fremont reported the highest volume of untreated combined sewage, at over 800 MG each. This was more than double the next highest reported volume, which was approximately 300 MG by the City of Toledo.

3.9.4 Michigan

There are 46 communities discharging CSOs to the Great Lakes in Michigan (Figure 3-5 and Appendix Table A-16). They include 18 CSO communities in the Detroit Water and Sewerage Department (DWSD) service area, as well as medium-sized cities like Grand Rapids and Lansing. There are also much smaller communities, like Croswell and Crystal Falls, which have populations under 3,000 people. CSO communities in Michigan discharge to four out of the five Great Lakes: 27 to Lake Erie (including the Detroit area CSOs), six to Lake Huron, 11 to Lake Michigan (including Grand Rapids and Lansing), and two to Lake Superior. There are no CSOs discharging directly to the Great Lakes in Michigan; all CSOs discharge to a river, stream, or other water body leading to a Great Lake.

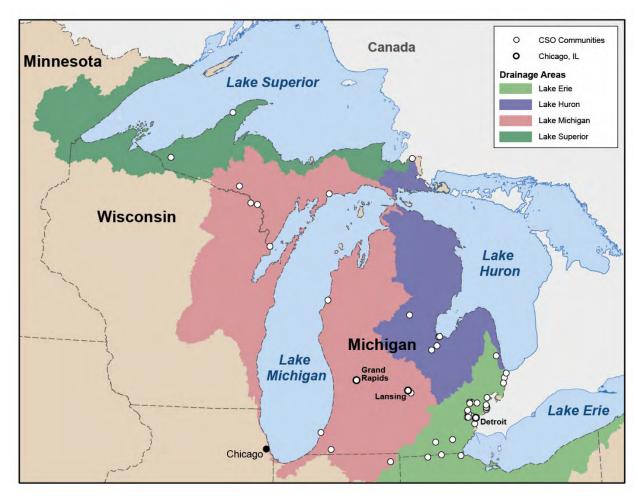


Figure 3-5. CSO Communities in the Great Lakes Basin in Michigan.

Michigan has approved LTCPs for all 46 communities discharging CSOs to the Great Lakes in the state (Appendix Table A-17). Twenty of these communities also have approved post-construction compliance monitoring plans. Twenty-six communities do not require post-construction compliance monitoring plans (Appendix Table A-18).

Thirty-two of the 46 communities reported CSO events in 2014 (Appendix Table A-20). The number of events per community ranged from one to 60 (treated plus untreated events). The largest CSO volumes are summarized in Table 3-15.

| Table 3-15. Largest CSO Dischargers in Michigan by Volume, 2014 | | | | | | | | |
|--|-------------------|-----------|--|--|--|--|--|--|
| CSO Name | CSOs in 2014 (MG) | | | | | | | |
| CSO Ivallic | Treated | Untreated | | | | | | |
| Detroit WWTP | 18,800 | 7,000 | | | | | | |
| South Oakland County Sewerage Disposal System/George W. Kuhn CSO Retention Treatment Basin | 2,500 | 0 | | | | | | |
| Dearborn CSO | 344 | 698 | | | | | | |

3.9.5 Indiana

There are 27 CSO communities in the Great Lakes Basin in Indiana (Figure 3-6 and Appendix Table A-21). Nine of these communities (primarily in the northeastern part of the state) have CSOs that discharge to a water body that eventually discharges to Lake Erie, while the remaining 18 (mostly in the northwestern part of the state) have CSOs that discharge to a water body that eventually discharges to Lake Michigan. Most of the communities are relatively small, with only Gary, South Bend, Hammond, and Fort Wayne having substantial populations. There are no CSOs discharging directly to the Great Lakes in Indiana; all CSOs discharge to a river, stream, or other water body leading to a Great Lake.

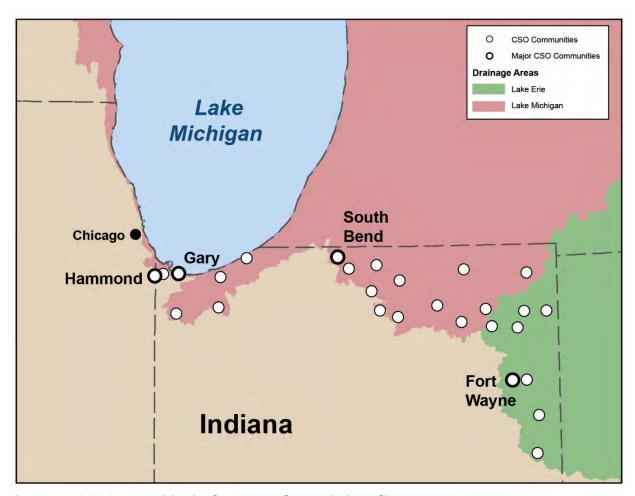


Figure 3-6. CSO Communities in the Great Lakes Basin in Indiana.

All 27 Indiana CSO communities in the Great Lakes Basin require LTCPs except Kendalville, which has completed an alternative control plan (Appendix Table A-22). All communities have submitted their LTCPs except for Gary, and all have had their plans accepted except for Gary and Hammond. A similar pattern occurs with post-construction compliance monitoring plans. All communities have submitted and had their plans approved except Gary and Hammond, which have yet to submit plans (Appendix Table A-23).

Indiana did not have data readily available on the number of CSO events in 2014 for a large majority of CSO communities (Appendix Table A-25). However, the state did have data available on CSO volume. All communities reported untreated CSO overflows in 2014 except the seven communities that had

completely separated their sewers, with untreated CSO volumes ranging from under 1 MG (in Angola, Auburn, Kendalville, and Ligonier) to over 1,000 MG (in Fort Wayne, Gary, and Hammond). Butler, Goshen, Valparaiso, and Waterloo also reported some treated CSO discharges, with volumes ranging from less than 1 MG to 14 MG.

3.9.6 Illinois

All CSO communities in the Great Lakes Basin in Illinois are in the Chicago metropolitan area (Figure 3-7 and Appendix Table A-26) and part of the TARP. TARP was approved as the LTCP for the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), the City of Chicago, and 40 satellite communities. TARP provides a good example of an LTCP with CSO remedial control measures that, upon completion, are expected to address CSOs containing untreated sewage in Chicago area waterways that occur during flood and wet weather events. TARP is the subject of a Federal Judicial Consent Decree that was upheld in July 2015 by the Seventh Circuit Court of Appeals. Under the Consent Decree, MWRDGC will complete implementation of TARP to eliminate a substantial percentage of CSOs by December 31, 2029, that, upon completion, is estimated will cost more than \$3 billion. This plan includes the construction of 109 miles of tunnels that will have a storage capacity of approximately 2.3 billion gallons and the completion of three reservoirs. The tunnel and reservoirs will have a combined capacity of approximately 17 billion gallons of sewage and flood water.

MWRDGC is required under the CSO Decree to implement a green infrastructure program. Under that program, where feasible, MWRDGC will prioritize green infrastructure projects where they (1) will help reduce flooding and basement backups; (2) can be readily accommodated as permanent stormwater control measures on vacant parcels that can be retrofitted into "stormwater parks" that would store and infiltrate or reuse rainfall and runoff, and be an amenity for local residents; and (3) can improve socioeconomic conditions in the MWRDGC service area where the need is greatest, specifically by improving conditions in areas impacted by environmental justice concerns.



Figure 3-7. CSO Communities in the Great Lakes Basin in Illinois.

Illinois reported 41 CSO events from TARP in 2014 (because TARP is an integrated system, this means that on 41 occasions in 2014, at least one of the CSO points in the TARP interceptors discharged combined sewage to the local waterway (Appendix Table A-30). However, only one of the events discharged to Lake Michigan; the other 40 discharged to Chicago-area rivers draining away from Lake Michigan. The one discharge event to Lake Michigan in 2014 resulted in a discharge of 525 MG of untreated CSO into the lake.

3.9.7 Wisconsin

Wisconsin has two CSO communities that discharge to the Great Lakes Basin (Appendix Table A-31). Milwaukee's Metropolitan Sewerage District (MMSD) discharges to Lake Michigan and the community of Superior discharges to Lake Superior (Figure 3-8). MMSD is a large system that serves 26 communities, including the City of Milwaukee; Superior is smaller. The MMSD permit includes discharges to waterbodies leading to Lake Michigan and two discharges into Milwaukee's Outer Harbor on Lake Michigan. Similarly, the City of Superior has direct discharges to Superior Bay and St. Louis Bay on Lake Superior, as well as to waterbodies leading to the lake.



Figure 3-8. CSO Communities in the Great Lakes Basin in Wisconsin.

Both MMSD and Superior have submitted required LTCPs (Appendix Table A-32). MMSD's LTCP was approved in 2007, while Superior's was approved in 2013. Both communities also have approved post-construction compliance monitoring plans (Appendix Table A-33). MMSD's plan was approved at the same time as its LTCP in 2007, while Superior's was approved in 2015.

MMSD reported one untreated CSO event in 2014, with an untreated CSO volume of 0.3 MG (Appendix Table A-35). Superior reported no CSO overflow events and no CSO overflow volume in 2014.

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| Tak | ole A- 1. New York | CSO Comm | unity Summa | ary Inform | ation | | | |
|------------|--------------------------------------|---------------------|-------------------------------------|---|---|--------------------------|------------------------------|----------------------------------|
| EPA Region | Name of Municipal Operator of CSS | NPDES Permit Number | Name of Great Lake Discharged to | Direct Discharge into Great Lakes?(Y/N/NA) | Name of Water Body Directly Discharged into | Population Served by CSS | Population Served by WWTP | Design Capacity of WWTP (MGD) |
| 2 | Gouverneur STP | NY0020117 | St. Lawrence Seaway | N | Oswegatchie River | NDA | 4,600 | 3.67 |
| 2 | Watertown WPCP | NY0025984 | Lake Ontario | N | Black River | 35,000 | 48,000 | 8 |
| 2 | Clayton Village WTF | NY0027545 | St. Lawrence Seaway | N | St. Lawrence River | 2,100 | 2,100 | 1.1 |
| 2 | Ogdensburg WWTP | NY0029831 | St. Lawrence Seaway | N | St. Lawrence River | 11,128 | 12,500 | 6.5 |
| 2 | Massena WWTP | NY0031194 | St. Lawrence Seaway | N | Grasse and Raquette Rivers | 10,813 | 12,000 | 4.8 |
| 2 | Oswego-West Side STP | NY0029106 | Lake Ontario | N | Oswego River | 10,000 | 16,350 | 4 |
| 2 | City of Oswego, East Side STP | NY0029114 | Lake Ontario | N | Oswego River | 8,000 | 9,400 | 5.35 |
| 2 | Medina WWTP | NY0021873 | Lake Ontario | N | Barge Canal and Oak Orchard Creek | 6,650 | 6,500 | 10 |
| 2 | Frank E. VanLare STP (Rochester) | NY0028339 | Lake Ontario | N | Genesee River and Irondequoit Bay | 462,224 | 462,224 | 400 |
| 2 | Niagara Falls WWTP | NY0026336 | Lake Ontario | N | Niagara River | 49,722 | 61,840 | 48 |
| 2 | Lockport WWTP | NY0027057 | Lake Ontario | N | Barge Canal and Eighteenmile Creek | 21,000 | 26,000 | 22 |
| 2 | Dunkirk WWTP | NY0027961 | Lake Erie | Υ | Lake Erie | 13,200 | 15,000 | 6 |
| 2 | Buffalo Sewer Authority | NY0028410 | Lake Erie | N | Niagara River, Buffalo River, Scajaquada Creek, Black Rock Canal, and Cazenovia Creek | 258,310 | 600,000 | 180 |
| Key: | Y = Yes; N = No; N/A = No | t Applicable; ND | A = No Data Availa | ble | | | | |

| Table A- 2. | New York | LTCP S | tatus | | | | | | |
|--|---------------------|------------------------|--|--|-----------------|----------------|----------------|---|---|
| tor | | | Plan | d) | | | LTC | P or Alternat | ive CSO Control Plan |
| Name of Municipal Operator of CSS | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) | Description of Alternative CSO Control Plan | Submitted (Y/N) | Approved (Y/N) | Approval Date | Projected Date for Full Implementation | Milestones |
| Gouverneur STP | NY0020117 | Υ | N/A | NDA | Υ | Υ | NDA | NDA | Approved by NYSDEC on Sept 9, 2015 |
| Watertown WPCP | NY0025984 | Υ | Υ | SS | Υ | Υ | 04/29/2011 | 12/1/2017 | Reconstruction and separation of sewers |
| Clayton Village WTF | NY0027545 | Υ | Y | Other | Υ | Υ | 11/19/2012 | 2023 | Removal of excessive I/I; diversion of flow away from the Riverside Pump Station; increase capacity to the existing pump stations |
| Ogdensburg WWTP | NY0029831 | Υ | Υ | SS | Y | Υ | 07/26/2012 | 2023 | Sewer separation along Paterson Street, green infrastructure projects, optimization of capture rate through weir modifications, hydraulic improvements, and installation of an 800,000 gallon storage including sewer separation along Paterson Street, green infrastructure projects, optimization of capture rate through weir modifications, hydraulic improvements, and installation of an 800,000 gallon storage facility for CSOs 001 and 002 |
| Massena WWTP | NY0031194 | Υ | Υ | Other | Υ | Υ | 02/03/2009 | NDA | Sewer extension |
| Oswego- West Side STP | NY0029106 | Υ | N | Other | Υ | Υ | 03/09/2010 | 2016 | Continuation to maintain the existing Excess Flow Management Facility (EFMF), disinfection, inline storage, and O best management practices. |
| City of Oswego, East Side STP | NY0029114 | Y | N | Other | Υ | Υ | 01/26/2006 | 5/16/2015 | Increase in capacity at the existing storage tank; pump station upgrade; and increase in headworks capacity. |
| Medina WWTP | NY0021873 | Υ | Υ | Other | Υ | Υ | 08/14/2007 | 8/7/2015 | Continue with the current best management practices and reduce CSO discharges |
| Frank E. VanLare STP (Rochester) | NY0028339 | Υ | Υ | Other | Υ | Υ | NDA | NDA | CSO storage/conveyance tunnel system |
| Niagara Falls WWTP | NY0026336 | Y | N | Other | Υ | Y | 04/21/2008 | 12/1/2009 | Continuation of CSO BMP implementations especially weir adjustment at Gorge pump station, and Garfield; elimination of Bath and Walnut outfalls. |
| Lockport WWTP | NY0027057 | Y | N | Other | Υ | Υ | 03/12/2012 | 2012 | CSO BMPs, sewer improvements including sewer separation, overflow weir modification, and sewer replacement |
| Dunkirk WWTP | NY0027961 | Υ | Υ | Other | Υ | Υ | 04/19/2007 | 5/1/2008 | WWTP upgrade |
| Buffalo Sewer Authority | NY0028410 | Y | N | Other | Y | Y | 01/01/2014 | 3/1/2034 | Proposed controls include weir modifications, real time controls, green infrastructure, storage, treatment upgrades |
| Key: Y = Yes; N | I = No; N/A = No | t Applica | ble; NDA = N | o Data Ava | ilable; | SS = S | ewer Separatio | n | |

| Table A- 3. New York Post Co | onstruction Con | npliance Monit | oring Program | Status | |
|---|---------------------|----------------|---------------|---|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | | | Post- Construction Compliance Monitoring Plan Approved (YN) | Post-Construction Compliance Monitoring Plan Approval Date |
| Gouverneur STP | NY0020117 | N | N | N | N/A |
| Watertown WPCP | NY0025984 | Y | Υ | Y | NDA |
| Clayton Village WTF | NY0027545 | Υ | N | N | NDA |
| Ogdensburg WWTP | NY0029831 | Υ | N | N | NDA |
| Massena WWTP | NY0031194 | Υ | Υ | Υ | 1/28/2011 |
| Oswego-West Side STP | NY0029106 | Υ | Υ | Υ | 9/24/2012 |
| City of Oswego, East Side STP | NY0029114 | Υ | Υ | N | NDA |
| Medina WWTP | NY0021873 | N | N | N | NDA |
| Frank E. VanLare STP (Rochester) | NY0028339 | N | N | N | NDA |
| Niagara Falls WWTP | NY0026336 | Υ | Υ | Υ | 3/11/2013 |
| Lockport WWTP | NY0027057 | Υ | Υ | Υ | 5/26/2011 |
| Dunkirk WWTP | NY0027961 | Υ | Υ | Y | NDA |
| Buffalo Sewer Authority | NY0028410 | Υ | Υ | N | NDA |
| Key: Y = Yes; N = No; NDA = No Data Ava | ilable | | | | |

| Table A- 4. New \ | York Pre and | Post Cor | struction | CSO Statu | IS | | | | |
|-----------------------------------|---------------------|---|-----------|--|-----------|------------------------------|--|---|-----------|
| Name of Municipal Operator of CSS | NPDES Permit Number | S Permit Number Average Annual Number of CSO Events Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) | | Average Annual Number of CSO Events Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) Average Annual Historic Volume of CSOs Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | | Average Annual Number of CSO | Events Affer implementation of CSO Control Plan (LTCP or Affernative CSO Control Plan) | Average Annual Volume of CSOs Anticipated After Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | |
| Name | NPDI | Treated | Untreated | Treated | Untreated | Treated | Untreated | Treated | Untreated |
| Gouverneur STP | NY0020117 | 0 | 6 | NDA | NDA | NDA | NDA | NDA | NDA |
| Watertown WPCP | NY0025984 | 0 | 30+ | NDA | 61 | NDA | NDA | NDA | NDA |
| Clayton Village WTF | NY0027545 | NDA | 30 | NDA | NDA | NDA | 19 | NDA | NDA |
| Ogdensburg WWTP | NY0029831 | NDA | 50 | NDA | NDA | NDA | 16 | NDA | NDA |
| Massena WWTP | NY0031194 | NDA | 35 | NDA | 38 | NDA | 6 | NDA | NDA |
| Oswego-West Side STP | NY0029106 | NDA | 60 | NDA | 80 | NDA | 15 | NDA | NDA |
| City of Oswego, East Side STP | NY0029114 | NDA | 10 | NDA | 8 | NDA | 3 | NDA | NDA |
| Medina WWTP | NY0021873 | NDA | 1 | NDA | 0 | NDA | 0 | NDA | NDA |
| Frank E. VanLare STP (Rochester) | NY0028339 | NDA | 8 | NDA | 232 | NDA | 7 | NDA | NDA |
| Niagara Falls WWTP | NY0026336 | NDA | 39 | NDA | 282 | NDA | 43 | NDA | NDA |
| Lockport WWTP | NY0027057 | NDA | 20 | NDA | 40 | NDA | 10 | NDA | NDA |
| Dunkirk WWTP | NY0027961 | NDA | 23 | NDA | 27 | NDA | 23 | 1870 | NDA |
| Buffalo Sewer Authority | NY0028410 | NDA | 296 | NDA | 1,749 | NDA | 0-9 each location | NDA | 504 |
| Key: NDA = No Data Ava | ailable | | • | | • | | | | |

| Table A- 5. New York 2014 C | SO Status | | | | | |
|--|---------------------|------------------|----------------|---|-----------|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | Total Number CSO | Events in 2014 | Total CSO Overflow Volume in 2014 (MG/yr) | | |
| Nai Op | NP | Treated | Untreated | Treated | Untreated | |
| Gouverneur STP | NY0020117 | NDA | 2 | NDA | 0.2 | |
| Watertown WPCP | NY0025984 | NDA | 18 | NDA | 76 | |
| Clayton Village WTF | NY0027545 | NDA | 19 | NDA | NDA | |
| Ogdensburg WWTP | NY0029831 | NDA | 11 | NDA | NM | |
| Massena WWTP | NY0031194 | NDA | 4 | NDA | 27.28 | |
| Oswego-West Side STP | NY0029106 | NDA | 4 | NDA | 4.14 | |
| City of Oswego, East Side STP | NY0029114 | NDA | 16 | NDA | 44.6 | |
| Medina WWTP | NY0021873 | NDA | 0 | NDA | 0 | |
| Frank E. VanLare STP (Rochester) | NY0028339 | NDA | NDA | NDA | NDA | |
| Niagara Falls WWTP | NY0026336 | NDA | NDA | NDA | NDA | |
| Lockport WWTP | NY0027057 | NDA | NDA | NDA | NDA | |
| Dunkirk WWTP | NY0027961 | NDA | 6 | NDA | 30 | |
| Buffalo Sewer Authority | NY0028410 | NDA | 296 | NDA | 1616.2 | |
| Key: NDA = No Data Available; NM = Not | Measured | | <u> </u> | | . | |

| Table | Table A- 6. Pennsylvania CSO Community Summary Information | | | | | | | | | | | |
|------------|--|---------------------|-------------------------------------|---------------------------------------|---|--------------------------|---------------------------|----------------------------------|--|--|--|--|
| EPA Region | Name of Municipal Operator of CSS | NPDES Permit Number | Name of Great Lake Discharged to | Direct Discharge into Great Lakes? | Name of Water- body Directly Discharged into | Population Served by CSS | Population Served by WWTP | Design Capacity of WWTP (MGD) | | | | |
| 3 | The City of Erie | PA0026301 | Lake Erie | Υ | Lake Erie | NDA | 200,000 | 68.6 | | | | |
| Key: \ | Y = Yes; NDA = No | Data Available | | | | | | | | | | |

| Table A- 7. I | Table A- 7. Pennsylvania LTCP Status | | | | | | | | | | |
|--------------------------------------|--|------------------------|--|------------------------------|-----------------|----------------|---------------|---|------------|--|--|
| or of | | | | an | cso | LTCP or Alt | ernative CSO | Control Plan | | | |
| Name of Municipal Operator of CSS | NPDES Permit Number | LTCP Required (YININA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) | Description of Alternative (| Submitted (V/N) | Approved (Y/N) | Approval Date | Projected Date for Full Implementation | Milestones | | |
| The City of Erie | The City of Erie PA0026301 Y NDA NDA Y 10/1/2001 NDA NDA | | | | | | | | | | |
| Key: Y = Yes; N = | = No; N/A = No | t Applicable; NE | A = No Data Avai | lable | | | • | | | | |

| Table A- 8. Pe | Table A- 8. Pennsylvania Post-Construction Compliance Monitoring Program Status | | | | | | | | | | |
|--|---|--|--|---|--|--|--|--|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | Post-Construction Compliance Monitoring Plan Required (YN) | Post-Construction Compliance Monitoring Plan Submitted (Y/N) | Post-Construction Compliance Monitoring Plan Approved (Y/N) | Post-Construction Compliance Monitoring Plan Approval Date | | | | | | |
| The City of Erie PA0026301 NDA NDA NDA NDA | | | | | | | | | | | |
| Key: NDA = No Data | a Available | | | | | | | | | | |

| Table A- 9. Pe | Table A- 9. Pennsylvania Pre- and Post-Construction CSO Status | | | | | | | | | | | |
|-----------------------------------|--|---|--|---|---|--|--|---|--|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | Average Annual Number of CSO Events Before Implementation of | CSO Control Plan (LTCP or Alternative CSO Control Plan) | Average Annual Historic Volume of CSOs Before Implementation of | CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | Average Annual Number of CSO Events Affer Implementation of | CSO Control Plan (LTCP or Alternative CSO Control Plan) | Average Annual Volume of CSOs Anticipated After Implementation | of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | | | |
| Nar | NPI | Treated | Untreated | Treated | Untreated | Treated | Untreated | Treated | Untreated | | | |
| The City of Erie | PA0026301 | NDA | NDA | NDA | NDA | NDA | NDA | NDA | NDA | | | |
| Key: NDA = No Dat | a Available | | | | | | | | | | | |

| Table A- 10. F | Table A- 10. Pennsylvania 2014 CSO Status | | | | | | | | | |
|-----------------------------------|---|----------------------------|---|---------|-----------|---|--|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | Total Number CSO Events in | Total Number CSO Events in 2014 Average Annual Historic Volume of CSOs Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | | ပ ဗ | SS | | | | |
| Nam | JAN | Treated | Untreated | Treated | Untreated | Notes | | | | |
| The City of Erie | PA0026301 | NDA | 7 | NDA | 0.1202 | The City of Erie used the presumption approach in its LTCP (with an 85% capture WQBEL); however, the City has documented as of its 2014 Annual Report that it is capturing >99% of its CSO volume | | | | |
| Key: NDA = No Dat | ta Available | | | | | | | | | |

| Table | e A- 11. Ohio CS | O Communi | ty Summa | ry Inform | ation | | | |
|------------|--------------------------------------|---------------------|-------------------------------------|---------------------------------------|--|-----------------------------|------------------------------|----------------------------------|
| EPA Region | Name of Municipal Operator of CSS | NPDES Permit Number | Name of Great Lake Discharged to | Direct Discharge into Great Lakes? | Name of Water Body Directly Discharged into | Population Served by CSS | Population Served by WWTP | Design Capacity of WWTP (MGD) |
| 5 | Avon Lake | OH0023981 | Lake Erie | Υ | Lake Erie | NDA | 27000 | 6.5 |
| 5 | Blufflon | OH0020851 | Lake Erie | N | Riley Creek | NDA | 3896 | 1.9 |
| 5 | Bowling Green | OH0024139 | Lake Erie | N | Poe Ditch | NDA | 32000 | 10 |
| 5 | Columbus Grove | OH0024759 | Lake Erie | N | Plum Creek | NDA | 2137 | 0.82 |
| 5 | Crestline | OH0020664 | Lake Erie | N | Westerly Creek | NDA | 5088 | 0.95 |
| 5 | Defiance | OH0024889 | Lake Erie | N | Maumee River | NDA | 18972 | 6 |
| 5 | Delphos | OH0024929 | Lake Erie | N | Jennings Creek | NDA | 7101 | 3.83 |
| 5 | Delta | OH0020974 | Lake Erie | N | Bad Creek | NDA | 3100 | 0.725 |
| 5 | Deshler | OH0022471 | Lake Erie | N | Brush Creek | NDA | 1799 | 0.57 |
| 5 | Dunkirk | OH0048321 | Lake Erie | N | Shallow Run Ditch | NDA | 680 | 0.137 |
| 5 | Elyria | OH0025003 | Lake Erie | N | Black River | NDA | 56000 | 13 |
| 5 | Fayette | OH0025127 | Lake Erie | N | Unnamed stream to Deer Creek | NDA | 1500 | 0.26 |
| 5 | Findlay | OH0025135 | Lake Erie | N | Blanchard River | NDA | 45002 | 15 |
| 5 | Forest | OH0025151 | Lake Erie | N | Forest Simpson Ditch to Blanchard River | NDA | 1488 | 0.2 |
| 5 | Fremont | OH0025291 | Lake Erie | N | Sandusky River | NDA | 25384 | 7.6 |
| 5 | Gibsonburg | OH0029122 | Lake Erie | N | Hurlbut & SR 300 Ditch (to Portage River) | NDA | 2510 | 0.5 |
| 5 | Green Springs | OH0022578 | Lake Erie | N | Flag Run Creek | NDA | 1368 | 0* |
| 5 | Greenwich | OH0020486 | Lake Erie | N | SW Branch of Vermillion River | NDA | 1482 | 0.2 |
| 5 | Hamler | OH0021105 | Lake Erie | N | South Turkey Foot Creek | NDA | 580 | 0.113 |
| 5 | Hicksville | OH0025771 | Lake Erie | N | Mill Creek | NDA | 3581 | 2.25 |
| 5 | Leipsic | OH0020826 | Lake Erie | N | Little Yellow Creek | NDA | 2285 | 1.5 |
| 5 | Luckey | OH0058971 | Lake Erie | N | Toussiant Creek | NDA | 1020 | 0.1 |
| 5 | McComb | OH0026263 | Lake Erie | N | Algire Creek | NDA | 1648 | 0.388 |
| 5 | Metamora | OH0058408 | Lake Erie | N | Ten Mile Creek | NDA | 650 | 0.2 |
| 5 | Monroeville | OH0020095 | Lake Erie | N | West Branch Huron River | NDA | 1400 | 0.3 |
| 5 | Montpelier | OH0021831 | Lake Erie | N | St. Joseph River | NDA | 4600 | 1 |
| 5 | Napoleon | OH0020893 | Lake Erie | N | Maumee River | NDA | 8749 | 2.5 |
| 5 | North Baltimore | OH0020117 | Lake Erie | N | Rocky Ford Creek | NDA | 3361 | 0.8 |
| 5 | Norwalk | OH0052604 | Lake Erie | N | Rattlesnake Creek | NDA | 16931 | 3.5 |
| 5 | Oak Harbor | OH0026841 | Lake Erie | N | Portage River | NDA | 4080 | 0.93 |

| Table | Table A- 11. Ohio CSO Community Summary Information | | | | | | | | | | | | |
|--|--|---------------------|-------------------------------------|---------------------------------------|--|--------------------------|------------------------------|---|--|--|--|--|--|
| EPA Region | Name of Municipal Operator of CSS | NPDES Permit Number | Name of Great Lake Discharged to | Direct Discharge into Great Lakes? | Name of Water Body Directly Discharged into | Population Served by CSS | Population Served by WWTP | Design Capacity of WWTP (MGD) | | | | | |
| 5 | Ohio City | OH0023396 | Lake Erie | N | Long Prairie Creek | NDA | 700 | 0.015 | | | | | |
| 5 | Pandora | OH0021148 | Lake Erie | N | Riley Creek | NDA | 1153 | 0.15 | | | | | |
| 5 | Paulding | OH0020338 | Lake Erie | N | Flat Rock Creek | NDA | 3595 | 0.75 | | | | | |
| 5 Payne OH0021326 Lake Erie N Flat Rock Creek NDA 1152 0.27 | | | | | | | | | | | | | |
| 5 Perrysburg OH0021008 Lake Erie N Maumee River NDA 28436 5.4 | | | | | | | | | | | | | |
| 5 Sandusky OH0027332 Lake Erie N Sandusky Bay NDA 44800 15.7 | | | | | | | | | | | | | |
| 5 Swanton OH0020524 Lake Erie N Al Creek NDA 3307 0.92 | | | | | | | | | | | | | |
| 5 | Tiffin | OH0052949 | Lake Erie | N | Sandusky River | NDA | 19000 | 4 | | | | | |
| 5 | Upper Sandusky | OH0020001 | Lake Erie | N | Sandusky River | NDA | 6800 | 2 | | | | | |
| 5 | VanWert | OH0027910 | Lake Erie | N | Town Creek | NDA | 10600 | 4 | | | | | |
| 5 | Wapakoneta | OH0027952 | Lake Erie | N | Auglaize River | NDA | 10634 | 4 | | | | | |
| 5 | Wauseon | OH0023400 | Lake Erie | N | North Turkeyfoot Creek | NDA | 7091 | 1.5 | | | | | |
| 5 | Willard | OH0028118 | Lake Erie | N | Jacobs Creek | NDA | 6290 | 4.5 | | | | | |
| 5 | Woodville | OH0020591 | Lake Erie | N | Portage River | NDA | 2135 | 0.3 | | | | | |
| 5 | Akron | OH0023833 | Lake Erie | N | Cuyahoga River | NDA | 299577 | 110 | | | | | |
| 5 | Bucyrus | OH0052922 | Lake Erie | N | Sandusky River | NDA | 13500 | 3.4 | | | | | |
| 5 | Clyde | OH0024868 | Lake Erie | N | Raccoon Creek | NDA | 8222 | 1.9 | | | | | |
| 5 | Euclid | OH0031062 | Lake Erie | Υ | Lake Erie | NDA | 86387 | 22 | | | | | |
| 5 | Fostoria | OH0025364 | Lake Erie | N | Portage River, East Branch | NDA | 19894 | 12.7 | | | | | |
| 5 | Lakewood | OH0026018 | Lake Erie | Y | Lake Erie | NDA | 52551 | 18 | | | | | |
| 5 | Lima | OH0026069 | Lake Erie | N | Ottawa River | NDA | 47000 | 18.5 | | | | | |
| 5 | NEORSD | OH0043991 | Lake Erie | Υ | Lake Erie | NDA | 1085439 | 365 (Easterly - 155; Southerly - 175; Westerly - 35) | | | | | |
| 5 | Port Clinton | OH0052876 | Lake Erie | N | Portage River | NDA | 7211 | 2 | | | | | |
| 5 | 5 Toledo OH0027740 Lake Erie N Maumee River NDA 322446 130 | | | | | | | | | | | | |
| Key: \ | ' = Yes; N = No; NDA = | No Data Available | | | | | | | | | | | |

| Table A- 12. (| Ohio LTCP S | Status | | | | | | | |
|--------------------------------------|---------------------|------------------------|--|--|-----------------|----------------|---------------|--|---|
| of | | | _ | 0 | LTCP | or Alter | native CSO Co | ntrol Plar | 1 |
| Name of Municipal Operator of CSS | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) | Description of Alternative CSO Control Plan | Submitted (Y/N) | Approved (Y/N) | Approval Date | Projected Date for Full Implementation | Milestones |
| Avon Lake | OH0023981 | Υ | N | SS | Υ | Υ | 12/17/2004 | 2019 | Phase 3 of separation by 2019 |
| Bluffton | OH0020851 | Υ | N | NDA | Υ | Υ | 1/16/1996 | 2007 | NDA |
| Bowling Green | OH0024139 | Υ | N | NDA | Υ | Υ | 3/1/2008 | 2009 | NDA |
| Columbus Grove | OH0024759 | Υ | N | SS | Υ | Υ | 6/17/2008 | 2018 | Phase 3 separation by 2016; Phase 4 (full) separation by 2018 |
| Crestline | OH0020664 | Y | Y | Other | Υ | Υ | 7/31/2005 | 2020 | Phase 4 separation by 2015; Stage 2 Improvement Plan due 2018 |
| Defiance | OH0024889 | Y | Y | SS | Υ | Y | Not known | 2026 | Annual phases of separation until full separation in 2026 |
| Delphos | OH0024929 | Y | Y | NDA | Υ | Υ | 12/16/2004 | TBD | Submit addendum for further controls by June 2015 |
| Delta | OH0020974 | Υ | N | NDA | Υ | Υ | 10/9/2013 | 2016 | Plant improvements and 5 MG EQ basin by 2016 |
| Deshler | OH0022471 | Υ | N | NDA | Υ | Υ | 2/9/1994 | 2013 | NDA |
| Dunkirk | OH0048321 | Υ | Υ | SS | Υ | Υ | 3/8/2006 | 2016 | NDA |
| Elyria | OH0025003 | Υ | N | NDA | N | N | N/A | TBD | NDA |
| Fayette | OH0025127 | Υ | N | SS | Υ | Υ | 5/1/2010 | 2015 | Separation by 2015 |
| Findlay | OH0025135 | Υ | N | NDA | Υ | Υ | 1998 | 2000 | NDA |
| Forest | OH0025151 | Υ | N | NDA | Υ | Υ | 2/24/1997 | 2010 | NDA |
| Fremont | OH0025291 | Υ | N | NDA | Υ | Y | 4/8/2010 | 2028 | Plant improvements by 2015; HRT by 2022 |
| Gibsonburg | OH0029122 | Y | N | NDA | Υ | Υ | 2/8/2007 | TBD | EQ basin improvements in 2015; remaining schedule under review |
| Green Springs | OH0022578 | Y | N | NDA | Υ | Y | 1/16/2008 | 2019 | Supplemental sewer separation and I/I removal by 2019 |
| Greenwich | OH0020486 | Υ | N | NDA | Υ | Υ | 7/10/2008 | 2025 | Evaluation of Phase I improvements in 2017 |
| Hamler | OH0021105 | Y | N | NDA | Υ | Υ | 5/18/1998 | 2006 | NDA |
| Hicksville | OH0025771 | Υ | N | NDA | Υ | Υ | 6/19/2009 | TBD | TBD |
| Leipsic | OH0020826 | Υ | N | NDA | Υ | Υ | 9/19/2005 | 2009 | NDA |
| Luckey | OH0058971 | N | Υ | SS | Υ | Υ | 2/24/1997 | 2008 | NDA |
| McComb | OH0026263 | Υ | N | NDA | Υ | Υ | 1/2/2006 | 2018 | Elimination of bypass by 2018 |
| Metamora | OH0058408 | Υ | N | NDA | Υ | Υ | 12/31/1998 | 2007 | NDA |
| Monroeville | OH0020095 | Y | N | SS | Υ | Υ | 9/10/2010 | 2021 | 1st phase of separation by 2017; total separation by 2021 |
| Montpelier | OH0021831 | Υ | N | SS | Υ | Υ | 12/8/2006 | 2026 | Phase 4 separation by 2019; Phase 5 by 2023; total separation by 2026 |

| Table A- 12. C | Ohio LTCP S | Status | | | | | | | |
|--------------------------------------|---------------------|------------------------|--|--|-----------------|----------------|---------------|--|--|
| of | | | ر | SO | LTCP | or Alter | native CSO Co | ntrol Plar | |
| Name of Municipal Operator of CSS | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) | Description of Alternative CSO Control Plan | Submitted (Y/N) | Approved (Y/N) | Approval Date | Projected Date for Full Implementation | Milestones |
| Napoleon | OH0020893 | Υ | N | NDA | Υ | Υ | 3/30/2007 | 2025 | I/I reduction & sewer improvements by 2025 |
| North Baltimore | OH0020117 | Υ | N | SS | Υ | Υ | 2/27/2003 | 2017 | Total separation by 2017 |
| Norwalk | ОН0052604 | Y | N | NDA | Υ | Υ | 1/2/2006 | 2027 | Eliminate Pleasant St CSO by 2017; Washington St CSO reduction by 2022; Cline St CSO reduction by 2027 |
| Oak Harbor | OH0026841 | Υ | N | NDA | Υ | Υ | 6/7/2004 | 2009 | NDA |
| Ohio City | OH0023396 | Υ | N | NDA | Υ | Υ | 4/10/1996 | 2017 | Stress testing and PCCM by 2017 |
| Pandora | OH0021148 | Υ | N | NDA | Υ | Υ | 5/17/1994 | 2012 | PCCM results due in 2017 |
| Paulding | OH0020338 | Υ | N | SS | Υ | Υ | 12/12/2003 | 2018 | Total separation by 2018 |
| Payne | OH0021326 | Υ | N | NDA | Υ | Υ | 11/1/2007 | 2012 | NDA |
| Perrysburg | OH0021008 | Υ | N | SS | Υ | Υ | 2/24/1997 | 2017 | Total separation by 2017 |
| Sandusky | OH0027332 | Υ | N | NDA | Υ | Υ | 11/26/1997 | TBD | Future controls and schedule being negotiated |
| Swanton | OH0020524 | Υ | N | SS | Υ | Υ | 2/4/2011 | 2026 | Phased separation; total separation by 2026 |
| Tiffin | OH0052949 | Υ | N | NDA | Υ | Υ | 11/1/2008 | 2026 | Revised LTCP due 12/31/15 |
| Upper Sandusky | OH0020001 | Y | N | NDA | Υ | Υ | Not known | TBD | Separation of 3 project areas by 2016; new LTCP by 2016; WWTP improvements or replacement by 2020 |
| VanWert | OH0027910 | Υ | N | NDA | Υ | Υ | 6/30/2011 | 2021 | Plans for EQ basin or other improvements by 2017 |
| Wapakoneta | ОН0027952 | Y | N | NDA | Υ | Υ | 5/28/2010 | 2021 | Phase 1 improvements by 2015 (new interceptor, wet weather pump station, & storage basin); Phase 2 by 2017; Phase 3 by 2019; Phase 4 by 2021 |
| Wauseon | OH0023400 | Υ | N | NDA | Υ | Υ | 2/24/1997 | 2013 | N/A |
| Willard | OH0028118 | N | N | NDA | N | N | N/A | 2000* | N/A |
| Woodville | OH0020591 | Υ | N | NDA | Υ | Υ | 8/24/2007 | 2017 | PCCM results due in 2015 |
| Akron | OH0023833 | Y | N | NDA | Y | Υ | 4/11/2012 | 2028 | Ohio Canal storage tunnel by 2018; HRT at WWTP by 2019; Storage basins eliminating 9 CSOs by 2022; Northside Interceptor tunnel eliminating 4 CSOs by 2026; HRT for Ohio Canal tunnel by 2027 |
| Bucyrus | OH0052922 | Υ | N | NDA | Υ | N | N/A | TBD | N/A |
| Clyde | OH0024868 | Υ | N | NDA | Υ | Υ | 2/1/2008 | 2015 | Construction of EQ Basin by 12/30/15 |

| Table A- 12. (| Table A- 12. Ohio LTCP Status | | | | | | | | | | | | |
|--------------------------------------|-------------------------------|------------------------|--|---|---------|----------------|----------------|---|---|--|--|--|--|
| ır of | | | an | 080 | LTCP | or Alter | native CSO Co | ntrol Plar | 1 | | | | |
| Name of Municipal Operator of CSS | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) Description of Alternative CSO Control Plan | | Approved (Y/N) | Approval Date | Projected Date for Full Implementation | Milestones | | | | |
| Euclid | OH0031062 | Y | N | NDA | Υ | Υ | 1/8/2013 | 2025 | EQ basins for CSOs 06 & 09 by 2020; EQ basins for CSOs 07 & 12 by 2021; EQ basin for CSO 08 by 2024; EQ basin for CSO 12 by 2025 | | | | |
| Fostoria | OH0025364 | Y | N | NDA | Υ | Υ | 7/5/2013 | 2029 | Mitigate river intrusion by 2016; elimination of CSO 5 by 2019; Phase 2 WWTP upgrades by 2025; elimination of CSOs 2 and 3 by 2029 | | | | |
| Lakewood | OH0026018 | Υ | N | NDA | Υ | N | N/A | TBD | N/A | | | | |
| Lima | OH0026069 | Y | N | NDA | Υ | Υ | 1/13/2015 | 2038 | Separation of 12 CSOs by 2017; WWTP upgrades by 2018; CSO storage basin by 2024; SSO controls by 2038 | | | | |
| NEORSD | OH0043991 | Y | N | NDA | Y | Y | 6/30/2011 | 2034 | Increase Easterly capacity by 2016; eventual HRT at all WWTPs; multiple storage tunnels by 2027 | | | | |
| Port Clinton | OH0052876 | Y | N | NDA | Υ | Υ | 12/21/2000 | 2010 | N/A | | | | |
| Toledo | OH0027740 | Y | N | NDA | Υ | Υ | 6/5/2009 | 2020 | 1.6 MG basin by 2017; 25.1 MG storage basin by 2018; additional conveyance & storage by 2020 | | | | |
| Key: Y = Yes; N = I | No; N/A = Not A | pplicable; ND | OA = No Data | Available; | SS = Se | wer Sep | aration; TBD = | To Be De | termined | | | | |

| Table A- 13. Ohi | io Post-Construction | on Compliance Mo | onitoring Program | Status | |
|--------------------------------------|----------------------|--|--|---|---|
| Name of Municipal Operator of CSS | NPDES Permit Number | Post-Construction Compliance Monitoring Plan Required (Y/N) | Post-Construction Compliance Monitoring Plan Submitted (Y/N) | Post-Construction Compliance Monitoring Plan Approved (Y/N) | Post-Construction Compliance Monitoring Plan Approval Date |
| Avon Lake | OH0023981 | Υ | NDA | NDA | NDA |
| Bluffton | OH0020851 | Υ | NDA | NDA | NDA |
| Bowling Green | OH0024139 | Y | Y | Y | NDA |
| Columbus Grove | OH0024759 | Υ | NDA | NDA | NDA |
| Crestline | OH0020664 | Υ | NDA | NDA | NDA |
| Defiance | OH0024889 | Υ | Υ | Υ | 2010 |
| Delphos | OH0024929 | Υ | Υ | Υ | NDA |
| Delta | OH0020974 | Υ | Υ | Υ | 10/9/2013 |
| Deshler | OH0022471 | Υ | Υ | Υ | NDA |
| Dunkirk | OH0048321 | Υ | NDA | NDA | NDA |
| Elyria | OH0025003 | Υ | N | N | N/A |
| Fayette | OH0025127 | Υ | Υ | Υ | Not known |
| Findlay | OH0025135 | Υ | Υ | Υ | 12/15/2014 |
| Forest | OH0025151 | Υ | NDA | NDA | Not known |
| Fremont | OH0025291 | Υ | Υ | Υ | 4/8/2010 |
| Gibsonburg | OH0029122 | Υ | NDA | NDA | NDA |
| Green Springs ¹ | OH0022578 | Υ | NDA | NDA | NDA |
| Greenwich | OH0020486 | Υ | Υ | Υ | 7/10/2008 |
| Hamler | OH0021105 | Υ | NDA | NDA | NDA |
| Hicksville ² | OH0025771 | Υ | NDA | NDA | NDA |
| Leipsic | OH0020826 | Υ | Υ | Υ | 5/6/2014 |
| Luckey³ | OH0058971 | Υ | NDA | NDA | NDA |
| McComb | OH0026263 | Υ | NDA | NDA | NDA |
| Metamora | OH0058408 | Υ | NDA | NDA | NDA |
| Monroeville | OH0020095 | Υ | NDA | NDA | NDA |
| Montpelier | OH0021831 | Υ | NDA | NDA | NDA |
| Napoleon | OH0020893 | Υ | NDA | NDA | NDA |
| North Baltimore | OH0020117 | Υ | NDA | NDA | NDA |
| Norwalk | OH0052604 | Υ | NDA | NDA | NDA |
| Oak Harbor | OH0026841 | Υ | NDA | NDA | NDA |
| Ohio City | OH0023396 | Υ | NDA | NDA | NDA |
| Pandora | OH0021148 | Υ | NDA | NDA | NDA |
| Paulding | OH0020338 | Υ | NDA | NDA | NDA |
| Payne | OH0021326 | Y | NDA | NDA | NDA |

| Table A- 13. Ohio | Table A- 13. Ohio Post-Construction Compliance Monitoring Program Status | | | | | | | | | | | |
|--|--|--|--|---|---|--|--|--|--|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | Post-Construction Compliance Monitoring Plan Required (Y/N) | Post-Construction Compliance Monitoring Plan Submitted (Y/N) | Post-Construction Compliance Monitoring Plan Approved (Y/N) | Post-Construction Compliance Monitoring Plan Approval Date | | | | | | | |
| Perrysburg | OH0021008 | Y | NDA | NDA | NDA | | | | | | | |
| Sandusky | OH0027332 | Υ | NDA | NDA | NDA | | | | | | | |
| Swanton | OH0020524 | Υ | NDA | NDA | NDA | | | | | | | |
| Tiffin | OH0052949 | Υ | NDA | NDA | NDA | | | | | | | |
| Upper Sandusky | OH0020001 | Y | NDA | NDA | NDA | | | | | | | |
| VanWert | OH0027910 | Y | NDA | NDA | NDA | | | | | | | |
| Wapakoneta | OH0027952 | Υ | NDA | NDA | NDA | | | | | | | |
| Wauseon ⁴ | OH0023400 | Υ | NDA | NDA | NDA | | | | | | | |
| Willard ⁵ | OH0028118 | N | NDA | NDA | NDA | | | | | | | |
| Woodville | OH0020591 | Υ | NDA | NDA | NDA | | | | | | | |
| Akron | OH0023833 | Υ | NDA | NDA | NDA | | | | | | | |
| Bucyrus | OH0052922 | Υ | NDA | NDA | NDA | | | | | | | |
| Clyde | OH0024868 | Υ | NDA | NDA | NDA | | | | | | | |
| Euclid | OH0031062 | Υ | NDA | NDA | NDA | | | | | | | |
| Fostoria | OH0025364 | Υ | NDA | NDA | NDA | | | | | | | |
| Lakewood | OH0026018 | Υ | NDA | NDA | NDA | | | | | | | |
| Lima | OH0026069 | Υ | NDA | NDA | NDA | | | | | | | |
| NEORSD | OH0043991 | Υ | NDA | NDA | NDA | | | | | | | |
| Port Clinton OH0052876 Y NDA NDA NDA | | | | | | | | | | | | |
| Toledo OH0027740 Y NDA NDA NDA | | | | | | | | | | | | |
| Key: Y = Yes; N = No; N/A = Not Applicable; NDA = No Data Available | | | | | | | | | | | | |
| ¹ Old WWTP operates as | EQ basin; Green Springs flo | ow connected to Clyde's sy | stem | | | | | | | | | |
| ² LTCP Addendum II unde | er review | | | | | | | | | | | |

² LTCP Addendum II under review

³ Permit required submission of Sewer Separation plan rather than LTCP

⁴ LTCP submitted with no requirements in permit to do so

 $^{^{\}rm 5}$ Achieved compliance with CSO Policy without need for LTCP

| Table A- 14. Or | nio Pre- and Pos | t-Constr | uction CS | O Status | | | | | |
|-----------------------------------|---------------------|---|-----------|-----------------------------------|---|--|-----------------------------------|---|-----------|
| Name of Municipal Operator of CSS | NPDES Permit Number | Average Annual Number of CSO Events Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) | | Average Annual Historic Volume of | CSOS Before implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | Average Annual Number of CSO Events After Implementation of CSO | Control Plan (LTCP or Alternative | Average Annual Volume of CSOs Anticipated After Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | |
| Nam | Name | | Untreated | Treated | Untreated | Treated | Untreated | Treated | Untreated |
| Avon Lake | OH0023981 | NDA | NDA | NDA | 153.6 | 0 | 0 | 0 | 0 |
| Bluffton | OH0020851 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Bowling Green | OH0024139 | NDA | NDA | NDA | NDA | 0 | 4 | 0 | NDA |
| Columbus Grove | OH0024759 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Crestline | OH0020664 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Defiance | OH0024889 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Delphos | OH0024929 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA |
| Delta | OH0020974 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA |
| Deshler | OH0022471 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA |
| Dunkirk | OH0048321 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Elyria | OH0025003 | NDA | NDA | NDA | NDA | NDA | NDA | NDA | NDA |
| Fayette | OH0025127 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Findlay | OH0025135 | NDA | NDA | NDA | NDA | 0 | 4 | 0 | NDA |
| Forest | OH0025151 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Fremont | OH0025291 | 0 | 36 | 0 | 969 | 0 | 4 | NDA | NDA |
| Gibsonburg | OH0029122 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA |
| Green Springs | OH0022578 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Greenwich | OH0020486 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA |
| Hamler | OH0021105 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Hicksville | OH0025771 | NDA | NDA | NDA | NDA | NDA | NDA | NDA | NDA |
| Leipsic | OH0020826 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Luckey | OH0058971 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| McComb | OH0026263 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Metamora | OH0058408 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Monroeville | OH0020095 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Montpelier | OH0021831 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Napoleon | OH0020893 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA |
| North Baltimore | OH0020117 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |
| Norwalk | OH0052604 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA |
| Oak Harbor | OH0026841 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA |
| Ohio City | OH0023396 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 |

| Table A- 14. Ohio Pre- and Post-Construction CSO Status | | | | | | | | | | |
|---|-----------------------|-------------|--|---------|---|---|-----------|---|-----------|--|
| e of Municipal Operator of CSS | DDE. | | Average Annual Number of CSO Events Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) Average Annual Historic Volume of | | CSOS Before implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | Average Annual Number of CSO Events After Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) | | Average Annual Volume of CSOs Anticipated After Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | | |
| Nam | | | Untreated | Treated | Untreated | Treated | Untreated | Treated | Untreated | |
| Pandora | OH0021148 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 | |
| Paulding | OH0020338 | NDA | NDR | NDR | NDR | 0 | 0 | 0 | 0 | |
| Payne | OH0021326 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA | |
| Perrysburg | OH0021008 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA | |
| Sandusky | OH0027332 | 0 | 35 | 0 | 190.58 | NDA | NDA | NDA | NDA | |
| Swanton | OH0020524 | 0 | 29 | 0 | 2.65 | 0 | 0 | 0 | 0 | |
| Tiffin | OH0052949 | 0 | 37 | 0 | 195.42 | 0 | 4 | NDA | NDA | |
| Upper Sandusky | OH0020001 | NDA | NDA | NDA | NDA | NDA | NDA | NDA | NDA | |
| VanWert | OH0027910 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA | |
| Wapakoneta | OH0027952 | 0 | 64 | 0 | 45 | 0 | 4 | 0 | 5 | |
| Wauseon | OH0023400 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA | |
| Willard | OH0028118 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA | |
| Woodville | OH0020591 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 | |
| Akron | OH0023833 | NDA | NDA | NDA | NDA | 7 | 2 | 188 | 7.4 | |
| Bucyrus | OH0052922 | NDA | NDA | NDA | NDA | NDR | NDR | NDA | NDA | |
| Clyde | OH0024868 | 0 | 23 | 0 | 12.57 | 0 | 3 | NDA | NDA | |
| Euclid | OH0031062 | 0 | 55 | 0 | NDA | 0 | 4 | NDA | NDA | |
| Fostoria | OH0025364 | NDA | NDA | NDA | NDA | 0 | 5 | NDA | NDA | |
| Lakewood | OH0026018 | NDA | NDA | NDA | NDA | NDA | NDA | NDA | NDA | |
| Lima | OH0026069 | 0 | 43 | 0 | 491.2 | 0 | 5 | NDA | NDA | |
| NEORSD | OH0043991 | NDA | NDA | 0 | 4500 | 0 | 4 | NDA | 454 | |
| Port Clinton | OH0052876 | NDA | NDA | NDA | NDA | 0 | 4 | NDA | NDA | |
| Toledo | OH0027740 | 0 | 34 | 0 | 624 | 3 | 4 | 120 | 69 | |
| Key: NDA = No Data A | wailable; NDR = No Da | ta Reported | | | | | | 1 | | |

| Table A- 15. Of | nio 2014 CSO | Status | | | | |
|--------------------------------------|---------------------|---------|------------------------------------|--------------------|---------------------------|---|
| Name of Municipal Operator of CSS | NPDES Permit Number | | Total Number CSO Events in 2014 | Total CSO Overflow | Volume in 2014 (MG/yr) | ν |
| Nam | NPDI | Treated | Untreated | Treated | Untreated | Notes |
| Avon Lake | OH0023981 | 0 | 20 | 0 | NDA | |
| Bluffton | OH0020851 | 0 | 0 | 0 | 0 | |
| Bowling Green | OH0024139 | 0 | 1 | 0 | 1.99 | |
| Columbus Grove | OH0024759 | 0 | 0 | 0 | 0 | |
| Crestline | OH0020664 | 0 | 22 | 0 | NDA | |
| Defiance | OH0024889 | 0 | 92 | 0 | 180.8 | |
| Delphos | OH0024929 | 0 | 23 | 0 | 98.25 | |
| Delta | OH0020974 | 0 | 6 | 0 | 3.24 | |
| Deshler | OH0022471 | 0 | 5 | 0 | 11.25 | |
| Dunkirk | OH0048321 | 0 | 0 | 0 | 0 | |
| Elyria | OH0025003 | 0 | NDA | 0 | NDA | |
| Fayette | OH0025127 | 0 | 0 | 0 | 0 | |
| Findlay | OH0025135 | 0 | 2 | 0 | 7.5 | |
| Forest | OH0025151 | 0 | 0 | 0 | 0 | |
| Fremont | OH0025291 | 0 | 26 | 0 | 862.56 | |
| Gibsonburg | OH0029122 | 0 | 6 | 0 | 76.64 | |
| Green Springs | OH0022578 | 0 | 0 | 0 | 0 | Old WWTP operates as EQ basin; Green Springs flow connected to Clyde's system |
| Greenwich | OH0020486 | 0 | 48 | 0 | 4.61 | |
| Hamler | OH0021105 | 0 | 0 | 0 | 0 | |
| Hicksville | OH0025771 | 0 | 4 | 0 | 5.75 | LTCP Addendum II under review |
| Leipsic | OH0020826 | 0 | 0 | 0 | 0 | |
| Luckey | OH0058971 | 0 | 0 | 0 | 0 | Permit required submission of Sewer Separation plan rather than LTCP |
| McComb | OH0026263 | 0 | 0 | 0 | 0 | |
| Metamora | OH0058408 | 0 | 0 | 0 | 0 | |
| Monroeville | OH0020095 | 0 | 0 | 0 | 0 | |
| Montpelier | OH0021831 | 0 | 0 | 0 | 0 | |
| Napoleon | OH0020893 | 0 | 7 | 0 | 0.78 | |
| North Baltimore | OH0020117 | 0 | 16 | 0 | 9.68 | |
| Norwalk | OH0052604 | 0 | 6 | 0 | 2.49 | |
| Oak Harbor | OH0026841 | 0 | NDA | 0 | NDA | |
| Ohio City | OH0023396 | 0 | 0 | 0 | 0 | |
| Pandora | OH0021148 | 0 | 0 | 0 | 0 | |
| Paulding | OH0020338 | 0 | 1 | 0 | 0.05 | |

| Table A- 15. Ohio 2014 CSO Status | | | | | | | | | | | |
|--------------------------------------|---------------------|--------------|------------------------------------|---------|---------------------------|---|--|--|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | | Total Number CSO Events in 2014 | | Volume in 2014 (MG/yr) | S | | | | | |
| Nam Oper | NPD | Treated | Untreated | Treated | Untreated | Notes | | | | | |
| Payne | OH0021326 | 0 | 0 | 0 | 0 | | | | | | |
| Perrysburg | OH0021008 | 0 | 12 | 0 | 82.78 | | | | | | |
| Sandusky | OH0027332 | 0 | 20 | 0 | 73.61 | | | | | | |
| Swanton | OH0020524 | 0 | 14 | 0 | 0.535 | | | | | | |
| Tiffin | OH0052949 | 0 | NDA | 0 | NDR | | | | | | |
| Upper Sandusky | OH0020001 | 0 | 45 | 0 | 34.51 | | | | | | |
| VanWert | OH0027910 | 0 | 13 | 0 | 26.09 | | | | | | |
| Wapakoneta | OH0027952 | 0 | 10 | 0 | 19.4 | | | | | | |
| Wauseon | OH0023400 | 0 | 5 | 0 | 5.68 | LTCP submitted with no requirements in permit to do so | | | | | |
| Willard | OH0028118 | 0 | 0 | 0 | 0 | Achieved compliance with CSO Policy without need for LTCP | | | | | |
| Woodville | OH0020591 | 0 | 0 | 0 | 0 | | | | | | |
| Akron | OH0023833 | 0 | 80 | 0 | 878.25 | | | | | | |
| Bucyrus | OH0052922 | 0 | NDA | 0 | NDA | | | | | | |
| Clyde | OH0024868 | 0 | 5 | 0 | 1.46 | | | | | | |
| Euclid | OH0031062 | 0 | 58 | 0 | 71.56 | | | | | | |
| Fostoria | OH0025364 | 0 | 56 | 0 | 169.14 | | | | | | |
| Lakewood | OH0026018 | 0 | 107 | 0 | 210.73 | | | | | | |
| Lima | OH0026069 | 0 | 69 | 0 | NDR | | | | | | |
| NEORSD | OH0043991 | 27 | NDR | 434.7 | NDR | | | | | | |
| Port Clinton | OH0052876 | 0 | 6 | 0 | 7.7 | | | | | | |
| Toledo | OH0027740 | 0 | 39 | 0 | 311.05 | | | | | | |
| Key: NDA = No Data A | Available; NDR = No | Data Reporte | d | | | · | | | | | |

| Tak | ole A- 16. Michi | gan CSO Co | mmunity Su | ımmar | y Information | | | |
|------------|--------------------------------------|------------------------|-------------------------------------|---------------------------------------|---|-----------------------------|---------------------------------------|----------------------------------|
| EPA Region | Name of Municipal Operator of CSS | NPDES Permit Number | Name of Great Lake Discharged to | Direct Discharge into Great Lakes? | Name of Water body Directly Discharged into | Population Served by CSS | Population Served by WWTP | Design Capacity of WWTP (MGD) |
| 5 | Adrian WWTP | MI0022152 | Lake Erie | N | South Branch Raisin River | 21,133 | 35,789 | 7.0 |
| 5 | Bay City WWTP | MI0022284 | Lake Huron | N | Saginaw River | 70,971 | 94,157 | 32.0 |
| 5 | Birmingham | MI0025534 | Lake Erie | N | Rouge River | 11,410 | 2,959,021 (Detroit) | 930.0 |
| 5 | Bloomfield Village CSO | MI0048046 | Lake Erie | N | Rouge River | 9,180 | 2,959,021 (Detroit) | 930.0 |
| 5 | Chapaton RTB | MI10025585 | Lake Erie | N | Chapaton Canal | 42,508 | 2,959,021 (Detroit) | 930.0 |
| 5 | Croswell WWTP | MI10021083 | Lake Erie | N | Black River | 2,447 | 2,447 | 0.5 |
| 5 | Crystal Falls CSO | MI0048879 | Lake Michigan | N | Paint River | 1,900 | 1,900 | 1.15 (ground water discharge) |
| 5 | Dearborn CSO | MI0025542 | Lake Erie | N | Rouge River; Lower Rouge River | 98,153 | 2,959,021 (Detroit) | 930.0 |
| 5 | Dearborn Heights CSO | MI0051811 | Lake Erie | N | Middle Rouge River | 56,620 | 2,959,021 (Detroit) | 930.0 |
| 5 | Detroit WWTP | MI0022802 | Lake Erie | N | Rouge River; Detroit River | 1,016,585 | 2,959,021 (Detroit) | 930.0 |
| 5 | Dundee WWTP | MI0020401 | Lake Erie | N | Raisin River | 4,600 | 4,600 | 1.5 |
| 5 | East Lansing WWTP | MI0022853 | Lake Michigan | N | Red Cedar River | 46,500 | 85,500 | 18.8 |
| 5 | Essexville WWTP | Mi0022918 | Lake Huron | N | Saginaw River | 3,478 | 57,018 (West Bay Co Regional WWTP) | 10.3 |
| 5 | Gladwin WWTP | MI0023001 | Lake Huron | N | Cedar River | 3,000 | 3,000 | 0.7 |
| 5 | Grand Rapids WWTP | MI0026069 | Lake Michigan | N | Grand River | 197,800 | 261,189 | 61.1 |
| 5 | Grosse Pointe Farms CSO | MI0026077 | Lake Erie | N | Lake St. Clair | 9,310 | 2,959,021 (Detroit) | 930.0 |
| 5 | Grosse Pointe Shores CSO | MI0026085 | Lake Erie | N | Lake St. Clair | 2,450 | 2,959,021 (Detroit) | 930.0 |
| 5 | Inkster/Dearborn Heights CSO | MI0051837 | Lake Erie | N | Lower Rouge River | NDA | 2,959,021 (Detroit) | 930.0 |
| 5 | Iron Mountain Kingsford WWTP | MI0023205 | Lake Michigan | N | Menominee River | 12,757 | 14,200 | 3.3 |
| 5 | Lansing WWTP | MI0023400 | Lake Michigan | N | Grand River; Red Cedar River | 114,297 | 122,451 | 35.0 |
| 5 | Manistee WWTP | MI0020362 | Lake Michigan | N | Manistee Lake | 6,226 | 7,226 | 1.3 |
| 5 | Manistique WWTP | MI0023515 | Lake Michigan | N | Manistique River | 3,483 | 3,483 | 1.5 |
| 5 | Marysville WWTP | MI0020656 | Lake Erie | N | St. Clair River | 9,959 | 9,959 | 3.6 |
| 5 | Menominee WWTP | MI0025631 | Lake Michigan | N | Menominee River | 8,600 | 8,600 | 3.2 |
| 5 | Milk River CSO RTB | MI0025500 | Lake Erie | N | Milk River | 30,275 | 2,959,021 (Detroit) | 930.0 |
| 5 | Mt. Clemens WWTP | MI0023647 | Lake Erie | N | Clinton River | 16,399 | 16,699 | 6.0 |
| 5 | Niles WWTP | MI0023701 | Lake Michigan | N | St. Joseph River | 11,200 | 23,504 | 5.8 |

| Table A- 16. Michigan CSO Community Summary Information | | | | | | | | | | |
|---|--|------------------------|-------------------------------------|---------------------------------------|---|-----------------------------|--------------------------------------|----------------------------------|--|--|
| EPA Region | Name of Municipal Operator of CSS | NPDES Permit Number | Name of Great Lake Discharged to | Direct Discharge into Great Lakes? | Name of Water body Directly Discharged into | Population Served by CSS | Population Served by WWTP | Design Capacity of WWTP (MGD) | | |
| 5 | North Houghton Co W&SA CSO | MI0043982 | Lake Superior | N | St. Louis Creek; Douglas Creek | 2,130 | 6,680 | 2.4 (ground water discharge) | | |
| 5 | Norway WWTP | MI0020214 | Lake Michigan | N | White Creek | 2,835 | 3,408 | 0.5 | | |
| 5 | Oakland Co- ACACIA Park CSO | MI0037427 | Lake Erie | N | Rouge River | 7,650 | 2,959,021 (Detroit) | 930.0 | | |
| 5 | Oakland Co- SOCSDS 12 Towns RTF (George W. Kuhn CSO RTB) | MI0026115 | Lake Erie | N | Red Run Drain | 208,279 | 2,959,021 (Detroit) | 930.0 | | |
| 5 | Port Huron WWTP | MI0023833 | Lake Erie | N | St. Clair River; Black River | 32,000 | 64,000 | 20.0 | | |
| 5 | Redford TWP CSO | MI0051829 | Lake Erie | N | Ashcroft-Sherwood Drain | 48,360 | 2,959,021 (Detroit) | 930.0 | | |
| 5 | River Rouge CSO | MI0028819 | Lake Erie | N | Rouge River | 8,255 | 268,706 (Wayne Co Downriver WWTP) | 125.0 | | |
| 5 | Saginaw TWP WWTP | MI0023973 | Lake Huron | N | Tittabawassee River | 40,000 | 49,000 | 6.5 | | |
| 5 | Saginaw WWTP | MI0025577 | Lake Huron | N | Saginaw River | 70,971 | 94,157 | 32.0 | | |
| 5 | Sault St. Marie WWTP | MI0024058 | Lake Huron | N | St. Marys River; Edison Power Canal | 15,000 | 15,500 | 8.0 | | |
| 5 | South Macomb SD Martin RTB | MI0025453 | Lake Erie | N | Lake St. Clair | 67,728 | 2,959,021 (Detroit) | 930.0 | | |
| 5 | Southgate/ Wyandotte CSO RTF | MI0036072 | Lake Erie | N | Trenton Channel | 58,142 | 268,706 (Wayne Co Downriver WWTP) | 125.0 | | |
| 5 | St. Clair WWTP | MI0020591 | Lake Erie | N | St. Clair River | 7,564 | 7,564 | 1.4 | | |
| 5 | St. Joseph CSO | MI0026735 | Lake Michigan | N | St. Joseph River | 8,800 | 57,581 | 15.3 | | |
| 5 | Wakefield WWSL | MI0021440 | Lake Superior | N | Planter Creek | 1,851 | 1,851 | 0.6 | | |
| 5 | Wayne Co/Dearborn Heights CSO | MI0051489 | Lake Erie | N | Middle Rouge; Upper Rouge; Lower Rouge Rivers | 5,000 | 2,959,021 (Detroit) | 930.0 | | |
| 5 | Wayne Co/Inkster CSO | MI0051471 | Lake Erie | N | Lower Rouge River | 26,031 | 2,959,021 (Detroit) | 930.0 | | |
| 5 | Wayne Co/Inkster/ DRBRN HTS CSO | MI0051462 | Lake Erie | N | Lower Rouge River | Unavailable | 2,959,021 (Detroit) | 930.0 | | |
| 5 | Wayne Co/RDFRD/ Livonia CSO | MI0051535 | Lake Erie | N | Ashcroft-Sherwood Drain; Upper Rouge River; Bell Branch of Upper Rouge River | 15,000 | 2,959,021 (Detroit) | 930.0 | | |
| Key: | N = No; NDA = No Da | ta Available | | | | | | | | |

| Table A- 17. Michigan LTCP Status | | | | | | | | | | |
|--------------------------------------|---------------------|------------------------|--|--|---|--|--|---|--|--|
| of | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y.N/NA) | Description of Alternative CSO Control Plan | LTCP or Alternative CSO Control Plan | | | | | |
| Name of Municipal Operator of CSS | | | | | CSO Control Plan (LTCP or Alternative CSO Control Plan) Submitted (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approved (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approval Date | Projected Date for Full Implementation of LTCP or Alternative CSO Control Plan ¹ | CSO Control Plan (LTCP or Alternative CSO Control Plan) Milestones | |
| Adrian WWTP | MI0022152 | Υ | Υ | SS | Υ | Υ | 4/28/2010 | 4/1/2-16 | Footnote 1 | |
| Bay City WWTP | MI0022284 | Y | N | Other | Υ | Υ | Unavailable, 5 RTBs constructed in 1977, last upgrade to RTB in 2001 | Complete | Footnote 2 | |
| Birmingham | MI0025534 | Υ | N | Other | Υ | Υ | 10/1/1989 | Complete | Footnote 3 | |
| Bloomfield Village CSO | MI0048046 | Υ | N | Other | Υ | Υ | 10/1/1989 | Complete | Footnote 4 | |
| Chapaton RTB | MI10025585 | Υ | N | Other | Υ | Y | Original facilities constructed in 1969, 12/1/1998 LTCP update | Complete | Footnote 5 | |
| Croswell WWTP | MI10021083 | Υ | Υ | SS | Υ | Υ | Unavailable | Completed in 2008 | Footnote 6 | |
| Crystal Falls CSO | MI0048879 | Υ | Υ | SS | Υ | Υ | 5/15/1997 | Complete | Footnote 7 | |
| Dearborn CSO | MI0025542 | Υ | Υ | Other | Υ | Υ | 2002 revised May 2014 | 1/1/2027 | Footnote 8 | |
| Dearborn Heights CSO | MI0051811 | Υ | Υ | SS | Υ | Υ | 2001 | Complete | Footnote 9 | |
| Detroit WWTP | MI0022802 | Υ | Υ | Other | Υ | Υ | July 1996, last updated March 2015 | 12/1/2019 | Footnote 10 | |
| Dundee WWTP | MI0020401 | Υ | Υ | SS | Υ | Υ | ~1994 | Complete | Footnote 7 | |
| East Lansing WWTP | MI0022853 | Υ | N | Other | Υ | Υ | 5/19/1993 | Complete | Footnote 11 | |
| Essexville WWTP | Mi0022918 | Υ | Z | Other | Υ | Υ | Unavailable, last updated 2012 | 10/1/2018 | Footnote 12 | |
| Gladwin WWTP | MI0023001 | Υ | Υ | SS | Υ | Υ | Unavailable | Complete | Footnote 7 | |
| Grand Rapids WWTP | MI0026069 | Υ | Υ | SS | Υ | Υ | 10/1/1991, addenda 2/13/2001 & 9/21/2006 | 9/1/2021 | Footnote 13 | |
| Grosse Pointe Farms CSO | MI0026077 | Υ | Υ | SS | Υ | Υ | 1997 | Complete | Footnote 7 | |
| Grosse Pointe Shores CSO | MI0026085 | Υ | Υ | SS | Υ | Υ | 1997 | Complete | Footnote 7 | |
| Inkster/Dearborn Heights CSO | MI0051837 | Υ | N | Other | Υ | Υ | 5/1/2007 | 12/1/2022 | Footnote 14 | |
| Iron Mountain Kingsford WWTP | MI0023205 | Υ | N | Other | Υ | Υ | Unavailable; RTB constructed in 1983 | Complete | Footnote 15 | |
| Lansing WWTP | MI0023400 | Υ | Υ | SS | Υ | Υ | 3/9/1992 | 12/1/2019 | Footnote 16 | |
| Manistee WWTP | MI0020362 | Υ | Υ | SS | Υ | Υ | 1996/97 | 12/1/2016 | Footnote 17 | |
| Manistique WWTP | MI0023515 | Υ | Υ | SS | Υ | Υ | 1988 | 6/1/2022 | Footnote 18 | |

| Table A- 17. Michigan LTCP Status | | | | | | | | | | |
|---|---------------------|------------------------|--|--|---|--|--|---|--|--|
| of | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) | Description of Alternative CSO Control Plan | LTCP or Alternative CSO Control Plan | | | | | |
| Name of Municipal Operator of CSS | | | | | CSO Control Plan (LTCP or Alternative CSO Control Plan) Submitted (YIN) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approved (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approval Date | Projected Date for Full Implementation of LTCP or Alternative CSO Control Plan ¹ | CSO Control Plan (LTCP or Alternative CSO Control Plan) Milestones | |
| Marysville WWTP | MI0020656 | Υ | Υ | SS | Υ | Υ | 1992 | Complete | Footnote 7 | |
| Menominee WWTP | MI0025631 | Υ | Υ | SS | Υ | Υ | Unavailable | Complete | Footnote 7 | |
| Milk River CSO RTB | MI0025500 | Y | N | Other | Υ | Y | Unavailable, original facility constructed in 1960, last upgraded in 1994 | Complete | Footnote 19 | |
| Mt. Clemens WWTP | MI0023647 | Υ | N | Other | Υ | Υ | 1997 | Complete | Footnote 20 | |
| Niles WWTP | MI0023701 | Υ | Ν | SS | Υ | Υ | 1998, last updated 2014 | 6/1/2019 | Footnote 21 | |
| North Houghton Co W&SACSO | MI0043982 | Υ | Υ | Other | Υ | Υ | Unavailable, last updated 6/25/2007 | Complete | Footnote 22 | |
| Norway WWTP | MI0020214 | Υ | N | Other | Υ | Υ | Original facility constructed in 1977/78 | Complete | Footnote 23 | |
| Oakland Co- ACACIA Park CSO | MI0037427 | Υ | N | Other | Υ | Υ | 10/1/2989 | Complete | Footnote 3 | |
| Oakland Co- SOCSDS 12 Towns RTF (George W. Kuhn CSO RTB) | MI0026115 | Υ | N | Other | Υ | Y | Original facility constructed in 1972, 6/1/2000 LTCP update | Complete | Footnote 24 | |
| Port Huron WWTP | MI0023833 | Υ | Υ | SS | Υ | Υ | 1998; last updated July 2009 | 12/1/2016 (one outfall correction may be extended past 2016) | Footnote 25 | |
| Redford TWP CSO | MI0051829 | Υ | Υ | Other | Υ | Y | 5/1/2007 | 12/30/2022 (pending extension to October 2025) | Footnote 26 | |
| River Rouge CSO | MI0028819 | Υ | Υ | Other | Υ | Υ | 1992 | Complete | Footnote 27 | |
| Saginaw TWP WWTP | MI0023973 | Y | N | Other | Υ | Y | Unavailable, last upgrade to RTB in 1991 | Complete | Footnote 28 | |
| SaginawWWTP | MI0025577 | Υ | N | Other | Υ | Υ | Unavailable, last upgrade to RTB in 1998 | Complete | Footnote 29 | |
| Sau <mark>lt St. Marie</mark> WWTP | MI0024058 | Υ | Υ | SS | Υ | Υ | 1993, last updated 2010 | 4/1/2022 | Footnote 30 | |
| South Macomb SD Martin RTB | MI0025453 | Υ | Υ | Other | Y | Υ | Original facilities constructed in 1969, 12/1/1998 LTCP update | Complete | Footnote 23 | |

| Table A- 17. Michigan LTCP Status | | | | | | | | | | | |
|--------------------------------------|---------------------|------------------------|--|--|---|--|---|---|--|--|--|
| rof | | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (YM/NA) | Description of Alternative CSO Control Plan | LTCP or Alternative CSO Control Plan | | | | | | |
| Name of Municipal Operator of CSS | NPDES Permit Number | | | | CSO Control Plan (LTCP or Alternative CSO Control Plan) Submitted (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approved (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approval Date | Projected Date for Full Implementation of LTCP or Alternative CSO Control Plan ¹ | CSO Control Plan (LTCP or Alternative CSO Control Plan) Milestones | | |
| Southgate/Wyando tte CSO RTF | MI0036072 | Υ | Υ | Other | Υ | Υ | Original facility constructed in 1977, 6/1/2003 LTCP update | 10/1/2015 | Footnote 31 | | |
| St. Clair WWTP | MI0020591 | Υ | Υ | SS | Υ | Υ | 1990 | Complete | Footnote 7 | | |
| St. Joseph CSO | MI0026735 | Υ | Υ | SS | Υ | Υ | Original 2002, last updated 2011, Projected Update 2015 | 11/1/2020 | Footnote 32 | | |
| Wakefield WWSL | MI0021440 | Υ | Υ | SS | Υ | Υ | 1995, last updated 2004, Projected Update 2015 | Complete | Footnote 33 | | |
| Wayne Co/Dearborn Heights CSO | MI0051489 | Υ | Υ | Other | Υ | Y | 5/1/2007 | 9/1/2015 (pending extension to October 2025) | Footnote 34 | | |
| Wayne Co/Inkster CSO | MI0051471 | Υ | Υ | Other | Υ | Υ | 5/1/2007 | 3/1/2016 | Footnote 35 | | |
| Wayne Co/Inkster/DRBRN HTS CSO | MI0051462 | Υ | Υ | Other | Υ | Υ | 5/1/2007 | 9/1/2018 | Footnote 36 | | |
| Wayne Co/RDFRD/ Livonia CSO | MI0051535 | Υ | Υ | Other | Υ | Υ | 5/1/2007 | Partially complete (pending extension to October 2025) | Footnote 37 | | |

Key: Y = Yes; N = No; N/A = Not Applicable; SS = Sewer Separation

- 1. Nearing completion of separation and storage projects.
- 2. Currently collecting flow and rain fall data to conduct an evaluation study (Submitted) and model collection system for each of the 5 retention/treatment basins to determine whether adequate presumptive treatment is provided for the discharges; improvements to the retention/treatment basins may be required in the future pending the results of the evaluation studies. The study will evaluate basin 4 as a representative of basins 1 thru 4, and basin 5 separately.
- 3. Long-term Control Program being implemented; retention/treatment basin (RTB) construction complete and facility is "on-line"; no remaining untreated overflow outfalls; RTB has been shown to provide treatment that meets criteria for elimination of raw sewage & protection of public health, protection of dissolved oxygen standard, protection of physical characteristic standard, and no significant impact on downstream biological communities. The permit required "Total Residual Chlorine Mixing Zone/Plume Definition Study" has been submitted and reviewed and it has been determined that TRC in discharges does not cause violations of water quality standards. Therefore dechlorination is not required.
- 4. Long-term Control Program being implemented; retention/treatment basin (RTB) construction complete and facility is "on-line"; no remaining untreated overflow outfalls; RTB has been shown to provide treatment that meets criteria for elimination of raw sewage & protection of public health, protection of dissolved oxygen standard, protection of physical characteristic standard, and no significant impact on downstream biological communities. The permit required "Total Residual Chlorine Mixing Zone/Plume Definition Study;" has been submitted and is currently under review by the Department. The report evaluates whether or not the Total Residual Chlorine (TRC) discharges from the RTB cause violations of water quality standards.
- 5. Long-term Control Program has been completed; program & permit required 3-phase sewer construction project designed to reduce wet-weather flow quantities directed to the retention/treatment basin (RTB); permit also required submittal of RTB Evaluation Study to determine whether adequate treatment is provided to meet water quality standards (the results of the study were ultimately approved on Jan. 31, 2007); the actual construction phase of the current project is complete; there are no "uncontrolled" (i.e., untreated) CSO outfalls associated with this permittee/program. An "In-Stream Total Residual Chlorine (TRC) Effluent Plume Evaluation" is required by the permit (October 1, 2012) and shall identify the location and size of the TRC effluent plume during and after CSO discharge events and identify the maximum TRC concentrations instream at various downstream locations.
- 6. Mostly separated, retention basin and overflow pond constructed to retain excess wet weather flow.

| Table A- 17. N | Table A- 17. Michigan LTCP Status | | | | | | | | | | | | |
|-----------------------------------|-----------------------------------|------------------------|--|--|---|--|--|---|--|--|--|--|--|
| r of | | | u | SS | LTCP or Alternative CSO Control Plan | | | | | | | | |
| Name of Municipal Operator CSS | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) | Description of Alternative C Control Plan | CSO Control Plan (LTCP or Alternative CSO Control Plan) Submitted (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approved (V/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approval Date | Projected Date for Full Implementation of LTCP or Alternative CSO Control Plan ¹ | CSO Control Plan (LTCP or Alternative CSO Control Plan) Milestones | | | | |

- 7. Separation complete
- 8. Long-term Control Program being implemented; the Department reissued a permit that recognizes a modified LTCP. The permittee submitted a revised basis of design report in late 2009 followed by a financial capability assessment. The City requested a modified LTCP (and NPDES permit), to extend the construction schedule due to economic hardship. The modified LTCP will 1) correct existing construction issues with some shafts by using sewer separation and/or reconfigured use of shafts, and 2) revise some of the additional shaft projects to sewer separation projects. The Department approved the City's request and issued a schedule in the modified permit requiring elimination of all overflow outfalls by December 31, 2025; several outfalls and the associated overflows have already been eliminated.
- 9. Final outfall re-routed to Wayne Co Dearborn Heights RTB.
- Long-term Control Program being implemented; controls include retention/treatment basins (6 online), CSO Screening/Disinfection Facilities (3 online), and 13 in-system storage dams in the collection system sewers (online) for temporary storing and subsequent transport of combined flow to the wastewater treatment plant; expansion of primary treatment capacity at the WWTP to 1700 MGD (online). To date, 14 CSOs have been eliminated, and construction of the Oakwood RTB has been completed. In addition to these 14 outfalls, 5 untreated Rouge River CSOs downstream of the turning basin are now controlled. An amended LTCP was submitted in late 2008 that proposed control projects and associated schedules for 3 untreated CSOs to the Old Channel of the Rouge River, and the 39 remaining untreated CSOs to the Detroit River. However, in 2009, due to its deteriorating financial condition, Detroit terminated construction of the Upper Rouge CSO Capture Tunnel (URT). A financial capability assessment (FCA) was submitted and approved by the Department. The alternative LTCP was included in the 2011 permit modification. Another FCA was submitted by Detroit in 2012 as required by the Permit. The FCA again documented that costs associated with continued implementation of the CSO correction program were a high burden to the City of Detroit residents. Reflecting the 2012 FCA and updated costs for effectively operating the WWTP and other facilities, and taking into account opportunities to use Green Infrastructure and apply adaptive management, the permit again revised the LTCP. Remaining high-priority outfalls are due corrected by 2037. Note that the adaptive approach was acceptable to EPA because of the high level of treatment (95%) by 2019 upon completion of disinfection of all excess flow at the WWTP.
- 11. Long-term Control Program complete; controls included both sewer separation and construction of a retention treatment basin (RTB) and tunnel.
- 12. Presumptive basin construction complete. An "In-Stream Total Residual Chlorine (TRC) Effluent Plume Evaluation" is required by the permit (October 1, 2018) and shall identify the location and size of the TRC effluent plume during and after CSO discharge events and identify the maximum TRC concentrations in-stream at various downstream locations.
- 13. Long-term Control Program being implemented; controls include 30-MG Market Ave. Retention Treatment Basin in conjunction with sewer separation construction; permittee has completed sewer separation projects; permit is in the process of being revised to include a schedule for a system project performance certification.
- ^{14.} Outfall 011 scheduled to be eliminated by 12/30/22.
- 15. Long-term Control Program considered complete (an existing retention/treatment basin); permittee submitted 2008 report characterizing discharges from existing retention/treatment basin based upon the type of sewer collection system (i.e., separate or combined) leading to this CSO treatment facility adjacent to the municipal wastewater treatment plant. Facility is implementing revisions to disinfection feed system and conducting visual assessments of CSO discharges to evaluate screening effectiveness.
- 16. Long-term Control Program (sewer separation project) being implemented; separation construction is to be conducted in 6 phases; Phases I, II, III and IV have been completed; permit schedule requires completion of construction of sewer separation phases and elimination of overflows by 2019.
- 17. Long-term Control Program (sewer separation project) being implemented; permit requires elimination of overflows from Outfall 018 by Dec. 31, 2016.
- 18. Long-term Control Program being implemented; permit requires elimination of discharges from the one remaining outfall by Jan. 1, 2020. Facility is one construction project away from elimination of the last CSO.
- 19. Long-term Control Program being implemented; existing retention/treatment basin was upgraded in mid-1990s; reissued permit required an "Instream Dissolved Oxygen Study" to determine whether discharges from the facility cause violations of water quality standards and if additional corrections might be necessary; there are no uncontrolled (i.e., untreated) CSO outfalls associated with this permittee/program.
- 20. Long-term Control Program has been implemented; controls included partial sewer separation & in-system storage tunnel in conjunction w/existing retention/treatment basin; construction phase of the project is complete and all discharges have been re-directed to the storage tunnel; and the permittee has certified the project, there are no remaining "uncontrolled" (i.e., untreated) CSO outfalls associated with this permittee/program.
- ^{21.} Separation and basin construction complete; sewer lining and manhole rehabilitation planned.
- 22. Long-term Control Program being implemented; two existing clariflers with disinfection and dechlorination; additional work is being conducted (infiltration/inflow reduction) to increase transport capacity to the wastewater treatment plant; permit requires submittal of Evaluation Study to confirm whether adequate treatment is provided.
- ^{23.} RTB construction complete.

| Table A- 17. Michigan LTCP Status | | | | | | | | | | | | |
|-----------------------------------|---------------------|------------------------|---|--|---|--|--|--|--|--|--|--|
| r of | | | un SSO | | LTCP or Alternative CSO Control Plan | | | | | | | |
| Name of Municipal Operator CSS | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) | Description of Alternative C Control Plan | CSO Control Plan (LTCP or Alternative CSO Control Plan) Submitted (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approved (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approval Date | Projected Date for Full Implementation of LTCP or Alternative CSO Control Plan ¹ | CSO Control Plan (LTCP or Alternative CSO Control Plan) Milestones | | | |

- 24. Long-term Control Program has been completed; permit & program required construction project to upgrade the George W. Kuhn (formerly "12 Towns") Retention Treatment Facility to ensure that facility provides adequate presumptive treatment of discharges; upgrades included capacity/volume increase and disinfection improvements; construction of facility upgrades was completed on Dec. 22, 2005; presumptive basin; there are no "uncontrolled" (i.e., untreated) CSO outfalls associated with this permittee/program.
- 25. Long-term Control Program (sewer separation project) being implemented; Director's Final Order (issued 2/19/98) & permit include schedule requiring elimination of all overflow outfalls by Dec. 31, 2012. The City requested a 4-year schedule extension in April 2007, due to economic hardship. The Department approved the City's request and issued a schedule in the modified permit requiring elimination of all overflow outfalls by December 31, 2016; several outfalls and the associated overflows have already been eliminated through sewer separation construction.
- 26. Long-term Control Program being implemented. The reissued permit will require CSO correction that may include a regional project with DWSD, with completion by 2025.
- 27. Long-term Control Program has been implemented; the program included a presumptively sized retention/treatment basin to provide adequate treatment of all combined sewer overflows (the facility went "on-line" and began treating overflows in 1999); remaining corrective projects have been completed and the project has been certified. The permit required "Total Residual Chlorine Mixing Zone/Plume Definition Study" has been submitted and is currently under review by the Department. The report evaluates whether or not the Total Residual Chlorine (TRC) discharges from the RTB cause violations of water quality standards.
- 28. Long-term Control Program complete; existing retention/treatment basin provides adequate treatment to meet Water Quality Standards at times of discharge.
- 29. Long-term Control Program being implemented; upgrades for two of the "RTBs" (Weiss St. RTB & 14th St. RTB) in order to provide for adequate treatment of all overflows has been completed; in accordance with the permit & approved program, permittee is re-conducting a Retention/Treatment Basin Evaluation Studies for the "East Side" system and "West Side" system to determine whether these facilities provide adequate treatment and whether facility upgrade will be required; the original studies were not approvable.
- ³⁰ Long-term Control Program (sewer separation project) being implemented; approved program with phased construction requires elimination of all discharges by Dec. 31, 2018.
- ³¹ Long-term Control Program currently considered complete (existing retention/treatment facility); reissued permit requires a Water Quality Study (due October 1, 2015) for a determination of whether the facility provides adequate treatment of all overflows; Long-term Control Program for facility upgrade and provisions for adequate treatment may be required in the future. The NPDES permit also requires the permittee to submit a Hydraulic Capacity Study for the Pine St PS. The study will be used to determine if any improvements can be made to eliminate CSO discharges from the Pine St PS.
- 32. Long-term Control Program approved; program requires elimination of overflows through reduction of flows (via sewer rehabilitation, infiltration/inflow removal, etc.) and transport of all flows to the wastewater treatment plant on or before April 30, 2016, the permittee shall submit a plan and schedule for implementation of Corrective Measures. On or before November 30, 2017, the permittee shall complete construction/implementation of the collection system corrective measures. The construction for the in-line storage tanks shall be completed by November 30, 2020. A Project Performance Certification (PCC) will follow.
- 33. Long-term Control Program (sewer separation project) was agreed to in February 1995 and modified in June 1996 and includes sewer separation to eliminate discharges. A number of separation projects have been completed to date, resulting in elimination of all outfalls. Permit is in the process of being revised to include a schedule for a system project performance certification.
- 34. Long-term Control Program revised in reissued permit construction of retention/treatment basin is complete & facility is "on-line" and the Department agrees that the RTB protects public health, eliminates raw sewage, protects the physical characteristics standard, and does not impact biological communities. An evaluation of the RTB discharges on the dissolved oxygen standard has been submitted and is under Department review. Outfalls M18 & M19 have been eliminated and certified by December 2005 (flow has been directed to the existing RTB). The permit requires control of one outfall by October 2012. The reissued permit will require CSO correction that may include a regional project with DWSD, with completion by 2025.
- 35. Long-term Control Program revised in reissued permit; construction of retention/treatment basin is complete & facility is "on-line" and the Department agrees that the RTB protects public health, eliminates raw sewage, protects the physical characteristics standard, and does not impact biological communities. An evaluation of the RTB discharges on the dissolved oxygen standard has been submitted and is under Department review. Outfalls M18 & M19 have been eliminated and certified by December 2005 (flow has been directed to the existing RTB). The permit requires control of one outfall by October 2012. Upcoming permit reissuance will likely include a schedule extension due to financial considerations.
- 36. Long-term Control Program revised in reissued permit, the program will address the two remaining "uncontrolled" (i.e., untreated) CSO outfalls; permit requires completion of construction by July 1, 2015 of an approved program for facilities to meet criteria for elimination of raw sewage discharges & protection of public health, and to ensure compliance with water quality standards; the Department agreed to a revised correction schedule for control of the remaining untreated outfalls based on the City of Inkster's financial demonstration.

| Table A- 17. M | Table A- 17. Michigan LTCP Status | | | | | | | | | | | | |
|-----------------------------------|-----------------------------------|------------------------|---|--|---|--|--|---|--|--|--|--|--|
| r of | | | an SSO | | LTCP | or Alternative CSO Cor | ntrol Plan | | | | | | |
| Name of Municipal Operator CSS | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) | Description of Alternative C Control Plan | CSO Control Plan (LTCP or Alternative CSO Control Plan) Submitted (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approved (V/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approval Date | Projected Date for Full Implementation of LTCP or Alternative CSO Control Plan ¹ | CSO Control Plan (LTCP or Alternative CSO Control Plan) Milestones | | | | |

^{37.} Long-term Control Program revised in reissued permit, the program will address the two remaining "uncontrolled" (i.e., untreated) CSO outfalls; permit requires completion of construction by July 1, 2015 of an approved program for facilities to meet criteria for elimination of raw sewage discharges & protection of public health, and to ensure compliance with water quality standards; the Department agreed to a revised correction schedule for control of the remaining untreated outfalls based on the City of Inkster's financial demonstration. The reissued permit will require CSO correction that may include a regional project with DWSD, with completion by 2025.

| Table A- 18. Michigan Pos | t Construc | tion Co | mplian | e Monit | toring Program Status |
|--------------------------------------|---------------------|---|---|---|---|
| Name of Municipal Operator of CSS | NPDES Permit Number | Post- Construction Compliance Monitoring Plan Required (Y/N) | Post-Construction Compliance Monitoring Plan Submitted (Y/N) | Post- Construction Compliance Monitoring Plan Approved (Y/N) | Post-Construction Compliance Monitoring Plan Approval Date |
| Adrian WWTP | MI0022152 | N | N | N | N/A |
| Bay City WWTP | MI0022284 | N | N | N | Total Residual Chlorine Plume Evaluation Work Plan due 2016 |
| Birmingham | MI0025534 | Υ | Υ | Υ | All 4 parts of the post construction monitoring approved in 2015 |
| Bloomfield Village CSO | MI0048046 | Υ | Υ | Υ | 3 of 4 parts of the post construction monitoring approved in 2000 |
| Chapaton RTB | MI10025585 | Υ | Υ | Υ | 3 of 4 parts of the post construction monitoring approved in 2007 |
| Croswell WWTP | MI10021083 | N | N | N | N/A |
| Crystal Falls CSO | MI0048879 | Ν | N | N | N/A |
| Dearborn CSO | MI0025542 | Υ | Υ | Υ | 2 of 4 parts of the post construction monitoring approved in 2011 |
| Dearborn Heights CSO | MI0051811 | Ν | N | N | N/A |
| Detroit WWTP | MI0022802 | Υ | Υ | Υ | July 1996, last updated March 2015 |
| Dundee WWTP | MI0020401 | N | N | N | N/A |
| East Lansing WWTP | MI0022853 | Υ | Υ | Υ | 1/10/2010 |
| Essexville WWTP | Mi0022918 | N | N | N | Total Residual Chlorine Plume Evaluation Work Plan due 2016 |
| Gladwin WWTP | MI0023001 | N | N | N | N/A |
| Grand Rapids WWTP | MI0026069 | N | N | N | N/A |
| Grosse Pointe Farms CSO | MI0026077 | N | N | N | N/A |
| Grosse Pointe Shores CSO | MI0026085 | N | N | N | N/A |
| Inkster/Dearborn Heights CSO | MI0051837 | Υ | Υ | Υ | 5/1/2007 |
| Iron Mountain Kingsford WWTP | MI0023205 | Υ | Υ | Υ | 1999 |
| Lansing WWTP | MI0023400 | N | N | N | N/A |

| Table A- 18. Michigan Po | st-Constru | ction Co | mplian | ce Moni | toring Program Status |
|--|---------------------|---|---|--|---|
| Name of Municipal Operator of CSS | NPDES Permit Number | Post- Construction Compliance Monitoring Plan Required (Y/N) | Post-Construction Compliance Monitoring Plan Submitted (Y/N) | Post- Construction Compliance Monitoring Plan Approved (YN) | Post-Construction Compliance Monitoring Plan Approval Date |
| Manistee WWTP | MI0020362 | N | N | N | N/A |
| Manistique WWTP | MI0023515 | N | N | N | N/A |
| Marysville WWTP | MI0020656 | N | N | N | N/A |
| Menominee WWTP | MI0025631 | N | N | N | N/A |
| Milk River CSORTB | MI0025500 | Υ | Υ | Υ | 2006 |
| Mt. Clemens WWTP | MI0023647 | N | N | N | N/A |
| Niles WWTP | MI0023701 | N | N | N | N/A |
| North Houghton Co W&SACSO | MI0043982 | N | N | N | N/A |
| Norway WWTP | MI0020214 | Υ | Υ | Υ | Unavailable |
| Oakland Co-ACACIA Park CSO | MI0037427 | Υ | Υ | Υ | All 4 parts of the post construction monitoring approved in 2015 |
| Oakland Co-SOCSDS 12 Towns RTF (George W. Kuhn CSO RTB) | MI0026115 | N | N | N | Project Performance Certification approved Jan 2006 |
| Port Huron WWTP | MI0023833 | N | N | N | N/A |
| Redford TWP CSO | MI0051829 | Υ | Υ | Υ | 5/1/2007 |
| River Rouge CSO | MI0028819 | N | N | N | TBD |
| SaginawTWP WWTP | MI0023973 | Υ | Υ | Υ | Due October 2018 |
| SaginawWWTP | MI0025577 | Υ | Υ | Υ | 2008, Need to re-conduct evaluations and another plan to be submitted |
| Sault St. Marie WWTP | MI0024058 | N | N | N | N/A |
| South Macomb SD Martin RTB | MI0025453 | Υ | Υ | Υ | 2006 |
| Southgate/Wyandotte CSORTF | MI0036072 | Υ | Υ | Υ | 3 of 4 parts of the post construction monitoring approved in 2007 |
| St. Clair WWTP | MI0020591 | N | N | N | N/A |
| St. Joseph CSO | MI0026735 | N | N | N | N/A |
| Wakefield WWSL | MI0021440 | N | N | N | N/A |
| Wayne Co/Dearborn Heights CSO | MI0051489 | Υ | Υ | Υ | 5/1/2007 |
| Wayne Co/Inkster CSO | MI0051471 | Υ | Υ | Y | 5/1/2007 |
| Wayne Co/Inkster/DRBRN HTS CSO | MI0051462 | Υ | Υ | Υ | 5/1/2007 |
| Wayne Co/RDFRD/Livonia CSO | MI0051535 | Υ | Υ | Υ | 5/1/2007 |
| Key: Y = Yes; N = No; N/A = Not Appl | licable; TBD = T | o Be Deterr | nined | | |

| Table A- 19. Mich | igan Pre- a | and Post | -Construc | tion CSC | Status | | | | |
|--------------------------------------|---------------------|--|------------|--|--|---|---|---|-----------|
| Name of Municipal Operator of CSS | NPDES Permit Number | Average Annual Number of CSO Events Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) | | Average Annual Historic Volume of CSOs Before | Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | Average Annual Number of CSO Events After Implementation of CSO | Control Plan (LTCP or Alternative CSO Control Plan) | Average Annual Volume of CSOs Anticipated After Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | |
| Nar CS\$ | NPI | Treated | Untreated | Treated | Untreated | Treated | Untreated | Treated | Untreated |
| Adrian WWTP | MI0022152 | 0 | Footnote 1 | 0 NDR | | 0 | 0 | 0 | 0 |
| Bay City WWTP | MI0022284 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Birmingham | MI0025534 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Bloomfield Village CSO | MI0048046 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Chapaton RTB | MI10025585 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Croswell WWTP | MI10021083 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Crystal Falls CSO | MI0048879 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Dearborn CSO | MI0025542 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Dearborn Heights CSO | MI0051811 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Detroit WWTP | MI0022802 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 2 | 0 |
| Dundee WWTP | MI0020401 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| East Lansing WWTP | MI0022853 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Essexville WWTP | Mi0022918 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Gladwin WWTP | MI0023001 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Grand Rapids WWTP | MI0026069 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Grosse Pointe Farms CSO | MI0026077 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Grosse Pointe Shores CSO | MI0026085 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Inkster/Dearborn Heights CSO | MI0051837 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Iron Mountain Kingsford WWTP | MI0023205 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Lansing WWTP | MI0023400 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Manistee WWTP | MI0020362 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Manistique WWTP | MI0023515 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Marysville WWTP | MI0020656 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Menominee WWTP | MI0025631 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Milk River CSORTB | MI0025500 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Mt. Clemens WWTP | MI0023647 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Niles WWTP | MI0023701 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| North Houghton Co W&SACSO | MI0043982 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Norway WWTP | MI0020214 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |

| Table A- 19. Mich | igan Pre- a | and Post | -Construc | tion CSO | Status | | | | |
|---|---------------------|--|------------|--|-----------|---|-----------|--|-----------|
| Name of Municipal Operator of CSS | NPDES Permit Number | Average Annual Number of CSO Events Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) | | Average Annual Historic Volume of CSOs Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | | Average Annual Number of CSO Events After Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) | | Average Annual Volume of CSOs Anticipated After Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | |
| Nar | NP | Treated | Untreated | Treated | Untreated | Treated | Untreated | Treated | Untreated |
| Oakland Co-ACACIA Park CSO | MI0037427 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Oakland Co-SOCSDS 12 Towns RTF (George W. Kuhn CSO RTB) | MI0026115 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Port Huron WWTP | MI0023833 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | Footnote 3 | 0 |
| Redford TWP CSO | MI0051829 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| River Rouge CSO | MI0028819 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| SaginawTWP WWTP | MI0023973 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Saginaw WWTP | MI0025577 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Sault St. Marie WWTP | MI0024058 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | Footnote 3 | 0 |
| South Macomb SD Martin RTB | MI0025453 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Southgate/Wyandotte CSO RTF | MI0036072 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| St. Clair WWTP | MI0020591 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| St. Joseph CSO | MI0026735 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Wakefield WWSL | MI0021440 | 0 | Footnote 1 | 0 | NDA | 0 | 0 | 0 | 0 |
| Wayne Co/Dearborn Heights CSO | MI0051489 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Wayne Co/Inkster CSO | MI0051471 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Wayne Co/Inkster/DRBRN HTS CSO | MI0051462 | 0 | Footnote 1 | 0 | NDA | Footnote 2 | 0 | Footnote 3 | 0 |
| Wayne Co/RDFRD/ Livonia CSO | MI0051535 | 0 | Footnote 1 | 0 | NDA | NDA | 0 | Footnote 3 | 0 |

Key: NDR = No Data Reported; NDA = No Data Available

^{1.} Using data from 2005-2013, the average annual statewide total volume of treated discharges of combined sewage from existing RTBs was 16,882 MG/year. In 2019, when Detroit provides disinfection for discharges from outfall 050A, that average (using 2005-2013 data) will increase to 28,833 MG/year. For reference, during the time period 2005-2013, the average annual discharge of untreated CSOs was 16,348 MG/year (including discharges from Detroit outfall 050A).

^{2.} RTBs designed under the Presumptive definition in Michigan are expected to discharge adequately treated combined sewage ~4 times per year or less. Those designed under the Demonstration definition are expected to discharge adequately treated combined sewage ~4-10 times per year.

^{3.} Generally, a 0.2" rainfall event might trigger a CSO. Using this estimate, and an average number of 0.2" or greater events occurring approximately 30-50 times per year, a rough estimate of the number of events per outfall would be ~30-50 times per year. In 1988, Michigan had 613 untreated CSOs, in 2013 there were 136 untreated CSOs remaining.

| Table A- 20. Michigan 2014 CSO | Table A- 20. Michigan 2014 CSO Status | | | | | | | | | | | |
|--|---------------------------------------|-------------------|-----------------|---|------------------------|--|--|--|--|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | COCAMILIA | Fivents in 2014 | , G C C C C C C C C C C C C C C C C C C | Volume in 2014 (MG/yr) | | | | | | | |
| Nan of C | IdN | Treated Untreated | | Treated | Untreated | | | | | | | |
| Adrian WWTP | MI0022152 | 0 | 0 | 0 | 0 | | | | | | | |
| Bay City WWTP | MI0022284 | 2 | 0 | 133.1 | 0 | | | | | | | |
| Birmingham | MI0025534 | 2 | 0 | 10.5 | 0 | | | | | | | |
| Bloomfield Village CSO | MI0048046 | 2 | 0 | 14.5 | 0 | | | | | | | |
| Chapaton RTB | MI10025585 | 8 | 0 | 304.6 | 0 | | | | | | | |
| Croswell WWTP | MI10021083 | 0 | 0 | 0 | 0 | | | | | | | |
| Crystal Falls CSO | MI0048879 | 0 | 0 | 0 | 0 | | | | | | | |
| Dearborn CSO | MI0025542 | 8 | 48 | 344.4 | 698.4 | | | | | | | |
| Dearborn Heights CSO | MI0051811 | 0 | 0 | 0 | 0 | | | | | | | |
| Detroit WWTP | MI0022802 | 27 | 33 | 18829.7 | 6957.3 | | | | | | | |
| Dundee WWTP | MI0020401 | 0 | 0 | 0 | 0 | | | | | | | |
| East Lansing WWTP | MI0022853 | 2 | 0 | 2.9 | 0 | | | | | | | |
| Essexville WWTP | Mi0022918 | 1 | 0 | 4.8 | 0 | | | | | | | |
| Gladwin WWTP | MI0023001 | 0 | 0 | 0 | 0 | | | | | | | |
| Grand Rapids WWTP | MI0026069 | 0 | 0 | 0 | 0 | | | | | | | |
| Grosse Pointe Farms CSO | MI0026077 | 0 | 0 | 0 | 0 | | | | | | | |
| Grosse Pointe Shores CSO | MI0026085 | 0 | 0 | 0 | 0 | | | | | | | |
| Inkster/Dearborn Heights CSO | MI0051837 | 0 | 0 | 0 | 0 | | | | | | | |
| Iron Mountain Kingsford WWTP | MI0023205 | 6 | 0 | 4.2 | 0 | | | | | | | |
| Lansing WWTP | MI0023400 | 0 | 45 | 0 | 521.9 | | | | | | | |
| Manistee WWTP | MI0020362 | 0 | 9 | 0 | 46.8 | | | | | | | |
| Manistique WWTP | MI0023515 | 0 | 3 | 0 | 0.3 | | | | | | | |
| Marysville WWTP | MI0020656 | 0 | 0 | 0 | 0 | | | | | | | |
| Menominee WWTP | MI0025631 | 0 | 0 | 0 | 0 | | | | | | | |
| Milk River CSORTB | MI0025500 | 17 | 0 | 525.5 | 0 | | | | | | | |
| Mt. Clemens WWTP | MI0023647 | 3 | 0 | 45.3 | 0 | | | | | | | |
| Niles WWTP | MI0023701 | 0 | 0 | 0 | 0 | | | | | | | |
| North Houghton Co W&SACSO | MI0043982 | 6 | 0 | 180.1 | 0 | | | | | | | |
| Norway WWTP | MI0020214 | 0 | 0 | 0 | 0 | | | | | | | |
| Oakland Co-ACACIA Park CSO | MI0037427 | 5 | 0 | 22.9 | 0 | | | | | | | |
| Oakland Co-SOCSDS 12 Towns RTF (George W. Kuhn CSO RTB) | MI0026115 | 8 | 0 | 2513.2 | 0 | | | | | | | |
| Port Huron WWTP | MI0023833 | 0 | 21 | 0 | 9.5 | | | | | | | |
| Redford TWP CSO | MI0051829 | 0 | 15 | 0 | 14.1 | | | | | | | |
| River Rouge CSO | MI0028819 | 7 | 0 | 39.7 | 0 | | | | | | | |

| Table A- 20. Michigan 2014 CSO | Status | | | | | |
|--------------------------------------|---------------------|------------------|----------------|--|-----------|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | Tokal Minmbac CO | Events in 2014 | Total CSO Overflow Volume in 2014 (MG/yr) | | |
| Nar of C | N | Treated | Untreated | Treated | Untreated | |
| Saginaw TWP WWTP | MI0023973 | 4 | 0 | 89.3 | 0 | |
| SaginawWWTP | MI0025577 | 4 | 0 | 614.3 | 0 | |
| Sault St. Marie WWTP | MI0024058 | 0 | 1 | 0 | 0.4 | |
| South Macomb SD Martin RTB | MI0025453 | 6 | 0 | 290.7 | 0 | |
| Southgate/Wyandotte CSO RTF | MI0036072 | 20 | 9 | 1138.1 | 310.8 | |
| St. Clair WWTP | MI0020591 | 0 | 0 | 0 | 0 | |
| St. Joseph CSO | MI0026735 | 0 | 14 | 0 | 2.1 | |
| Wakefield WWSL | MI0021440 | 0 | 0 | 0 | 0 | |
| Wayne Co/Dearborn Heights CSO | MI0051489 | 7 | 14 | 49.8 | 26.4 | |
| Wayne Co/Inkster CSO | MI0051471 | 10 | 22 | 61.5 | 97.4 | |
| Wayne Co/Inkster/DRBRN HTS CSO | MI0051462 | 0 | 27 | 0 | 70.9 | |
| Wayne Co/RDFRD/ Livonia CSO | MI0051535 | 5 | 12 | 11 | 57.8 | |

| Table | e A- 21. India | na CSO Com | munity Summ | ary Inform | nation | | | |
|------------|--------------------------------------|---------------------|-------------------------------------|---------------------------------------|--|--------------------------|---------------------------|----------------------------------|
| EPA Region | Name of Municipal Operator of CSS | NPDES Permit Number | Name of Great Lake Discharged to | Direct Discharge into Great Lakes? | Name of Water Body Directly Discharged into | Population Served by CSS | Population Served by WWTP | Design Capacity of WMTP (MGD) |
| 5 | Angola | IN0021296 | Lake Michigan | N | UNT Pigeon Creek | NDA | 7,922 | 1.7 |
| 5 | Auburn | IN0020672 | Lake Erie | N | Cedar Creek | NDA | 13,086 | 4.5 |
| 5 | Berne | IN0021369 | Lake Erie | N | Habegger Ditch, Spruger Ditch | NDA | 3,999 | 0.673 |
| 5 | Butler | IN0022462 | Lake Erie | N | Big Run | NDA | 2,700 | 2 |
| 5 | Chesterton | IN0022578 | Lake Michigan | N | East Arm Little Calument River | NDA | 13,199 | 4.6 |
| 5 | Crown Point | IN0025763 | Lake Michigan | N | Main Beaver Dam Ditch | NDA | 27,317 | 5.2 |
| 5 | Decatur | IN0039314 | Lake Erie | N | St. Mary's River | NDA | 9,300 | 3.25 |
| 5 | East Chicago | IN0022829 | Lake Michigan | N | Indiana Harbor Canal, Grand Calument River | NDA | 32,000 | 15 |
| 5 | Goshen | IN0025755 | Lake Michigan | N | Elkhart River | NDA | 30,000 | 5 |
| 5 | Kendallville | IN0020656 | Lake Michigan | N | UNT Henderson Lake | NDA | 9,616 | 2.68 |
| 5 | Ligonier | IN0023582 | Lake Michigan | N | Elkhart River | NDA | 3,600 | 1.5 |
| 5 | Nappanee | IN0021466 | Lake Michigan | N | Berlin Court Ditch, Armey Ditch | NDA | 6,648 | 1.9 |
| 5 | New Haven (Satellite Community | IN0020346 | Lake Erie | N | Martin Ditch, UNT Maumee River | NDA | 12,406 | No WWTP |
| 5 | Wakarusa | IN0024775 | Lake Michigan | N | Werntz Ditch | NDA | 1,700 | 0.5 |
| 5 | Elkhart | IN0025674 | Lake Michigan | N | Elkhart River, St. Joseph River, Christina Creek | NDA | 37,347 | 20 |
| 5 | Fort Wayne | IN0032191 | Lake Erie | N | Maumee River, St Mary's River, Spy Run Creek, St. Joseph River, UNT | NDA | 252,339 | 60 |
| 5 | Gary | IN0022977 | Lake Michigan | N | Grand Calumet River, Little Calumet River | NDA | 99,961 | 60 |
| 5 | Hammond | IN0023060 | Lake Michigan | N | Grand Calumet River, East Arm Little Calumet River | NDA | 83,048 | 37.8 |
| 5 | Mishawaka | IN0025640 | Lake Michigan | N | St. Joseph River, Eller Ditch | NDA | 48,252 | 20 |
| 5 | Albion | IN0022144 | Lake Michigan | N | None | NDA | NDA | NDA |
| 5 | Avilla | IN0020664 | Lake Erie | N | None | NDA | NDA | NDA |
| 5 | Lagrange | IN0020478 | Lake Michigan | N | None | NDA | NDA | NDA |
| 5 | Michigan City | IN0023752 | Lake Michigan | N | Trail Creek | NDA | 11,474 | 12 |

| Table | e A- 21. India | ına CSO Com | munity Summ | ary Inform | ation | | | |
|------------|--------------------------------------|---------------------|-------------------------------------|---------------------------------------|--|--------------------------|---------------------------|----------------------------------|
| EPA Region | Name of Municipal Operator of CSS | NPDES Permit Number | Name of Great Lake Discharged to | Direct Discharge into Great Lakes? | Name of Water Body Directly Discharged into | Population Served by CSS | Population Served by WWTP | Design Capacity of WWTP (MGD) |
| 5 | Milford | IN0038318 | Lake Michigan | N | None | NDA | NDA | NDA |
| 5 | Valparaiso | IN0024660 | Lake Michigan | N | Salt Creek | NDA | 31,360 | 8 |
| 5 | Waterloo | IN0020711 | Lake Erie | N | Cedar Creek | NDA | 2,200 | 0.369 |
| 5 | South Bend | IN0024520 | Lake Michigan | N | St. Joseph River | NDA | 101,163 | 48 |
| Key: N | I = No; NDA = No D | ata Available | | | | | | |

| Table A- 22. India | 1101 5101 | | | | | LTC | or Alternative CSO | Control Plan | |
|--------------------------------------|---------------------|------------------------|---|--|-----------------|----------------|--------------------|---|------------|
| or of | | | lan | cso | | LICE | or Alternative CSO | Control Plan | |
| Name of Municipal Operator of CSS | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) | Description of Alternative CSO Control Plan | Submitted (Y/N) | Approved (Y/N) | Approval Date | Projected Date for Full Implementation | Milestones |
| Angola | IN0021296 | Υ | N | NDA | Υ | Υ | 7/1/2007 | Completed | |
| Auburn | IN0020672 | Υ | N | NDA | Υ | Υ | 9/1/2007 | 9/30/2027 | |
| Berne | IN0021369 | Υ | N | NDA | Υ | Y | 2/27/2006 | 12/31/2024 | |
| Butler ¹ | IN0022462 | Υ | N | NDA | Υ | Υ | 4/1/2007 | Completed | |
| Chesterton | IN0022578 | Υ | N | NDA | Υ | Υ | 11/1/2006 | Completed | |
| Crown Point | IN0025763 | Υ | N | NDA | Υ | Υ | 2/1/2008 | 9/30/2018 | |
| Decatur ¹ | IN0039314 | Υ | N | NDA | Υ | Υ | 6/1/2007 | Completed | |
| East Chicago | IN0022829 | Υ | N | NDA | Υ | Υ | 12/30/2011 | 12/31/2032 | |
| Goshen | IN0025755 | Υ | N | NDA | Υ | Υ | 6/1/2006 | Completed | |
| Kendallville | IN0020656 | N | Υ | Other | Υ | Υ | 7/1/2006 | Completed | |
| Ligonier | IN0023582 | Υ | N | NDA | Υ | Υ | 2/1/2008 | 6/30/2016 | |
| Nappanee | IN0021466 | Υ | N | NDA | Υ | Υ | 1/1/2011 | 12/31/2017 | |
| New Haven (Satellite Community | IN0020346 | Υ | N | NDA | Υ | Υ | 4/1/2007 | 12/31/2026 | |
| Wakarusa | IN0024775 | Υ | N | NDA | Υ | Υ | 1/4/2008 | 12/31/2017 | |
| Elkhart | IN0025674 | Υ | N | NDA | Υ | Y | 5/1/2012 | 3/31/2029 | |
| Fort Wayne | IN0032191 | Υ | N | NDA | Υ | Υ | 4/1/2008 | 12/31/2025 | |
| Gary | IN0022977 | Υ | N | NDA | N | N | NDA | NDA | |
| Hammond | IN0023060 | Υ | N | NDA | Υ | N | NDA | NDA | |
| Mishawaka | IN0025640 | Υ | N | NDA | Υ | Υ | 5/23/2014 | 12/31/2031 | |
| Albion | IN0022144 | Υ | N | NDA | Υ | Υ | 8/1/2004 | Completed | |
| Avilla | IN0020664 | Υ | N | NDA | Υ | Υ | 9/9/2010 | Completed | |
| Lagrange | IN0020478 | Υ | N | NDA | Υ | Υ | 4/1/2002 | Completed | |
| Michigan City | IN0023752 | Υ | N | NDA | Υ | Υ | 1/1/2009 | Completed | |
| Milford | IN0038318 | Υ | N | NDA | Υ | Υ | 2/1/2006 | Completed | |
| Valparaiso | IN0024660 | Υ | N | NDA | Υ | Υ | 11/29/2006 | Completed | |
| Waterloo | IN0020711 | Υ | N | NDA | Υ | Υ | 2/1/2007 | Completed | |
| South Bend | IN0024520 | Υ | N | NDA | Υ | Y | 5/2/2012 | 12/31/2031 | |

Key: Y = Yes; N = No; N/A = Not Applicable; NDA = No Data Available

¹ The original LTCP implementation is complete, however the community is currently in or developing a CSO Compliance Plan for not meeting the LTCP level of control.

| Table A- 23. Indiana Post-Co | onstruction Com | pliance Monito | oring Program S | Status | |
|---|---------------------|--|---|--|---|
| Name of Municipal Operator of CSS | NPDES Permit Number | Post-Construction Compliance Monitoring Plan Required (Y/N) | Post-Construction Compliance Monitoring Plan Submitted (Y/N) | Post-Construction Compliance Monitoring Plan Approved (Y/N) | Post-Construction Compliance Monitoring Plan Approval Date |
| Angola | IN0021296 | Υ | Y | Υ | 7/1/2007 |
| Auburn | IN0020672 | Υ | Υ | Υ | 9/1/2007 |
| Berne | IN0021369 | Υ | Υ | Υ | 2/27/2006 |
| Butler | IN0022462 | Υ | Υ | Υ | 4/1/2007 |
| Chesterton | IN0022578 | Υ | Υ | Υ | 11/1/2006 |
| Crown Point | IN0025763 | Υ | Υ | Υ | 2/1/2008 |
| Decatur | IN0039314 | Υ | Υ | Υ | 6/1/2007 |
| East Chicago | IN0022829 | Υ | Υ | Υ | 12/30/2011 |
| Goshen | IN0025755 | Υ | Υ | Υ | 6/1/2006 |
| Kendallville | IN0020656 | Υ | Υ | Υ | 7/1/2006 |
| Ligonier | IN0023582 | Υ | Υ | Υ | 2/1/2008 |
| Nappanee | IN0021466 | Υ | Υ | Υ | 1/1/2011 |
| New Haven (Satellite Community) | IN0020346 | Υ | Υ | Υ | 4/1/2007 |
| Wakarusa | IN0024775 | Υ | Y | Y | 1/4/2008 |
| Elkhart | IN0025674 | Υ | Y | Y | 5/1/2012 |
| Fort Wayne | IN0032191 | Υ | Υ | Υ | 4/1/2008 |
| Gary | IN0022977 | Υ | N | N | N/A |
| Hammond | IN0023060 | Υ | N | N | N/A |
| Mishawaka | IN0025640 | Υ | Υ | Υ | 5/23/2014 |
| Albion | IN0022144 | Υ | Υ | Y | 8/1/2004 |
| Avilla | IN0020664 | Υ | Υ | Υ | 9/9/2010 |
| Lagrange | IN0020478 | Υ | Υ | Υ | 4/1/2002 |
| Michigan City | IN0023752 | Υ | Y | Υ | 1/1/2009 |
| Milford | IN0038318 | Υ | Υ | Υ | 2/1/2006 |
| Valparaiso | IN0024660 | Υ | Y | Υ | 11/29/2006 |
| Waterloo | IN0020711 | Υ | Υ | Υ | 2/1/2007 |
| South Bend | IN0024520 | Υ | Y | Υ | 5/2/2012 |
| Key: Y = Yes; N = No; N/A = Not Applicate | ble | | | | |

| CSS | | 0 1 | | | Table A- 24. Indiana Pre- and Post-Construction CSO Status | | | | | | | | | | |
|------------------------------------|--|------------------------------|--|--|--|------------------------------|---|---|--|--|--|--|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | Average Annual Number of CSO | Events Before Implementation of CSO Control Plan (LTCP) or Alternative CSO Control Plan) | Average Annual Historic Volume of CSOs Before Implementation | of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | Average Annual Number of CSO | CSO Control Plan (LTCP or Alternative CSO Control Plan) | Average Annual Volume of CSOs Anticipated After Implementation | of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | | | | | | |
| Nam | NPD | Treated | Untreated | Treated | Untreated | Treated | Untreated | Treated | Untreated | | | | | | |
| Angola INC | 10021296 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Auburn INC | 10020672 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Berne INC | 10021369 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Butler INC | 10022462 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Chesterton INC | 10022578 | NDA | NDA | NDA | NDA | None | None | None | None | | | | | | |
| Crown Point INC | 10025763 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Decatur INC | 10039314 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| East Chicago INC | 10022829 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Goshen INC | 10025755 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Kendallville IN | 10020656 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Ligonier INC | 10023582 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Nappanee INC | 10021466 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| New Haven (Satellite Community) | 10020346 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Wakarusa ING | 10024775 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Elkhart INC | 10025674 | NDA | NDA | NDA | NDA | None | 9 | NDA | NDA | | | | | | |
| Fort Wayne INC | 10032191 | NDA | NDA | NDA | NDA | None | 4 | NDA | NDA | | | | | | |
| Gary | 10022977 | NDA | NDA | NDA | NDA | NDA | NDA | NDA | NDA | | | | | | |
| Hammond INC | 10023060 | NDA | NDA | NDA | NDA | NDA | NDA | NDA | NDA | | | | | | |
| Mishawaka ING | 10025640 | NDA | NDA | NDA | NDA | None | 4 | NDA | NDA | | | | | | |
| Albion INC | 10022144 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 | | | | | | |
| Avilla INC | 10020664 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 | | | | | | |
| Lagrange IN | 10020478 | NDA | NDA | NDA | NDA | 0 | 0 | 0 | 0 | | | | | | |
| Michigan City INC | 10023752 | NDA | NDA | NDA | NDA | Footnote 1 | Footnote 1 | Footnote 1 | Footnote 1 | | | | | | |
| Milford INC | 10038318 | NDA | NDA | NDA | NDA | None | None | None | None | | | | | | |
| Valparaiso INC | 10024660 | NDA | NDA | NDA | NDA | Footnote 1 Footnote 1 | | Footnote 1 | Footnote 1 | | | | | | |
| Waterloo ING | 10020711 | NDA | NDA | NDA | NDA | Footnote 1 Footnote 1 | | Footnote 1 | Footnote 1 | | | | | | |
| South Bend INC | 10024520 | NDA | NDA | NDA | NDA | None | 4 events | NDA | NDA | | | | | | |
| Key: NDA = No Data Available | le | | | | | | | | | | | | | | |
| 1. Treatment of 10-yr, 1-hr design | 1. Treatment of 10-yr, 1-hr design storm | | | | | | | | | | | | | | |

| Table A- 25. Indiana 2014 CSO Status | | | | | | | | | | |
|--------------------------------------|---------------------|---------|-----------------|---|-----------|--|--|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | | odal number CSO | Total CSO Overflow Volume in 2014 (MG/yr) | | | | | | |
| Nar Ope | NPI | Treated | Untreated | Treated | Untreated | | | | | |
| Angola | IN0021296 | NDA | NDA | 0 | 0.67 | | | | | |
| Auburn | IN0020672 | NDA | NDA | 0 | 0.2 | | | | | |
| Berne | IN0021369 | NDA | NDA | 0 | 129.29 | | | | | |
| Butler | IN0022462 | NDA | NDA | 2.2 | 13.42 | | | | | |
| Chesterton | IN0022578 | NDA | NDA | 0 | 1.27 | | | | | |
| Crown Point | IN0025763 | NDA | NDA | 0 | 41.15 | | | | | |
| Decatur | IN0039314 | NDA | NDA | 0 | 41.35 | | | | | |
| East Chicago | IN0022829 | NDA | NDA | 0 | 450.29 | | | | | |
| Goshen | IN0025755 | NDA | NDA | 2.8 | 1.3 | | | | | |
| Kendallville | IN0020656 | NDA | NDA | 0 | 0.94 | | | | | |
| Ligonier | IN0023582 | NDA | NDA | 0 | 0.53 | | | | | |
| Nappanee | IN0021466 | NDA | NDA | 0 | 64.92 | | | | | |
| New Haven (Satellite Community | IN0020346 | NDA | NDA | 0 | 3.09 | | | | | |
| Wakarusa | IN0024775 | NDA | NDA | 0 | 3.11 | | | | | |
| Elkhart | IN0025674 | NDA | NDA | 0 | 191.4 | | | | | |
| Fort Wayne | IN0032191 | NDA | NDA | 0 | 3,123.93 | | | | | |
| Gary | IN0022977 | NDA | NDA | 0 | 1,257.22 | | | | | |
| Hammond | IN0023060 | NDA | NDA | 0 | 2,355.03 | | | | | |
| Mishawaka | IN0025640 | NDA | NDA | 0 | 12.34 | | | | | |
| Albion | IN0022144 | 0 | 0 | 0 | 0 | | | | | |
| Avilla | IN0020664 | 0 | 0 | 0 | 0 | | | | | |
| Lagrange | IN0020478 | 0 | 0 | 0 | 0 | | | | | |
| Michigan City | IN0023752 | 0 | 0 | 0 | 0 | | | | | |
| Milford | IN0038318 | 0 | 0 | 0 | 0 | | | | | |
| Valparaiso | IN0024660 | 0 0 | | 0.78 | 0 | | | | | |
| Waterloo | IN0020711 | 0 | 0 | 14.37 0 | | | | | | |
| South Bend | IN0024520 | NDA | NDA | 0 | 409.6 | | | | | |
| Key: NDA = No Data Available | | | | | | | | | | |

| Tabl | e A- 26. Illinois CSO C | ommun | ity Summary I | nforma | tion | | | |
|------------|--------------------------------------|---------------------|----------------------------------|---------------------------------------|--|--------------------------|---------------------------|-------------------------------|
| EPA Region | Name of Municipal Operator of CSS | NPDES Permit Number | Name of Great Lake Discharged to | Direct Discharge into Great Lakes? | Name of Water Body Directly Discharged into | Population Served by CSS | Population Served by WWTP | Design Capacity of WWTP (MGD) |
| 5 | TARP1 | N/A | Lake Michigan | Υ | Lake Michigan | N/A | N/A | N/A |
| 5 | Brookfield CSO TARP | N/A | Lake Michigan | N | Salt Creek | NDA | NDA | 1200 |
| 5 | Chicago CSO TARP | N/A | Lake Michigan | N | *Chicago CSO - North Shore Channel, North Branch Chicago River, Little Calumet River, Calumet River, Chicago River, South Branch of Chicago River (SBCR), South Fork of SBCR, Chicago Sanitary and Ship Canal, Collateral Channel and Des Plaines River | NDA | NDA | 1200; 354; 333 |
| 5 | City of Blue Island CSO TARP | N/A | Lake Michigan | N | Cal-Sag Channel | NDA | NDA | 354 |
| 5 | City of Calumet City CSO TARP | N/A | Lake Michigan | N Little Calumet River | | NDA | NDA | 354 |
| 5 | City of Evanston CSO TARP | N/A | Lake Michigan | N | North Shore Channel | NDA | NDA | 333 |
| 5 | City of Harvey TARP | N/A | Lake Michigan | N | Little Calumet River | NDA | NDA | 354 |
| 5 | Des Plaines TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 |
| 5 | Dixmoor CSO TARP | N/A | Lake Michigan | N | Little Calumet River | NDA | NDA | 354 |
| 5 | Franklin Park CSO TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 |
| 5 | Golf CSO TARP | N/A | Lake Michigan | N | North Branch Chicago River | NDA | NDA | 333 |
| 5 | LaGrange Park CSO TARP | N/A | Lake Michigan | N | Salt Creek | NDA | NDA | 1200 |
| 5 | Lansing CSO TARP | N/A | Lake Michigan | N | Little Calumet River | NDA | NDA | 354 |
| 5 | Lincolnwood CSO TARP | N/A | Lake Michigan | N | North Shore Channel | NDA | NDA | 333 |
| 5 | MWRDGC Calumet TARP | N/A | Lake Michigan | N | Little Calumet River | NDA | NDA | 354 |
| 5 | MWRDGC Kirie TARP | N/A | Lake Michigan | N | Weller's Creek | NDA | NDA | 52 |
| 5 | MWRDGC Stickney TARP | N/A | Lake Michigan | N | Chicago Sanitary and Ship Canal | NDA | NDA | 1200 |
| 5 | MWRDGC Northside TARP | N/A | Lake Michigan | N | North Shore Channel | NDA | NDA | 333 |
| 5 | Park Ridge CSO TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 |
| 5 | Phoenix CSO TARP | N/A | Lake Michigan | N | Little Calumet River | NDA | NDA | 354 |
| 5 | Posen CSO TARP | N/A | Lake Michigan | N | Cal-Sag Channel | NDA | NDA | 354 |
| 5 | Riverside CSO TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 |
| 5 | Skokie CSO TARP | N/A | Lake Michigan | N | North Shore Channel | NDA | NDA | 333 |
| 5 | Summit CSO TARP | N/A | Lake Michigan | N | Chicago Sanitary and Ship Canal | NDA | NDA | 1200 |

| Tabl | Table A- 26. Illinois CSO Community Summary Information | | | | | | | | | | |
|------------|---|---------------------|----------------------------------|---------------------------------------|--|--------------------------|---------------------------|-------------------------------|--|--|--|
| EPA Region | Name of Municipal Operator of CSS | NPDES Permit Number | Name of Great Lake Discharged to | Direct Discharge into Great Lakes? | Name of Water Body Directly Discharged into | Population Served by CSS | Population Served by WWTP | Design Capacity of WWTP (MGD) | | | |
| 5 | Village of Arlington Heights CSO TARP | N/A | Lake Michigan | N | Weller's Creek | NDA | NDA | 52 | | | |
| 5 | Village of Burnham CSO TARP | N/A | Lake Michigan | N | Grand Calumet River | NDA | NDA | 354 | | | |
| 5 | Village of Calumet Park CSO TARP | N/A | Lake Michigan | N | Cal-Sag Channel | NDA | NDA | 354 | | | |
| 5 | Village of Dolton CSO TARP | N/A | Lake Michigan | N | Little Calumet River | NDA | NDA | 354 | | | |
| 5 | Village of Forest Park CSO TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 | | | |
| 5 | Village of LaGrange CSO TARP | N/A | Lake Michigan | N | Salt Creek | NDA | NDA | 1200 | | | |
| 5 | Village of Lyons CSO TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 | | | |
| 5 | Village of Maywood CSO TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 | | | |
| 5 | Village of Melrose Park CSO TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 | | | |
| 5 | Village of Morton Grove CSO TARP | N/A | Lake Michigan | N | North Branch Chicago River | NDA | NDA | 333 | | | |
| 5 | Village of Niles CSO TARP | N/A | Lake Michigan | N | North Branch Chicago River | NDA | NDA | 333 | | | |
| 5 | Village of North Riverside TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 | | | |
| 5 | Village of River Forest CSO TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 | | | |
| 5 | Village of River Grove CSO TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 | | | |
| 5 | Village of Riverdale CSO TARP | N/A | Lake Michigan | N | Little Calumet River | NDA | NDA | 354 | | | |
| 5 | Village of Schiller CSO TARP | N/A | Lake Michigan | N | Des Plaines River | NDA | NDA | 1200 | | | |
| 5 | Village of South Holland CSO TARP | N/A | Lake Michigan | N | Little Calumet River | NDA | NDA | 354 | | | |
| 5 | Village of Stickney CSO TARP | N/A | Lake Michigan | N | Chicago Sanitary and Ship Canal | NDA | NDA | 1200 | | | |

Key: Y = Yes; N = No; N/A = Not Applicable; NDA = No Data Available

¹ All CSO communities in the Great Lakes Basin in Illinois are in the Chicago metropolitan area and part of the Tunnel and Reservoir Plan (TARP). TARP was approved as the LTCP for the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), the City of Chicago, and 40 satellite communities. Therefore, while each individual community that is part of TARP is listed in this table, there is also a record for the TARP system as a whole because all LTCP and CSO-related data is reported for TARP as a whole.

| Table A- 27. Illin | Table A- 27. Illinois LTCP Status | | | | | | | | | | | | |
|-----------------------------------|-----------------------------------|------------------------|---|--|---|--|---|--|--|--|--|--|--|
| 10 | | | ad | | LTCP or A | Iternative C | SO Control Plan | | | | | | |
| Name of Municipal Operator of CSS | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (Y/N/NA) | Description of Alternative CSO Control Plan | CSO Control Plan (LTCP or Alternative CSO Control Plan) Submitted (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approved (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approval Date | Projected Date for Full Implementation of LTCP or Alternative CSO Control Plan | CSO Control Plan (LTCP or Alternative CSO Control Plan) Milestones | | | | |
| TARP1 | N/A | Υ | N/A | N/A | Υ | Υ | June 28,1995 | N/A | | | | | |
| Brookfield CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| Chicago CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| City of Blue Island CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months | | | | |
| City of Calumet City CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months | | | | |
| City of Evanston CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| City of Harvey TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months | | | | |
| Des Plaines TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| Dixmoor CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months | | | | |
| Franklin Park CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| Golf CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| LaGrange Park CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| Lansing CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months | | | | |
| Lincolnwood CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| MWRDGC Calumet TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months | | | | |
| MWRDGC Kirie TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | completed | Progress reports every 6 months | | | | |
| MWRDGC Stickney TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| MWRDGC Northside TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| Park Ridge CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| Phoenix CSOTARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months | | | | |
| Posen CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months | | | | |
| Riverside CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| Skokie CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |
| Summit CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months | | | | |

| Table A- 27. Illin | ois LT | CP Sta | itus | | | | | | |
|--|---------------------|------------------------|---|--|---|---|---|--|--|
| S | | | ad | | LTCP or A | Iternative C | SO Control Plan | | |
| Name of Municipal Operator of CSS | NPDES Permit Number | LTCP Required (Y/N/NA) | Alternative CSO Control Plan Instead of LTCP (YININA) | Description of Alternative CSO Control Plan | CSO Control Plan (LTCP or Alternative CSO Control Plan) Submitted (Y/N) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approved (YM) | CSO Control Plan (LTCP or Alternative CSO Control Plan) Approval Date | Projected Date for Full Implementation of LTCP or Alternative CSO Control Plan | CSO Control Plan (LTCP or Alternative CSO Control Plan) Milestones |
| Village of Arlington Heights CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | completed | Progress reports every 6 months |
| Village of Burnham CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months |
| Village of Calumet Park CSOTARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months |
| Village of Dolton CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months |
| Village of Forest Park CSOTARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |
| Village of LaGrange CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |
| Village of Lyons CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |
| Village of Maywood CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |
| Village of Melrose Park CSOTARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |
| Village of Morton Grove CSOTARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |
| Village of Niles CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |
| Village of North Riverside TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |
| Village of River Forest CSO -TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |
| Village of River Grove CSOTARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |
| Village of Riverdale CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months |
| Village of Schiller CSO TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |
| Village of South Holland CSO - TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2015 | Progress reports every 6 months |
| Village of Stickney CSO - TARP | N/A | Υ | N | N/A | Υ | Υ | June 28,1995 | 12/31/2029 | Progress reports every 6 months |

¹ All CSO communities in the Great Lakes Basin in Illinois are in the Chicago metropolitan area and part of the Tunnel and Reservoir Plan (TARP). TARP was approved as the LTCP for the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), the City of Chicago, and 40 satellite communities. Therefore, while each individual community that is part of TARP is listed in this table, there is also a record for the TARP system as a whole because all LTCP and CSO-related data is reported for TARP as a whole.

| Table A- 28. Illinois Post-Cor | struction Comp | liance Monitor | ing Program St | atus | |
|---------------------------------------|---------------------|--|---|--|---|
| Name of Municipal Operator of CSS | NPDES Permit Number | Post-Construction Compliance Monitoring Plan Required (Y/N) | Post-Construction Compliance Monitoring Plan Submitted (Y/N) | Post-Construction Compliance Monitoring Plan Approved (Y/N) | Post-Construction Compliance Monitoring Plan Approval Date |
| TARP1 | N/A | Υ | N | N | N/A |
| Brookfield CSO TARP | N/A | Υ | N | N | N/A |
| Chicago CSO TARP | N/A | Υ | N | N | N/A |
| City of Blue Island CSO TARP | N/A | Υ | Υ | N | N/A |
| City of Calumet City CSO TARP | N/A | Υ | Υ | N | N/A |
| City of Evanston CSO TARP | N/A | Y | N | N | N/A |
| City of Harvey TARP | N/A | Υ | Υ | N | N/A |
| Des Plaines TARP | N/A | Υ | N | N | N/A |
| Dixmoor CSO TARP | N/A | Υ | Υ | N | N/A |
| Franklin Park CSO TARP | N/A | Υ | N | N | N/A |
| Golf CSO TARP | N/A | Υ | N | N | N/A |
| LaGrange Park CSO TARP | N/A | Υ | N | N | N/A |
| Lansing CSO TARP | N/A | Υ | Υ | N | N/A |
| Lincolnwood CSO TARP | N/A | Υ | N | N | N/A |
| MWRDGC Calumet TARP | N/A | Y | Y | N | N/A |
| MWRDGC Kirie TARP | N/A | Υ | N | N | N/A |
| MWRDGC Stickney TARP | N/A | Υ | N | N | N/A |
| MWRDGC Northside TARP | N/A | Υ | N | N | N/A |
| Park Ridge CSO TARP | N/A | Υ | N | N | N/A |
| Phoenix CSO TARP | N/A | Υ | Υ | N | N/A |
| Posen CSO TARP | N/A | Y | Y | N | N/A |
| Riverside CSO TARP | N/A | Y | N | N | N/A |
| Skokie CSO TARP | N/A | Y | N | N | N/A |
| Summit CSO TARP | N/A | Y | N | N | N/A |
| Village of Arlington Heights CSO TARP | N/A | Y | N | N | N/A |
| Village of Burnham CSO TARP | N/A | Y | Y | N | N/A |
| Village of Calumet Park CSOTARP | N/A | Υ | Υ | N | N/A |
| Village of Dolton CSO TARP | N/A | Y | Y | N | N/A |
| Village of Forest Park CSO TARP | N/A | Y | N | N | N/A |
| Village of LaGrange CSOTARP | N/A | Y | N | N | N/A |
| Village of Lyons CSO TARP | N/A | Υ | N | N | N/A |
| Village of Maywood CSO TARP | N/A | Υ | N | N | N/A |

| Table A- 28. Illinois Post-Cor | struction Comp | liance Monitor | ing Program St | atus | |
|-----------------------------------|---------------------|--|---|--|---|
| Name of Municipal Operator of CSS | NPDES Permit Number | Post-Construction Compliance Monitoring Plan Required (Y/N) | Post-Construction Compliance Monitoring Plan Submitted (Y/N) | Post-Construction Compliance Monitoring Plan Approved (Y/N) | Post-Construction Compliance Monitoring Plan Approval Date |
| Village of Melrose Park CSOTARP | N/A | Y | N | N | N/A |
| Village of Morton Grove CSO TARP | N/A | Υ | N | N | N/A |
| Village of Niles CSO TARP | N/A | Υ | N | N | N/A |
| Village of North Riverside TARP | N/A | Υ | N | N | N/A |
| Village of River Forest CSO TARP | N/A | Υ | N | N | N/A |
| Village of River Grove CSOTARP | N/A | Υ | N | N | N/A |
| Village of Riverdale CSO TARP | N/A | Υ | Υ | N | N/A |
| Village of Schiller CSO TARP | N/A | Υ | N | N | N/A |
| Village of South Holland CSO TARP | N/A | Υ | Υ | N | N/A |
| Village of Stickney CSOTARP | N/A | Y | N | N | N/A |

Key: Y = Yes; N = No; N/A = Not Applicable

¹ All CSO communities in the Great Lakes Basin in Illinois are in the Chicago metropolitan area and part of the Tunnel and Reservoir Plan (TARP). TARP was approved as the LTCP for the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), the City of Chicago, and 40 satellite communities.

Therefore, while each individual community that is part of TARP is listed in this table, there is also a record for the TARP system as a whole because all LTCP and CSO-related data is reported for TARP as a whole.

| Table A- 29. Illinois Pre- and Post-Construction CSO Status | | | | | | | | | | | |
|---|-----|--|-----------|--|---|------------------------------|---|---|-----------|--|--|
| Name of Municipal Operator of CSS | | Average Annual Number of CSO Events Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan | | Average Annual Historic Volume of CSOs Before Implementation of | CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | Average Annual Number of CSO | CSO Control Plan (LTCP or Alternative CSO Control Plan) | Average Annual Volume of CSOs Anticipated After Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | | | |
| Nam | | Treated | Untreated | Treated | Untreated | Treated | Untreated | Treated | Untreated | | |
| TARP ¹ | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Brookfield CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Chicago CSO TARP | N/A | 0 | NDA | 0 | NDA | NDA | NDA | NDA | 85% | | |
| City of Blue Island CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| City of Calumet City CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| City of Evanston CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| City of Harvey TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Des Plaines TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Dixmoor CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Franklin Park CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Golf CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| LaGrange Park CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Lansing CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Lincolnwood CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| MWRDGC Calumet TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| MWRDGC Kirie TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| MWRDGC Stickney TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| MWRDGC Northside TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Park Ridge CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Phoenix CSOTARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Posen CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Riverside CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Skokie CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Summit CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Village of Arlington Heights CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |
| Village of Burnham CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | |

| Table A- 29. Illinois Pre- and Post-Construction CSO Status | | | | | | | | | | | | |
|---|---------------------|--|-----------|---|-----------|------------------------------|---|---|-----------|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | Average Annual Number of CSO Events Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan | | Average Annual Number of CSO Events Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan Average Annual Historic Volume of CSOs Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | | Average Annual Number of CSO | CSO Control Plan (LTCP or Alternative CSO Control Plan) | Average Annual Volume of CSOs Anticipated After Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | | | | |
| Name | NPDE | Treated | Untreated | Treated | Untreated | Treated | Untreated | Treated | Untreated | | | |
| Village of Calumet Park CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of Dolton CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of Forest Park CSO - TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of LaGrange CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of Lyons CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of Maywood CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of Melrose Park CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of Morton Grove CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of Niles CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of North Riverside TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of River Forest CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of River Grove CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of Riverdale CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of Schiller CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of South Holland CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |
| Village of Stickney CSO TARP | N/A | 0 | NDA | 0 | NDA | 0 | NDA | 0 | 85% | | | |

Key: NDA = No Data Available; N/A = Not Applicable

¹ All CSO communities in the Great Lakes Basin in Illinois are in the Chicago metropolitan area and part of the Tunnel and Reservoir Plan (TARP). TARP was approved as the LTCP for the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), the City of Chicago, and 40 satellite communities. Therefore, while each individual community that is part of TARP is listed in this table, there is also a record for the TARP system as a whole because all LTCP and CSO-related data is reported for TARP as a whole.

| Table A- 30. Illinois 2014 CSC |) Status | | | | | |
|---------------------------------------|---------------------|---------|--------------------------------------|---|------------|--|
| Name of Municipal Operator of GSS | NPDES Permit Number | | - Total Number CSO Events in 2014 | Total CSO Overflow Volume in 2014 (MG/yr) | | |
| Na Op | ٩ | Treated | Untreated | Treated | Untreated | |
| TARP ¹ | N/A | 0 | 1 | 0 | 525 | |
| Brookfield CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Chicago CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| City of Blue Island CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| City of Calumet City CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| City of Evanston CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| City of Harvey TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Des Plaines TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Dixmoor CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Franklin Park CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Golf CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| LaGrange Park CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Lansing CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Lincolnwood CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| MWRDGC Calumet TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| MWRDGC Kirie TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| MWRDGC Stickney TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| MWRDGC Northside TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Park Ridge CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Phoenix CSOTARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Posen CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Riverside CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Skokie CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Summit CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Village of Arlington Heights CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Village of Burnham CSOTARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Village of Calumet Park CSOTARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Village of Dolton CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Village of Forest Park CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Village of LaGrange CSOTARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Village of Lyons CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Village of Maywood CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Village of Melrose Park CSOTARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Village of Morton Grove CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |
| Village of Niles CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | |

| Table A- 30. Illinois 2014 CSO Status | | | | | | | | |
|---------------------------------------|---------------------|------------------|----------------|---|------------|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | Total Mimbar CCO | Events in 2014 | Total CSO Overflow Volume in 2014 (MG/yr) | | | | |
| Nan | NPC | Treated | Untreated | Treated | Untreated | | | |
| Village of North Riverside TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | | | |
| Village of River Forest CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | | | |
| Village of River Grove CSOTARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | | | |
| Village of Riverdale CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | | | |
| Village of Schiller CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | | | |
| Village of South Holland CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | | | |
| Village of Stickney CSO TARP | N/A | 0 | Footnote 2 | 0 | Footnote 2 | | | |

Key: N/A = Not Applicable

² Illinois reported 41 CSO events from TARP in 2014. However, most of the events go to Chicago-area rivers and only one event went to Lake Michigan.

| Table A- 31. Wisconsin CSO Community Summary Information | | | | | | | | | |
|--|--------------------------------------|-----------------------------------|---------------------|----------------------------------|------------------------------------|--|--------------------------|---------------------------|-------------------------------|
| EPA Region | State | Name of Municipal Operator of CSS | NPDES Permit Number | Name of Great Lake Discharged to | Direct Discharge into Great Lakes? | Name of Water Body Directly Discharged into | Population Served by CSS | Population Served by WWTP | Design Capacity of WWTP (MGD) |
| 5 | WI | Milwaukee | W0036820 | Lake Michigan | Υ | Lake Michigan | NDA | 1.1 million | 123 |
| 5 | WI | Superior | W0025593 | Lake Superior | Y | Lake Superior | NDA | 27,000 | 7.6 |
| Key: Y | Key: Y = Yes; NA = No Data Available | | | | | | | | |

¹ All CSO communities in the Great Lakes Basin in Illinois are in the Chicago metropolitan area and part of the Tunnel and Reservoir Plan (TARP). TARP was approved as the LTCP for the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), the City of Chicago, and 40 satellite communities. Therefore, while each individual community that is part of TARP is listed in this table, there is also a record for the TARP system as a whole because all LTCP and CSO-related data is reported for TARP as a whole.

| Table A- 32. Wisconsin LTCP Status | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| ol Plan | | | | | | | | |
| Implementation of LTCP or Alternative CSO Control Plan | CSO Control Plan (LTCP or Alternative CSO Control Plan) Milestones | | | | | | | |
| and additional | NDA | | | | | | | |
| tes document | NDA | | | | | | | |
| e | atement efforts were and additional emented between e completed by 1980 ates document ments | | | | | | | |

| Table A- 33. Wisconsin Post-Construction Compliance Monitoring Program Status | | | | | | | | | |
|---|---------------------|--|---|--|---|-------|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | Post-Construction Compliance Monitoring Plan Required (Y/N) | Post-Construction Compliance Monitoring Plan Submitted (Y/N) | Post-Construction Compliance Monitoring Plan Approved (Y/N) | Post-Construction Compliance Monitoring Plan Approval Date | Notes | | | |
| Milwaukee | WI0036820 | Y | Υ | Υ | 12/26/2007 | | | | |
| Superior | W10025593 | Υ | Υ | Υ | 3/23/2015 | | | | |
| Key: Y = Yes; N = No | | | | | | | | | |

| Table A- 34. Wisconsin Pre- and Post-Construction CSO Status | | | | | | | | | |
|--|---------------------|--|-----------|--|-------------|---|-----------|---|-----------|
| Name of Municipal Operator of CSS | NPDES Permit Number | Average Annual Number of CSO Events Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) | | Average Annual Historic Volume of CSOs Before Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | | Average Annual Number of CSO Events After Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) | | Average Annual Volume of CSOs Anticipated After Implementation of CSO Control Plan (LTCP or Alternative CSO Control Plan) (MG/yr) | |
| Nam | NPD | Treated | Untreated | Treated | Untreated | Treated | Untreated | Treated | Untreated |
| Milwaukee | WI0036820 | NDA | 50 to 60 | NDA | 8000 - 9000 | NDA | <3 | NDA | 770 |
| Superior | WI0025593 | N/A | NDA | N/A | NDA | 0.74 | NDA | NDA | NDA |
| Key: N/A = Not Applicable; NDA = No Data Available | | | | | | | | | |

| Table A- 35. Wisconsin 2014 CSO Status | | | | | | | | | |
|--|---------------------|----------------------------|------|------------------------------|-----------|--|--|--|--|
| Name of Municipal Operator of CSS | NPDES Permit Number | Total Number CSO Events in | 2014 | Total CSO Overflow Volume in | (J) | | | | |
| Naı | Treated Untreated | | | | Untreated | | | | |
| Milwaukee | W10036820 | 0 | 1 | 0 0.337 | | | | | |
| Superior | W0025593 | 0 | 0 | 0 0 | | | | | |

Glossary



Alternative Combined Sewer Overflow (CSO) Control Plan

Any CSO control plan that is recognized by a regulatory authority as an acceptable CSO control plan but does not meet the nine elements of a long-term control plan as documented in the CSO Control Policy, and/or does not meet the minimum requirements for a long-term control plan for a small community under 75,000, as described in the CSO Control Policy. Examples include sewer separation, grandfathered or pre-policy CSO control, and Tunnel and Reservoir Plan.

B

Best Available Technology Economically Achievable (BAT)

Technology-based standard established under the Clean Water Act (CWA) for effluent limitations in National Pollutant Discharge Elimination System (NPDES) permits for toxic antim sd nonconventional pollutants.

Best Conventional Pollutant Control Technology (BCT)

Technology-based standard established under the C WA

for effluent limitations in NPDES permits for conventional pollutants, including biochemical oxygen demand, total suspended solids, fecal coliform, pH, and oil and grease.

C

Clean Water Act (CWA)

Refers to the Federal Water Pollution Control Act Amendments of 1972 (P.L. 92-500), 33 U.S.C. 1251 et seq., as amended.

Combined Sewer Overflow (CSO)

The discharge from a combined sewer system at a point prior to the publicly owned treatment works treatment plant.

Combined Sewer Overflow (CSO) Control Policy

An EPA policy published on April 19, 1994 (59 FR 18688).

Combined Sewer Overflow (CSO) Event

One or more overflows from a combined sewer system resulting from a wet weather event that does not receive at least primary clarification, solids and floatables disposal, and disinfection of the effluent.

Combined Sewer Overflow (CSO) Volume

The total volume (in millions of gallons) of effluent discharged in a combined sewer overflow event.

Combined Sewer System (CSS)

A wastewater collection system owned by a state or municipality [as defined by section 502 (4) of the CWA] that conveys sanitary wastewaters (domestic, commercial, and industrial wastewaters) and stormwater through a single-pipe system to a publicly owned treatment works treatment plant [as defined in 40 CFR 403.3(p)].

Construction Grants Program

Federal assistance program authorized under Section 201 of the Clean Water Act to make grants to states, municipalities, and intermunicipal or interstate agencies for the construction of publicly owned treatment works.

Conventional Pollutants

The CWA defines conventional pollutants that include biochemical oxygen demand, total suspended solids, fecal coliform, pH, and oil and grease.

D

Demonstration Approach

One of two methods described in the CSO Control Policy for developing a LTCP. The CSO Control Policy provides that a permittee may demonstrate that a selected control program is adequate to meet the water quality-based requirements of the CWA.

Direct Discharger

For the purposes of this Report to Congress, an owner/operator of a combined sewer system with one or more combined sewer overflow outfalls discharging directly into one of the Great Lakes.

Dissolved Oxygen (DO)

The oxygen freely available in water, which is vital for sustaining fish and other aquatic life as well as for preventing odors. DO levels are considered one of the most important indicators of a water body's ability to support desirable aquatic life.

Dry Weather Flow Conditions

Hydraulic flow conditions within the combined sewer system resulting from one or more of the following: flows of domestic sewage, ground water infiltration, commercial and industrial wastewaters, or any other nonprecipitation event-related flows (e.g., tidal infiltration under certain circumstances).

${f F}$

Floatables and Trash

Visible buoyant or semibuoyant solids including but not limited to organic matter, personal hygiene items, plastics, styrofoam, paper, rubber, glass, and wood.

G

Great Lakes Basin

The total watershed areas within the United States discharging into the Great Lakes. Note that areas of Canada also discharge into the Great Lakes, but they are not considered in this Report.

Green Infrastructure

An engineered structure or natural feature that utilizes natural processes to control stormwater runoff as close to its source as possible. Green infrastructure reduces the quantity and rate of stormwater flows through the processes of infiltration, evapotranspiration, and capture and use (i.e., rainwater harvesting).

H

Headworks of a Wastewater Treatment Plant

The initial structures, devices, and processes provided at a wastewater treatment plant, including screening, pumping, measuring, and grit removal facilities.

I

Infiltration

Stormwater and ground water that enter a sewer system through such means as defective pipes, pipe joints, connections, or manholes. (Infiltration does not include inflow).

Infiltration/Inflow (I/I)

The combined volume of flow in a sewer system from both infiltration and inflow.

Inflow

Water, other than wastewater, that enters a sewer system from sources such as roof leaders, cellar drains, yard drains, area drains, foundation drains, drains from springs and swampy areas, manhole covers, cross connections between storm drains and sanitary sewers, catch basins, cooling towers, stormwater, surface runoff, street waste waters, and other drainage. (Inflow does not include infiltration).

L

Long-Term Control Plan (LTCP)

A combined sewer overflow control plan that is ultimately intended to result in compliance with the CWA. LTCPs consider the site-specific nature of combined sewer overflows and evaluate the cost-effectiveness of a range of controls. The CSO Control Policy describes two

approaches for selecting an adequate level of control in the LTCP - the presumption approach and the demonstration approach.

M

Major Publicly Owned Treatment Works (POTW)

A classification for POTWs that are designed to discharge 1 million or more gallons per day. Some publicly owned treatment works with smaller design flows are classified as major when the NPDES authority deems it necessary for a specific NPDES permit to have a stronger regulatory focus.

Million Gallons per Day (MGD)

A unit of flow commonly used for wastewater discharges. One million gallons per day is equivalent to a flow rate of 1.547 cubic feet per second over a 24-hour period.

Minor Publicly Owned Treatment Works (POTW)

A classification for POTWs that are designed to discharge less than 1 million gallons per day.

N

National Pollutant Discharge Elimination System (NPDES)

The national program for issuing, modifying, revoking and reissuing, terminating,

monitoring, and enforcing permits, and imposing and enforcing pretreatment requirements under Sections 307, 318, 402, and 405 of the CWA.

Nine Minimum Controls (NMC)

Specific steps set forth in the CSO Control Policy that comprise the minimum technology-based effluent limitations to be included in a NPDES permit for combined sewer overflows.

Nutrient

A compound that is necessary for metabolism.



Point Source

Defined in section 502(14) of the CWA as any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit. well, discrete fixture, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel, or other floating craft from which pollutants are or may could be discharged. The term does not include agricultural stormwater discharges and return flows from irrigated agriculture.

Post-Construction Compliance Monitoring

A water quality monitoring program to verify compliance with WQSs and protection of designated uses as well as to ascertain the effectiveness of combined sewer overflow controls after completion of construction called for in the long-term control plan, as described in Section II.C.9 of the CSO Control Policy.

Presumption Approach

One of two methods described in the CSO Control Policy for developing a LTCP. The CSO Control Policy provides that a program in a LTCP that meets certain minimum performance criteria defined in the Policy "... would be presumed to provide an adequate level of control to meet the water quality-based requirements of the CWA, provided the permitting authority determines that such presumption is reasonable in light of the data and analysis conducted in the characterization, monitoring, and modeling of the system and the consideration of sensitive areas..." (CSO Control Policy II.C.4.a).

Primary Treatment

First steps in wastewater treatment wherein screens and sedimentation tanks are used to remove most materials that float or will settle. For purposes of this Report, "primary treatment" means the same as "primary treatment or equivalent treatment "in Section 301(h) of the CWA: "treatment by screening, sedimentation, and skimming adequate to remove 30 percent of biochemical oxygen demand (BOD) and 30 percent of suspended solids."

Publicly Owned Treatment Works (POTW)

As defined in 40 CFR 403.3(q), a treatment works as defined by section 212 of the CWA that is owned by a state or municipality. This definition includes any devices and systems used in the storage, treatment, recycling, and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes, and other conveyances only if they convey wastewater to a publicly owned treatment works treatment plant.

S

Sanitary Sewer Overflow (SSO)

An untreated or partially treated sewage release from a separate sanitary sewer system.

Secondary Treatment

Technology-based requirements for discharges from municipal sewage treatment facilities. 40 CFR 133.102 defines secondary treatment as 30-day averages of 30 milligrams per liter BOD_5 and 30 milligrams per liter suspended solids, along with maintenance of pH within 6.0 to 9.0 (except as provided for special considerations and treatment equivalent to secondary treatment).

Separate Sanitary Sewer (SSS)

A municipal wastewater collection system that conveys domestic, commercial, and industrial wastewater, and limited amounts of infiltrated ground water and stormwater to a publicly owned treatment works treatment plant. Areas served by separate sanitary sewer systems often have a municipal separate storm sewer system to collect and convey runoff from rainfall and snowmelt.

Sewer Separation

The practice of separating a combined sewer system into storm sewers for stormwater flows and separate sanitary sewers for sanitary flows.

State Revolving Fund (SRF) Program

A federal program created by the CWA Amendments in 1987 that offers low-interest loans for wastewater treatment projects.

\mathbf{T}

Total Suspended Solids (TSS)

A measure of the filterable solids present in a sample of water or wastewater (as determined by the method specified in 40 CFR Part 136).

Toxics

Materials contaminating the environment that cause death, disease, and/or birth defects in organisms that ingest or absorb them. The quantities and length of

exposure necessary to cause these effects can vary widely.

Treated CSO DischargesCSO discharges that receive a minimum of:

- Primary clarification (Removal of floatables and settleable solids may be achieved by any combination of treatment technologies or methods that are shown to be equivalent to primary clarification.):
- Solids and floatables disposal; and
- Disinfection of effluent, if necessary, to meet WQSs, protect designated uses and protect human health, including removal of harmful disinfection chemical residuals, where necessary.

W

Water Quality Standard (WQS)

A law or regulation that defines the goals for a water body by designating its use, setting criteria to protect those uses, and establishing provisions such as antidegradation policies to protect waterbodies from pollutants.

Water Quality-based Effluent Limitations (WQBELs)

Effluent limitations in NPDES permits that are required when technology-based limitations are insufficient for attainment of WQSs.

Waters of the United States (WOUS)

Defined in 40 CFR §122.2.

Wet Weather Event

A discharge from a combined or separate sanitary sewer system that occurs in direct response to rainfall or snowmelt.

Wet Weather Flow

Dry weather flow along with flows from a wet weather event in a sewer. This page intentionally left blank.