

BUFFALO

SEWER AUTHORITY

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) PERMIT RENEWAL

Enhanced Public Participation Plan (EPPP)

▶ November 30, 2025



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Section 1 Introduction

1.1 Project Overview

The Buffalo Sewer Authority (BSA, Buffalo Sewer) provides wastewater conveyance and treatment services to approximately 450,000 residents and businesses located in the City of Buffalo and surrounding communities. The Bird Island Wastewater Treatment Facility (WWTF) treats wastewater collected from the City of Buffalo service area and discharges the treated effluent to the Niagara River under authority of the Clean Water Act and the State Pollutant Discharge Elimination System (SPDES) permitting process. BSA owns, operates, and maintains the collection system that serves the City of Buffalo service area and the interceptor system, including interceptors and pump stations, that convey flow from the surrounding communities and the City residents to the WWTF.

The WWTF provides primary and secondary treatment, disinfection, and solids handling. The primary treatment system was constructed in 1935, and the secondary treatment system was constructed between 1970-1985. Figure 1-1 is the site plan for the primary system. The existing primary system includes four Primary Sedimentation Tanks (PSTs), Sludge Pumping Station, Sodium Hypo Feed Building, and Outfall Structure 001.

The WWTF Wet Weather Capacity Project is a major construction project that was included in the 2014 Selected Alternative Long Term Control Plan and the Amended LTCP titled as the LTCP facility “No Feasible Alternative” (NFA), and is being conducted in three phases. Buffalo Sewer has already conducted extensive public outreach throughout the City of Buffalo related to this project. Phase I is the Secondary System Rehabilitation and Upgrade Project intended to rehabilitate the WWTF’s biological systems to improve treatment of current flows; Phase I is currently under construction. Phase II is the WWTF Primary Treatment Renovation Project, which will: improve the existing primary treatment system and ensure treatment capacity up to 160 million gallons per day; include construction and installation of an odor control system to address community concerns; and provide a new High-Rate Disinfection pumping station and chlorine contact tank to improve water quality of effluent discharges through a repurposed Outfall 001. Phase II has initiated construction start for the primary tanks renovation and the installation of the odor control system. Phase III is currently in early design with analysis ongoing of the hydraulics of each of the final clarifiers. Phase III will ultimately increase the throughput flow for the Secondary System to 400 MGD during wet weather through the increase in number of final clarifiers, increased capacity for flow from the aeration tanks to those clarifiers, increased chlorine contact tanks, and associated work.

In addition to fulfilling the commitments made under the 2014 Selected Alternative Long Term Control Plan and the Amended LTCP, these facility upgrades at the Bird Island WWTF also **have direct relevance to the upcoming SPDES permit renewal and the**

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associated updated water quality standards that these WWTF project upgrades will maintain. BSA's renewed SPDES permit will be comprised of the following information:

- Location of WWTF and Combined Sewer Overflow outfalls
- Effluent permit limits, action levels, and monitoring requirements for parameters such as:
 - Flow
 - BOD
 - Solids, Total Suspended
 - Solids, Settleable
 - PH
 - Nitrogen, Ammonia (as NH₃)
 - Nitrogen, TKN (as N)
 - Temperature
 - Phenols, Total
 - Phosphorus, Total (as P)
 - Mercury, Total
 - Effluent Disinfection, including; Fecal Coliform and Total Chlorine Residual
 - Cadmium
 - Chromium
 - Copper
 - Cyanide
 - Lead
 - Nickel
 - Zinc
 - Bis(2-Ethylhexyl) Phthalate
- Effluent Toxicity Testing
- Pretreatment Program Implementation Requirements
- Best Management Practices for Combined Sewer Overflows (CSOs)
- Stormwater Pollution Prevention Plan for the outfalls
- Discharge Notification Requirements
- Schedule of Compliance – short-term High Intensity Monitoring
- Mercury Minimization Program
- Monitoring Locations
- Recording, Reporting, and Additional Monitoring Requirements.

BSA environmental compliance documents, including the previous SPDES on file prior to the upcoming permit renewal, is found at

<https://buffalosewer.org/about/transparency/environmental-compliance/>.

This Enhanced Public Participation Plan (EPPP) is intertwined with and incorporates details of the PPP for the 2014 Selected Alternative Long Term Control Plan and the Amended LTCP PPP that was approved by NYSDEC on October 1, 2024 and has had the required activities completed by BSA under the year-long timeframe. Public

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participation efforts will continue through the lifecycle of the BSA design and construction projects.

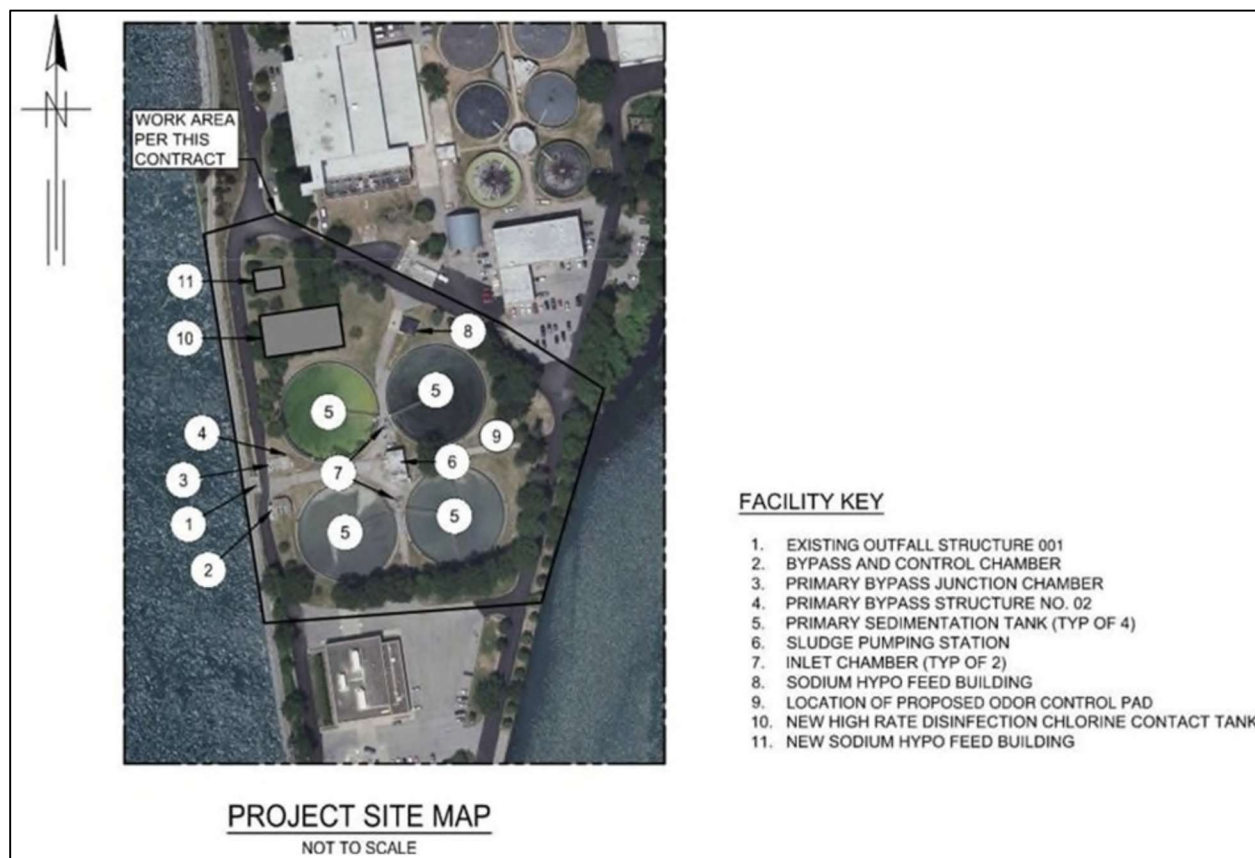


Figure 1-1: Map of BSA's Primary Treatment Process

1.2 Purpose of the Enhanced Public Participation Plan

The purpose of this EPPP is to document the mechanisms by which the Buffalo Sewer Authority has and will disseminate information about the project to the public while seeking meaningful feedback from community members and to facilitate a stronger public understanding of needed investments in water infrastructure.

Community engagement efforts for this project will be focused in three areas:

1. A series of public meetings to allow for discussion of the projects.
2. Dissemination of written information to, and solicitation of feedback from, the community on the Amended LTCP – also publicly known as Queen City Clean Waters (QCCW), effective October 16, 2024 (<https://buffalosewer.org/buffalo-sewer-authority-unveils-queen-city-clean-waters-initiative/>) – through activities such as tabling at events, a publicly

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- accessible website, presentations at community meetings, and distribution of informational pamphlets;
3. Direct outreach to local elected officials and community-based organizations in those communities and neighborhoods impacted by the revised long-term control plan.

The key elements of this project include the following:

- Protect Public Health and the Environment; Improved Water Quality for the Niagara River.
- Compliance with regulatory requirements to Achieve LTCP Goals.
- Modernizing and upgrading the WWTF.
- Implementing an Odor Control system for the Primary Settling Tanks, which has been a frequent request of the local community.
- Project costs.
- Rehabilitating the WWTF's secondary treatment biological systems to improve treatment of current flows.
- Repairing of Outfall 001, will require a temporary closure of a portion of the Riverwalk that runs along the Bird Island WWTF. The current timeline is 6-8 months over a period between 2026-2027. A Work Zone Traffic Control Plan has been developed to detour pedestrians and cyclists along Niagara Street between Freedom Park (formerly Broderick Park) and Unity Island Park. Neither park will experience any closures.
- Expand the WWTF's secondary treatment biological system to handle more flow through the WWTF during wet weather events.
- Commitment to Economic Growth: Supplier Diversity and Local Workforce
- Penalties for Non-Compliance, and Potential Rate Impacts
- Opportunities for Ongoing Involvement

The approach in the development of this EPPP consists of the following:

- Identifying stakeholders affected by the project, accounting for particular consideration to public participation efforts in potential environmental justice areas and achieving the desired equitable outcomes, since these communities (often minority or low-income populations) have been historically absent from the public participation process;
- Identifying methods of distributing written information and conducting public information meetings on the WWTF upgrades and the environmental permit review process, including opportunities for public input towards the project;
- Identifying easily accessible document repositories for the community, including near the project and environmental justice areas.

Section 2 Stakeholder Engagement Strategy

2.1 Public Participation Methodology

Buffalo Sewer has targeted community engagement efforts to the City of Buffalo Common Council District the project is located within. The Bird Island WWTF is located within the **Niagara District** and is immediately adjacent to the North District. A variety of meetings provide ample opportunity to relay information about the project to community members and stakeholders, and to solicit questions and feedback on the proposed work and its impact to the surrounding neighborhood. These meetings include:

- Scheduled after consulting with community leaders, local organizations, municipal and school officials, and other stakeholders in setting a meeting date. Meetings will be scheduled to avoid important meetings or events that are regularly held or already scheduled within the community;
- Held at a time when working people can attend, and not conflict with national or religious holidays or locally important observances; and
- Held in a location that is familiar to residents and community members (i.e. municipal hall, school, fire station or library), is easily accessible to people with disabilities and to public transportation, and has ample workspace and parking. The Authority will consult with community leaders, organizations, municipal and school officials, and other stakeholders will be able to help identify an appropriate location for the meeting.

The meeting types occurring include:

- **Meeting with Common Council Members** – depending on Common Council preferences, a series of meetings with Common Council members may be held, and/or a single presentation before the Common Council at their office on the 10th floor of City Hall during a caucus or regular meeting to explain the Amended LTCP, including WWTF upgrades, and review the design plans. The purpose is to provide the Council Member(s) and/or their staff with information before the public engagement begins so that they are prepared to respond to community questions and may also assist in proactively sharing project information through their public communications.
- **Community Group Meetings** – many neighborhoods and parks in Buffalo have established community groups and block clubs with routine meeting schedules. Buffalo Sewer, in coordination with the Common Council, BSA's *Queen City Clean Waters* Stakeholder Advisory Committee, and the Buffalo Board of Block Clubs of Erie County will reach out to these groups to request an opportunity to present the project and solicit feedback from these stakeholders. These types of meetings will continue to be held throughout the Project lifecycle to facilitate continual community information and feedback loops.

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- **Scheduled District Meetings** – similar to the community group meetings, many Council Members hold routine meetings within their Common Council District. BSA would reach out to Council Member’s staff to request an opportunity to present the project and solicit feedback from the constituents that attend these meetings.
- **Amended LTCP Public Meetings** – since April 2025, Buffalo Sewer organized a total of nine public meetings at community centers within the nine Common Council Districts in consultation with Common Council staff to attempt to garner maximum interest and participation. Meeting recordings are available at <https://buffalosewer.org/construction-projects/queen-city-clean-waters/>
- **Virtual Meetings** – for those that are unable to attend the live Amended LTCP public meetings, virtual meeting were scheduled and recorded to encourage maximum participation. These virtual meetings will continue to be held periodically.

2.2 Identifying Stakeholders

The primary stakeholder contact list is shown in **Table 2-1**. The contact list identifies organizations with a direct stake or interest in the Primary Treatment Renovation project, including:

- Residents and neighborhood groups who are near or adjacent to the proposed project and that will be or potentially will be affected by the operation. This includes a sizable *New American* immigrant and refugee population based in the North and Niagara district areas;
- Community boards, community leaders, local community, civic and recreational organizations, environmental and business groups;
- People who have expressed an interest in similar projects or in projects affecting the same neighborhood or community;
- Neighborhood religious establishments; and
- Elected officials who live in and/or represent the community of concern.

| Table 2-1: Primary (Direct) Stakeholder Contact List | |
|---|---|
| Assembly Of Christian Church 211 Ontario St, Buffalo NY (716) 883-1120 | Ontario Street United Methodist Church 179 Ontario St, Buffalo NY (716) 875-3639 |
| Believe in Black Rock believeinblackrock@gmail.com https://www.facebook.com/BelieveinBR/ | Our Lady of Hope Parish 18 Greenwood Place, Buffalo, NY 14213 (716) 885-2469 https://www.ourladyofhopewny.org/ |

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| | |
|--|---|
| Black Rock Riverside Alliance 52 Amherst St, Buffalo, NY 14207 (716) 322-6602 https://brralliance.org/index.php/contact/ https://brralliance.org/ | People for United Sustainable Housing (PUSH Buffalo) 429 Plymouth Ave Suite 1, Buffalo, NY 14213 (716) 884-0356 https://www.pushbuffalo.org/ |
| Buffalo Myanmar Indigenous Christian Fellowship Church 410 East St, Buffalo, NY 14207 (716) 885-5911 | Rediscover Riverside (716) 830-9817 rediscoverriversidewny@gmail.com |
| Buffalo Niagara Waterkeeper 721 Main St, Buffalo, NY 14203 716.852.7483 info@bnwaterkeeper.org https://bnwaterkeeper.org/ | Rehoboth Ministries Worship 1020 Grant St, Buffalo, NY 14207 (716) 874-4393 |
| Clean Air Coalition of WNY 371 Delaware Ave, Buffalo, NY 14202 (716) 852-3813 info@cacwny.org https://www.cacwny.org/ | Riverside Baptist Church 346 Ontario St, Buffalo, NY (716) 876-3994 |
| City Department of Public Works, Parks & Streets (DPW) 65 Niagara Square, Room 502, Buffalo, NY 14202 716-851-5636 https://www.buffalony.gov/312/Department-of-Public-Works-Parks-Streets | Riverside Park Buffalo Olmsted Parks Conservancy 84 Parkside Ave. Buffalo, NY 14214 716-838-1249 https://www.bfloparks.org/parks/riverside-park/ |
| El Batey Puerto Rican Center 175 Rano St, Buffalo, NY 14207 Phone: (716) 348-0156 https://elbateyprcenter.business.site/?m=true | Sāsanasukha Buddhist Temple 861 Military Rd, Buffalo, NY 14217 |
| Friends of Freedom Park (formerly Broderick Park) 1170 Niagara Street, Buffalo, NY 14213 (716) 851-5553 https://friendsofbroderickpark.com/ | Shwe Min Won Myanmar Monastery 356 Plymouth Ave, Buffalo, NY 14213 716-777-3925 |
| Friends of Unity Island Park friendsofunityisland@gmail.com https://brralliance.org/index.php/friends-of-unity-island/ | St. Marks and All Saints Episcopal Church 311 Ontario St, Buffalo, NY 14207 (716) 875-8374 |

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| | |
|--|---|
| International Institute of Buffalo 864 Delaware Avenue Buffalo, New York 14209 (716) 883-1900 https://iibuffalo.org/ | Vision Niagara https://visionniagara.org/ info@visionniagara.org |
| Jericho Road Community Health Center 184 Barton Street Buffalo, NY 14213 716-348-3000 contact@jrchc.org https://jrchc.org/ | West Side Bazaar https://www.wedibuffalo.org/ 436 Grant Street Buffalo, NY 14213 716.393.4088 info@wedibuffalo.org |
| Council Member David A. Rivera – Niagara District 65 Niagara Sq., Rm. 1504 Buffalo, NY 14202 (716) 851 – 5125 darivera@city-buffalo.com https://www.buffalony.gov/1133/David-A-Rivera | |
| Council Member Joseph Golombek, Jr. – North District 65 Niagara Sq., Rm. 1502 Buffalo, NY 14202 (716) 851-5116 NORTH2@buffalony.gov https://www.buffalony.gov/1155/Joseph-Golombek-Jr | |

Along with the primary contact list of actual stakeholders (above), a secondary contact list is provided in **Table 2-2** for those with overall potential project interests.

| Table 2-2: Secondary (Indirect) Stakeholder Contact List | |
|--|---|
| Buffalo Rocket Community News 9195 Main Street Clarence, New York 14031 (716) 632-0808 buffalorocket@gmail.com http://buffalorocket.com/ | Int'l Peace Bridge authority Buffalo and Fort Erie Public Bridge Authority 716-843-8521 https://www.peacebridge.com/ |
| Challenger Community News 1337 Jefferson Ave, Buffalo, NY 14208 (716) 881-1051 https://issuu.com/challengercommunitynews | NYS Regional Public Participation Specialist Region 9 - Regional Director 700 Delaware Avenue, Buffalo, NY 14209 Phone: (716) 851-7200 Regional Public Participation Specialist Phone (716) 851- 7201 |

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The approach to these community and stakeholder meetings will follow the following format and practices:

- Meeting notices will be publicized as early as practicable, but no later than three (3) weeks prior to the meeting, to give stakeholders ample notification;
- Notices will be published as follows:
 - Common Council members and other local elected officials will be notified via email;
 - Posted via Buffalo Sewer social media outlets;
 - Posted on the Buffalo Sewer website; and,
 - Board of Block Clubs of Buffalo and Erie County will be notified via email.
- The notification for the public meetings will include:
 - the name of the project owner (Buffalo Sewer);
 - the name and address of the proposed project;
 - the description of why the meeting is being held;
 - the time and place of the public meeting;
 - a short description of why the public should attend;
 - a short description about how the public can participate, the type of input sought, whether there will be a question-and-answer period;
 - a brief description about the information that will be discussed; and
 - contact information for any questions about meeting.
- At the beginning of the meeting, review the agenda and invite attendees to set and agree to meeting ground rules. Let the attendees know how they can participate and allow for comment/question periods both during and at the conclusion of the meeting as time allows. Also, let the attendees know where they can obtain answers to questions they may have after the meeting has concluded.
- Encourage dialogue during the meeting. Avoid one-sided meetings where either the project sponsor does all of the talking or where the stakeholders read a prepared statement with no feedback from the project sponsor. If a specific stakeholder group self-identifies a need for further discussion, meetings specific to that constituency may be arranged.

2.3 Potential Environmental Justice Area

The City of Buffalo, as displayed in the map below, is composed of predominantly Potential Environmental Justice Areas.

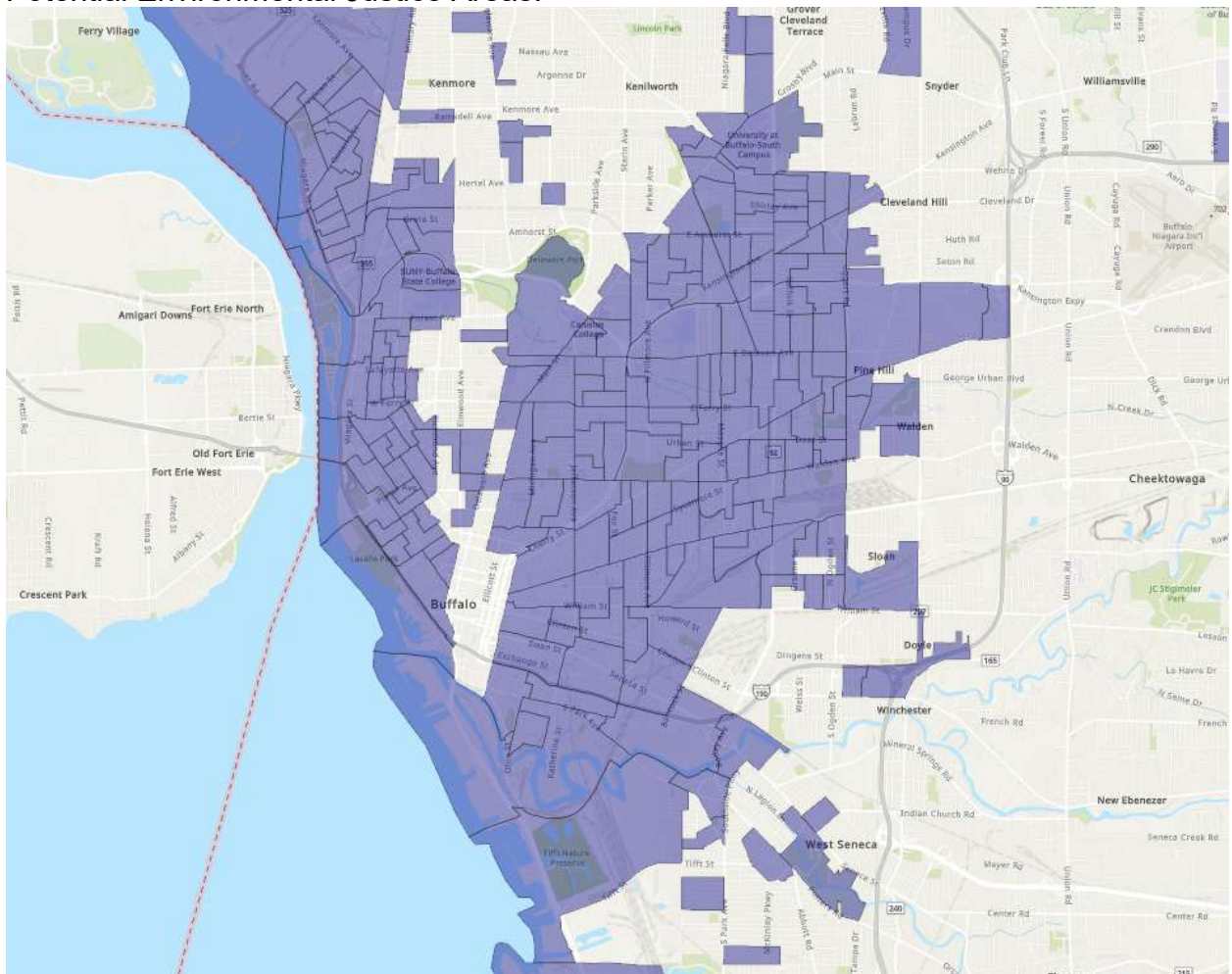


Figure 2-1: Potential Environmental Justice Areas as Identified by New York State Department of Environmental Conservation

In developing the Selected Alternative Projects for the Revised Long-Term Control Plan, Buffalo Sewer utilized the Council on Environmental Quality's Climate and Economic Justice Screening Tool. The criteria for identifying burdens for the Selected Alternative were:

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| No. | Category | Threshold for Environmental, climate, or other burdens | Threshold for Socioeconomic Burden |
|-----|-----------------------|---|---|
| 1 | Climate change | At or above the 90th percentile for expected agriculture loss rate, expected building loss rate, expected population loss rate, projected flood risk, or projected wildfire risk | At or above the 65th percentile for low income |
| 2 | Energy | At or above the 90th percentile for energy cost or PM2.5 in the air | At or above the 65th percentile for low income |
| 3 | Health | At or above the 90th percentile for asthma, diabetes, heart disease, or low life expectancy | At or above the 65th percentile for low income |
| 4 | Housing | Experienced historic underinvestment or are at or above the 90th percentile for the housing cost, lack of green space, lack of indoor plumbing, or lead paint | At or above the 65th percentile for low income |
| 5 | Legacy pollution | Have at least one abandoned mine land or Formerly Used Defense Sites or are at or above the 90th percentile for proximity to hazardous waste facilities, proximity to Superfund sites (National Priorities List (NPL)), or proximity to Risk Management Plan (RMP) facilities | At or above the 65th percentile for low income |
| 6 | Transportation | At or above the 90th percentile for diesel particulate matter exposure, transportation barriers, or traffic proximity and volume | At or above the 65th percentile for low income |
| 7 | Water and wastewater | At or above the 90th percentile for underground storage tanks and releases or wastewater discharge | At or above the 65th percentile for low income |
| 8 | Workforce development | At or above the 90th percentile for linguistic isolation, low median income, poverty, or unemployment | Fewer than 10% of people ages 25 or older have a high school education (i.e., graduated with a high school diploma) |

As shown in Figure 2-2, there is significant overlap between disadvantaged communities as identified on the basis of the criteria and the LTCP Optimizations Selected Alternative Projects:

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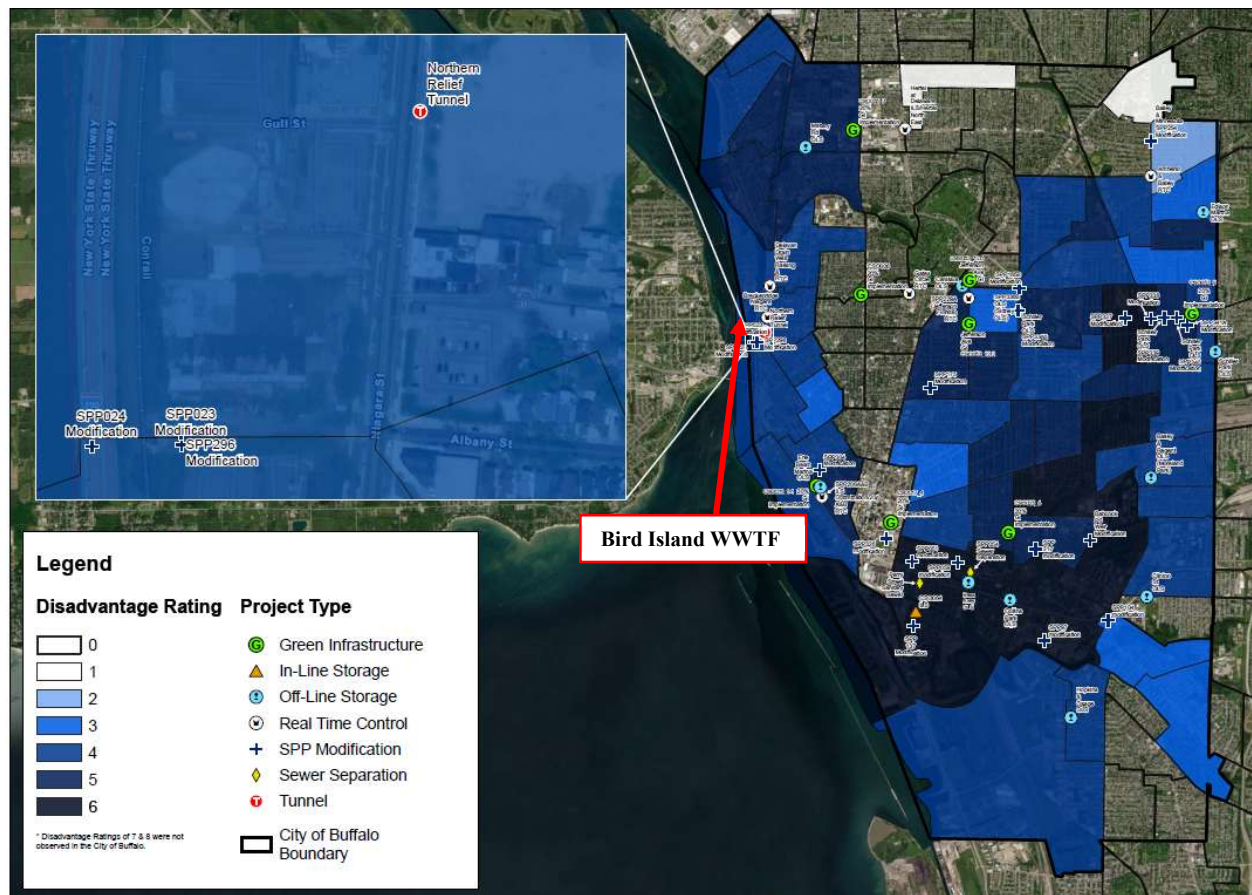


Figure 2-2: Selected Alternative Projects and Disadvantaged Communities.

Buffalo has many hyperlocal neighborhood groups included in these communities, as the City’s population continues to evolve, new neighborhood groups form and older ones may dissolve. Working together with the Common Council Members, the Partnership for the Public Good, the Buffalo Board of Block Clubs of Erie County, and other existing partners, Buffalo Sewer will continually work to identify community-based organizations and community residents specific to the neighborhoods of each of these project and throughout the implementation of the LTCP Selected Alternative project will maintain continuous community engagement.

Section 3 Distribute and Post Written Information on the Proposed Action and Permit Review Process

3.1 Materials Development and Distribution

Educational, easy to understand materials and information have been and will continue to be developed for distribution to and through the local elected officials, community-based organizations, as fliers to those most directly impacted residents, and during Buffalo’s many parades and festivals, including, but not limited to:

- Dyngus Day
- Buffalo Cherry Blossom Festival
- Pride Festival
- University United Festival
- Juneteenth
- Taste of Diversity Festival
- City of Buffalo Clean Sweep
- Slow Roll Buffalo
- BSA Queen City “Clean Waters Fair”

Additional methods to distribute educational materials and information include:

- **Social Media Posts** – posts are developed and posted/distributed through Buffalo Sewer’s existing social media channels. These posts may include some or all of the written materials developed for distribution, updates, and information on public meetings and events.
- **Webpage** – A comprehensive webpage on BSA’s website (<https://buffalosewer.org/construction-projects/queen-city-clean-waters/>) and an interactive website solely dedicated to BSA’s LTCP public brand “Queen City Clean Waters” (<https://buffaloqccw.org/>) was developed and includes the following information:
 - explanation of the changes to the Amended LTCP and the reason for them;
 - information on upcoming public meetings, and how to request special accommodations such as a sign language interpreter;
 - a means to submit comments and questions;
 - an interactive map of the changes in the Amended LTCP to inform residents of the neighborhood specific disruptions and benefits;
 - Project manager contact information (telephone and email) that the public can call/email with questions/comments, and a time period that the Project Manager will set aside to answer project related calls and emails;
 - Copies of the written materials that have been developed, including copies that have been translated into the languages listed in Section 3.2

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Some or all of the following materials will be used to help further explain the WWTF Upgrade Project details to community members, the impact the proposed work will have on their neighborhood during construction, steps being taken to mitigate said impacts, and the positive benefits to the community and environment of the work Buffalo Sewer is undertaking.

- **Brochures** – BSA has a standard tri-fold brochure that has been used on past projects to disseminate information to residents and businesses in the adjacent area (see sample in Figure 3-1). The brochures will provide a description of the project, information on where further detailed information can be obtained (i.e. website, document repository, Buffalo Sewer staff contact information, etc.), be made available at community meetings, document repository locations, and will be made available electronically to interested parties which can be posted on websites or distributed electronically. The brochures will be translated into the languages listed in Section 3.2, which will be made available electronically on the BSA website.
- **PowerPoint Presentations** – in support of the community engagement meetings, a standard PowerPoint presentation has been developed that includes an overview of the project and why it is being completed, a map of the project site, a summary of construction disturbances, a slide depicting work zone traffic control for detours during the Riverwalk closure, and before and after photo renderings.
- **Local Publication Notices** – Common Council Members and local community groups typically have routine emails that are distributed amongst their constituents and members. Buffalo Sewer will reach out to the stakeholders listed in this EPPP and provide a short description of the project and information about public meetings for distribution, as these emails can reach a wide audience. In addition, BSA will include similar information in local newspaper publications, such as The Challenger Community News and Buffalo Rocket Community News. These materials will be translated into the languages listed in Section 3.2, which will be made available electronically on the BSA website.
- **Website Postings** – the applicable notices, brochures, and PowerPoint presentations, along with periodic updates on construction progress, will be posted on the Buffalo Sewer Authority website to make this information available to the public any time. In addition, this information will be shared with stakeholders for posting on their websites.
- **Construction Fencing Wraps / Signage** – BSA developed a fencing wrap that was recently used on the Broadway at Oak RTC project. The purpose of the wrap is to convey the overall project benefits to the community while, at the same time, shielding the community from the “mess” of construction. BSA intends to utilize a similar wrap on this project.

3.2 Language Access

According to the Buffalo Common Council’s website, “approximately 17% of Buffalo residents do not speak English as their primary language and have limited ability to

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read, speak or understand English.” Further, the “seven most common languages spoken in Buffalo by people with Limited English Proficiency and English language learners are:

- Spanish
- Arabic
- Karen
- Somali
- Burmese
- Swahili
- Bengali

Buffalo Sewer is working together with partners from the International Institute of Buffalo to ensure that not only are those materials developed for public outreach produced in accessible, easy-to-read, plain language, but also that they are translated into these seven languages plus French, as many of our residents with Limited English Proficiency, including many whose first language is not included in these initial seven, speak French as a second language.

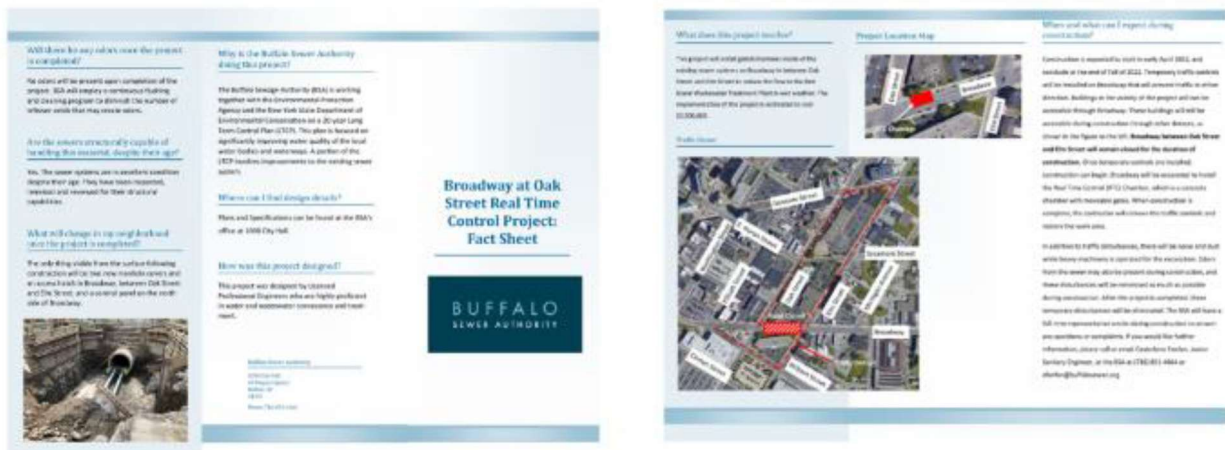


Figure 3-1. Standard Buffalo Sewer Tri-Fold Brochure



Figure 3-2. Future Rendering of the completed Primary Treatment Renovation project, that may be used in presentation materials – aerial view of the new HRD Facility and Odor Control system (circled), north direction



Figure 3-3. Future Rendering of the completed Primary Treatment Renovation project, that may be used in presentation materials – northwest aerial viewpoint from the Niagara River

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Figure 3-4. Sample Construction Banner and Placement Location along Riverwalk

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Section 4 Document Repositories

Document repositories – location points for the public to access written project information and subsequent updates to that information – have been identified as public facilities easily accessible by stakeholders. The repository will contain a copies of information relevant to the proposed project and will be updated regularly. Repositories shall be checked regularly to ensure that there are sufficient quantities of copies available, and no information is missing.

Table 4-1: In-person Document Repositories

| Facility | Address |
|--|---|
| Central Library (Downtown Buffalo) Buffalo & Erie County Public Library | 1 Lafayette Square Buffalo, NY 14203 |
| Crane Branch Buffalo & Erie County Public Library | 633 Elmwood Ave. Buffalo, NY 14222 |
| Dudley Branch Buffalo & Erie County Public Library | 2010 South Park Ave. Buffalo, NY 14220 |
| East Clinton Branch Buffalo & Erie County Public Library | 1929 Clinton Street Buffalo, NY 14206 |
| Elaine M. Panty Branch Buffalo & Erie County Public Library | 633 Elmwood Ave. Buffalo, NY 14222 |
| Frank E. Merriweather, Jr. Branch Buffalo & Erie County Public Library | 1324 Jefferson Ave. Buffalo, NY 14208 |
| Isaias Gonzalez-Soto Branch Buffalo & Erie County Public Library | 280 Porter Ave. Buffalo, NY 14201 |
| Leroy R. Coles, Jr. Branch Buffalo & Erie County Public Library | 1187 E. Delavan Ave. Buffalo, NY 14215 |
| North Park Branch Buffalo & Erie County Public Library | 975 Hertel Ave. Buffalo, NY 14216 |
| Buffalo Sewer Authority Main Office | Room 1038 City Hall 65 Niagara Square Buffalo, NY 14202 |
| Buffalo Sewer Authority Facility Office | Administrative Building Base of West Ferry Street Buffalo, NY 14213 |

Table 4-2: Online Document Repositories

| | |
|---|---|
| BSA Queen City Clean Waters Interactive Website | https://buffaloqccw.org/ |
|---|---|

Section 5 Completed and Ongoing Public Participation Activities

As part of the public participation plan for the Amended LTCP, public outreach efforts have been conducted, and will continue, on the individual projects that are included in the Amended LTCP, including for the WWTF upgrades. As implementation progresses, additional information and opportunities for participation will be provided to the public.

Table 5-1: Completed Public Participation and Outreach Efforts

| Event Type | Stakeholder | Date |
|--|--|--------------------------------|
| BSA-Hosted Virtual Event | Primary Treatment Pre-Advertisement Open House Meeting materials and attendance list: https://buffalosewer.org/primary-treatment-project-open-house/ | January 11, 2024 |
| Community Organization Meeting | Rediscover Riverside | January 17, 2024 |
| Community Organization Meeting | Vision Niagara | March 26, 2024 |
| Community Organization Meeting | Believe in Black Rock | May 6, 2024 |
| Public Agency Event | Buffalo Fire Department Open House - Niagara District | October 5, 2024 |
| BSA-Hosted Stakeholder Advisory Meeting | QCCW Stakeholder Advisory Committee Meeting materials and attendance lists: https://buffalosewer.org/construction-projects/queen-city-clean-waters/ | January 2025-present (monthly) |
| Community Organization Event | Buffalo Niagara Waterkeeper Weekend | May 31, 2025 |
| Council District Meeting | Niagara District | June 12, 2025 |
| BSA-Hosted Virtual Event | Public Participation Forum across all Council Districts | July 12, 2025 |
| BSA-Hosted Community Event | Queen City Clean Waters Fair - Public Participation Forum across all Council Districts More information: https://buffalosewer.org/construction-projects/queen-city-clean-waters/qccw-fair/ | August 29, 2025 |
| Information Sharing and Materials Distribution | Councilmember David Rivera's Office | Periodically |

A sample of meeting materials, including presentations, educational flyers/brochures, meeting minutes, can be found in the **Appendix**.

Together with the Common Council Members, BSA's Queen City Clean Waters Stakeholder Advisory Committee, the Buffalo Board of Block Clubs of Erie County, and other existing partners, Buffalo Sewer will, throughout the implementation of the individual Amended LTCP projects, continually work to identify community-based organizations and community residents specific to the neighborhoods of each individual projects.

Beyond this EPPP, BSA has committed to a continuous public information and participation program throughout the project's implementation. This includes, but is not limited to:

- Hosting project-specific public meetings during early development phases and through the project lifecycle.
- Regularly updating written materials and webpages
- Providing timely updates on project status, changes, and contact information
- Maintaining open channels for public comments and questions
- Planning and hosting the now annual Queen City Clean Waters Fair
- Continuing attendance at committee meetings and events
- Continuing development and 2026 launch of the Community Partnership (Benefits) Program, initially mentioned in the October 2024 LTCP PPP.

Section 6 Distribution of Notice of Complete Application

Distribution of Notice of Complete Application

Once NYSDEC determines the application(s) for the proposed action/project is complete and provides the Notice of Complete Application (NOCA) to the applicant, the applicant will distribute the NOCA and draft permit, if applicable, to any identified interested parties, to provide notification regarding the start of the NYSDEC public comment period and to announce the deadline for submission of written comments to NYSDEC.

Appendix

Can I use the Shoreline Trail during construction?

- The project will require a temporary closure (up to 12 months) of a portion of the Shoreline Trail that runs along the west side of the Bird Island Wastewater Treatment Facility. Extents of the closure are shown below in red.
- A Work Zone Traffic Control Plan has been developed to detour pedestrians and cyclists along Niagara Street between Freedom Park (formerly Broderick Park) and Unity Island Park. Neither park will be impacted by the project.



What else can I expect during construction?

- Construction is scheduled to start in late 2024 / early 2025 and last until 2028.
- Disturbances such as noise and dust are possible while heavy machinery is in operation.
- Sewage odors may also be present during construction. These temporary disturbances will be minimized as much as possible.

Where can I find more information?

If you would like further information, please call or email Timothy Blake, Treatment Plant Capital Improvements Department, at the Buffalo Sewer Authority at (716) 851-4664 or tblake@buffalosewer.org.

Our website has information about the Long Term Control Plan and current construction projects:
www.buffalosewer.org

Buffalo Sewer Authority

1038 City Hall
65 Niagara Square
Buffalo, NY 14202

Phone: 716-851-4664



Primary Treatment Renovation at Bird Island Wastewater Treatment Facility

Project Information

BUFFALO
SEWER AUTHORITY

Why is the Buffalo Sewer Authority doing this project?

The Buffalo Sewer Authority is working together with the United States Environmental Protection Agency and the New York State Department of Environmental Conservation on a Long Term Control Plan (LTCP). The LTCP identifies projects that will improve water quality of local water bodies and waterways. This once in a generation project is part of the LTCP to improve the existing primary treatment system.

What are the project goals and community benefits?

- Protect Public Health and the Environment
- Improve Water Quality for the Niagara River
- Modernize the Treatment Facility with necessary upgrades
- Implement an Odor Control system for the Primary Sedimentation Tanks to mitigate odor emissions
- Commitment to Economic Growth with supplier diversity and local workforce

How is this project being funded?

The construction costs of this project are anticipated to be worth \$70—\$80 million. The project has received State and Federal Funding to ensure affordability to ratepayers.

What is included in the renovations?



1. Primary Sedimentation Tanks Upgrades
2. Sludge Pumping Station Upgrades
3. New Odor Control
4. New High-Rate Disinfection System
5. Bypass Structure Gates Replacement
6. Outfall 001 Repair





Primary Treatment Renovation at Bird Island Wastewater Treatment Facility

Informational Session for Upcoming Request for Construction Bids

BUFFALO
SEWER AUTHORITY

 **GREELEY AND HANSEN**
A TYLin Company

January 11, 2024

Housekeeping



Online
Meeting



You are
Muted



Chat
Box



Live
Q&A



Meeting
Recorded

The presentation and attendee list will be shared with all attendees.



Safety Minute - Ladders



Portable ladders are one of the leading causes of occupational fatalities and injuries

Step, straight, combination, and extension | OSHA 1926.1053



- ✓ Avoid electrical hazards
- ✓ Inspect ladder for damage
- ✓ Maintain a 3-point contact
- ✓ Extend ladder at least 3 feet above the point of support
- ✓ Place base of ladder $\frac{1}{4}$ of the working length of the ladder from the wall or vertical surface
- ✓ Engage all locks on the ladder



- ✗ Do not use the top step
- ✗ Do not stand on the top 3 steps
- ✗ Do not exceed the ladders maximum load

Safety First!

Safety is a high priority for us and we practice it daily throughout our organization. We have found that high safety standards translate into high efficiency results in the field. Buffalo Sewer Authority puts SAFETY FIRST, assuring a safe environment for our employees and customers.

It is our mission to maintain a working environment where every employee, new and seasoned, takes responsibility to implement, enforce and model all safety guidelines in everything they do. Each new employee must attend an extensive orientation and safety training program.



Objectives of this Meeting

- ➔ Provide information on Buffalo Sewer Authority's upcoming Construction Services RFP: Primary Treatment Renovation at Bird Island WWTF
- ➔ Review expectations of contract requirements, including meaningful D/M/WBE engagement
- ➔ Provide networking opportunities and encourage teaming prior to bid advertisement. Center Disadvantaged Business Enterprise (DBE) firms.
- ➔ Provide brief overview of upcoming Buffalo Sewer Authority construction contracts
- ➔ Question & Answer

Agenda

- ➔ Introductions & Welcome
- ➔ Contracting Equity
- ➔ About Buffalo Sewer Authority
- ➔ LTCP/NFA at Bird Island WWTF
- ➔ Project Background, Summary of Work, & Constraints
- ➔ Contract Administration & Requirements
- ➔ Project Schedule: Procurement & Construction
- ➔ Future Buffalo Sewer contracts to be advertised in 2024-2028
- ➔ Feedback and Q&A Session

Presenters



(OWNER)

- **Tim Blake**
WWTF Capital Projects Manager
- **Rosaleen Nogle, PE, BCEE**
Principal Sanitary Engineer



GREELEY AND HANSEN

A TYLin Company

(DESIGN CONSULTANT)

- **Walt Walker, PE, ENV SP**
Project Manager
- **Ryan Christopher, PE, ENV SP**
Deputy Project Manager

Networking and Follow-Up Site Visit

Presentation and attendee list will be share with attendees after this meeting.

Networking for teaming partners is encouraged!

An optional site visit to Bird Island WWTF can be scheduled the Week of January 22-26 at 9:00am each day. Advance notice required, email: walt.walker@greeley-hansen.com

Register to receive the presentation (if you haven't already):

forms.office.com/r/Bv6xJVN5eD



- Name
- Company
- Email
- Prime/Subcontractor/Vendor/Undecided
- DBE (Y/N)
- Trade / Specialty

Contracting Equity & Supplier Diversity: DBE/MBE/WBE inclusion at BSA

- Create economic opportunity for DBE/MBE/WBE firms, including firms who are new to working with BSA and/or the City of Buffalo
- Promote meaningful teaming arrangements, mentorship, and partnership between established, experienced firms and new and/or smaller firms
- For the Primary Treatment Renovation Construction Services contract:
 - **DBE utilization goal of 20%** of total value of the contract
 - DBE must be certified in New York State as a DBE
 - Utilization of Erie County certified M/WBE firms is encouraged

Contracting Equity: DBE Inclusion Plans and Resources

- A DBE Utilization Plan **must** be submitted with your Bid Proposal Package:

<https://efc.ny.gov/system/files/documents/2023/02/dbe-utilization-plan.docx>

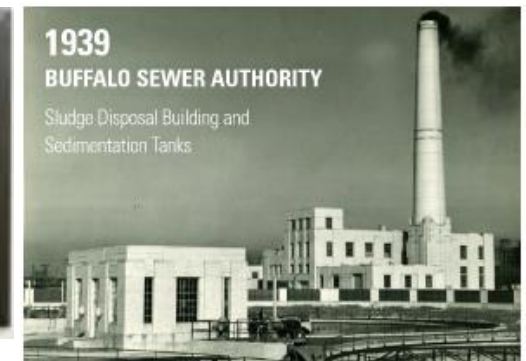
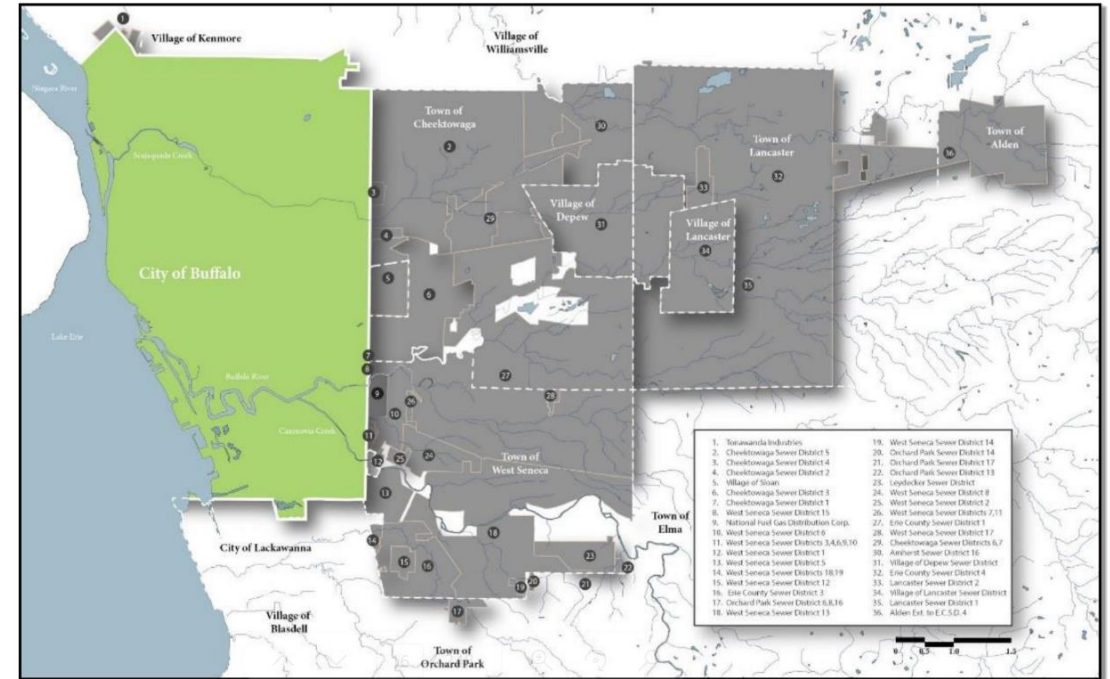
- Prime contractor must utilize DBE suppliers/subcontractors that are certified on behalf of the New York State Unified Certification Program:

<https://nysucp.newnycontracts.com/>

- We are looking for Plans that are:
 - Reflecting a good-faith effort
 - Realistic and meaningful

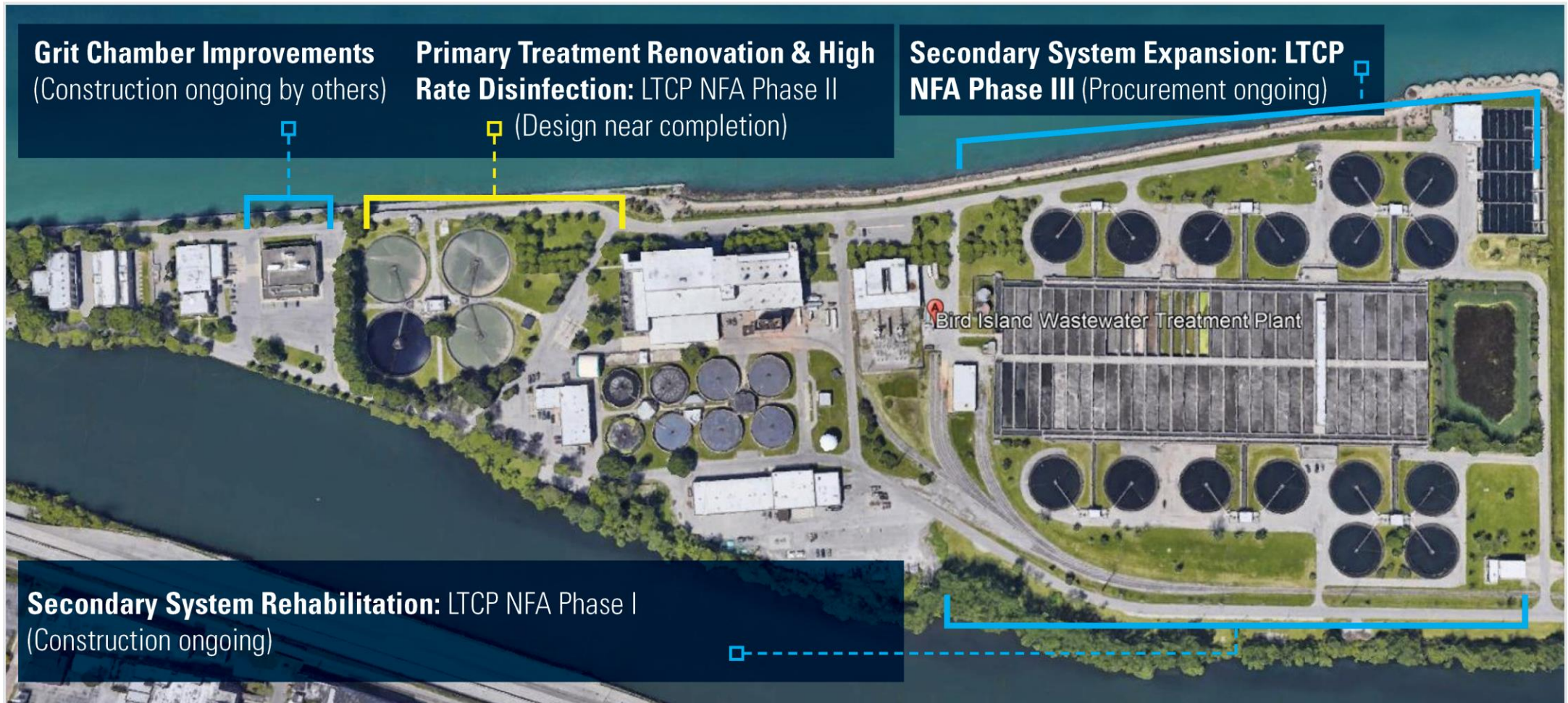
About Buffalo Sewer Authority and the Project

- The Buffalo Sewer Authority (BSA) provides wastewater service to approximately 550,000 people. The Authority owns and operates the Bird Island WWTF
- As part of the approved 2014 LTCP **No Feasible Alternative (NFA)**, the Authority committed to:
 - Renovate the primary treatment system at 160 MGD, with capacity for increased disinfection of flows as needed
 - Restore the full secondary treatment capacity up to 360 MGD, and in the future designing for peak capacity up to 400 MGD
- Once-in-a generation upgrade and rehabilitation of the Bird Island WWTF primary treatment system




Buffalo Sewer Authority – Bird Island WWTF

IMPROVING FACILITY PROCESSES AND MEETING LTCP TO ADDRESS THE AUTHORITY'S NFA ALTERNATIVE C2




Buffalo Sewer Authority LTCP NFA Goals

- Advancement of NFA Schedule and Expediting Completion w/ Funding In Place

 Secondary System Rehabilitation (Phase I) – replacement of aeration system and restoration of capacity from 320 MGD to 360 MGD. Construction Start in September 2022. Ongoing.

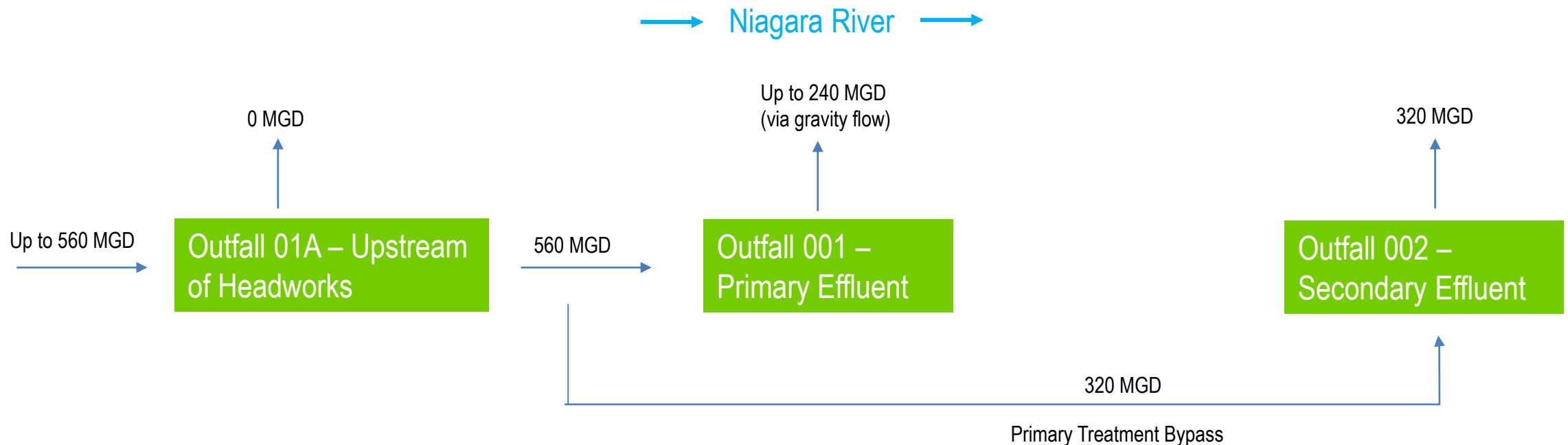
 **Primary Treatment Renovation (Phase II) – Engineering design ongoing. Construction Start scheduled for Summer/Fall 2024.**

 Secondary System Expansion (Phase III) – increase of secondary system treatment capacity from 360 MGD to 400 MGD. Engineering Design Start in Q1 2024. Construction Start in Q4 2026.

- Protect Public Health, Water Quality, and Environment
- Compliance with Regulatory Requirements to Achieve LTCP/NFA Goals
- Affordability to Ratepayers and the Authority – State and Federal Funding
- Modernize the Treatment Facility and Improve Efficiency
- Community Benefits
 - Improved Water Quality for Niagara River
 - Odor Control
 - Increased Community Engagement + Public Understanding of Water Infrastructure
 - Commitment to Economic Growth, Supplier Diversity, and Local Workforce

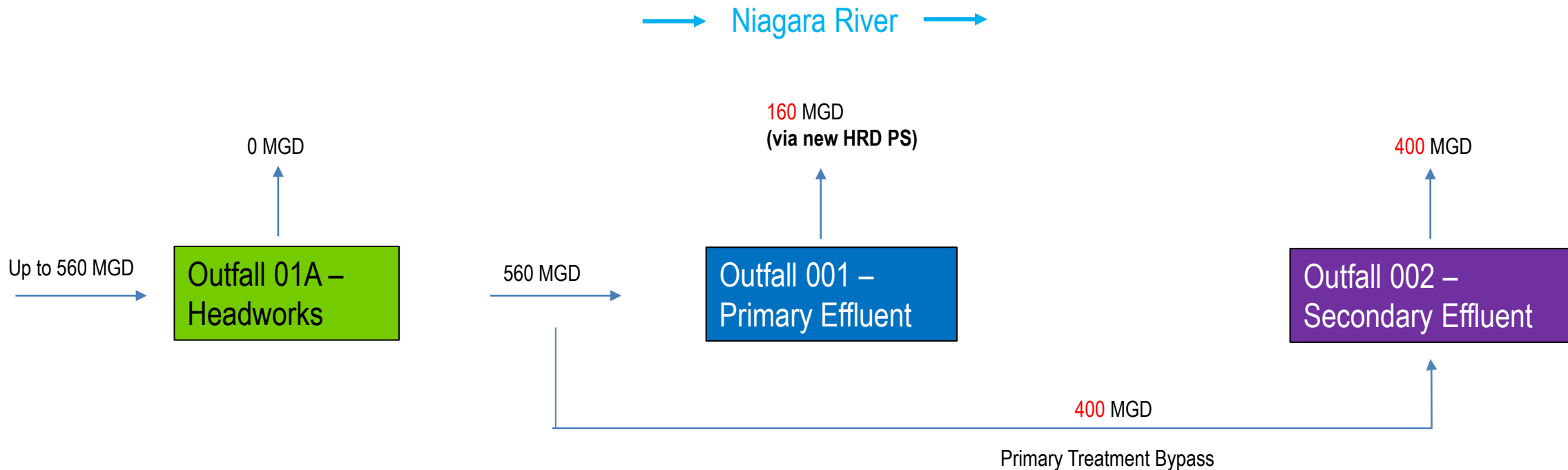
Existing Conditions during Peak Wet Weather (Present)

- During normal operating conditions, Primary Treatment throughput is 160 MGD
- Secondary Treatment capacity currently limited to ~320 MGD
- During peak wet weather conditions (partial treatment mode), excess flows are discharged through partial treatment primary Outfall 001



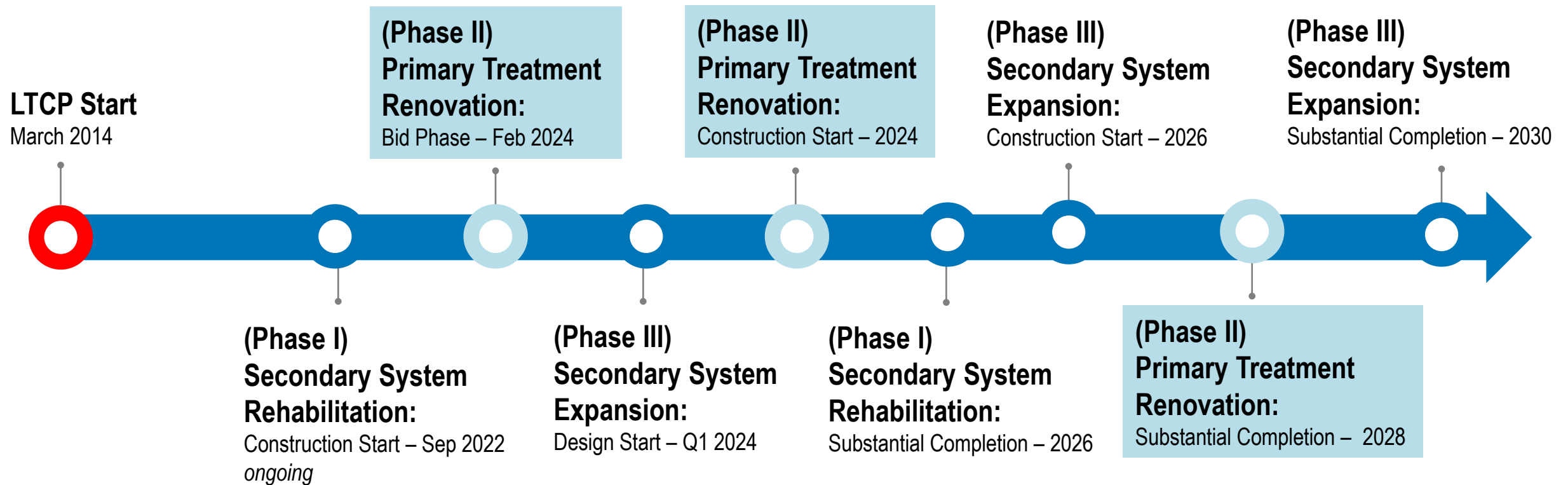
Ultimate System Buildout – Peak Wet Weather Conditions (2029)

- Primary Treatment Renovation, and Secondary System Rehabilitation and Upgrades completed
- Primary Treatment Capacity maximum throughput of 160 MGD; Secondary Treatment Capacity increased to 400 MGD



Bird Island WWTF

NFA Capital Projects Timeline



PRIMARY SYSTEM REHABILITATION AND UPGRADES PROJECT OVERVIEW



1 Primary Sedimentation Tanks

- » New sludge and scum collection equipment
- » Improved efficiency for sludge settling and removal
- » Concrete repair and coating for corrosion protection
- » Safety improvements with new handrail and toeboards

2 Sludge Pumping Station

- » New pumps, piping, and valves
- » New HVAC equipment to meet current ventilation codes and standards
- » New electrical and control equipment for improved automation and operations flexibility
- » Concrete and masonry repair and improvements while maintaining original building design
- » New personnel spaces and lighting

3 Odor Control

- » New effluent trough covers for the Primary Sedimentation Tanks
- » Odor capture at various chambers
- » New FRP piping to convey odorous air to odor control units for treatment prior to being released into the atmosphere

4 High-Rate Disinfection System

- » New Chlorine Contact Tank provides 5 minutes of contact time at 160 MGD
- » High-Rate Disinfection Building includes chemical storage and feed equipment
- » Five new 40 MGD submersible pumps to convey disinfected Primary Effluent through Outfall 001 to the Niagara River

5 Bypass Structure Gates

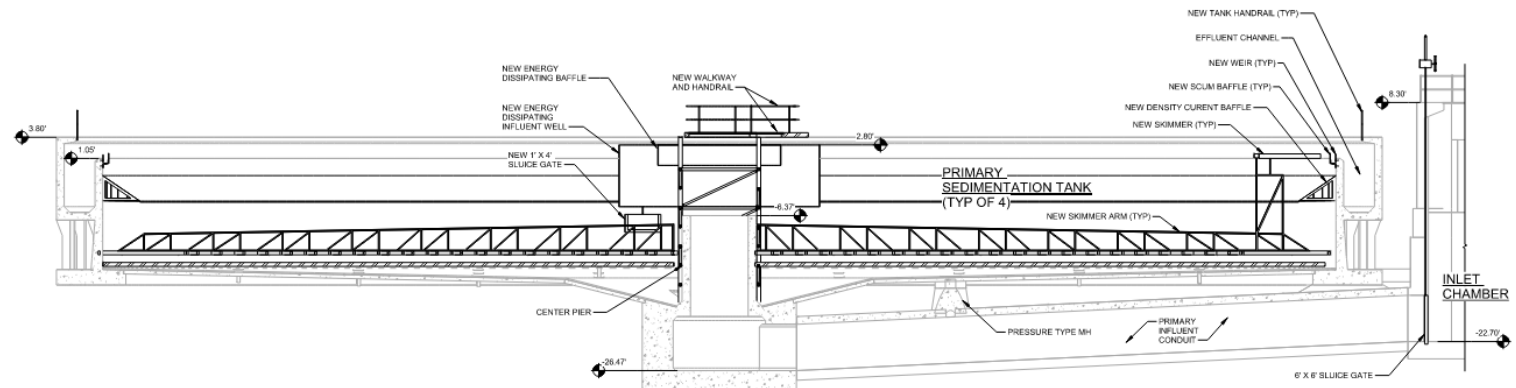
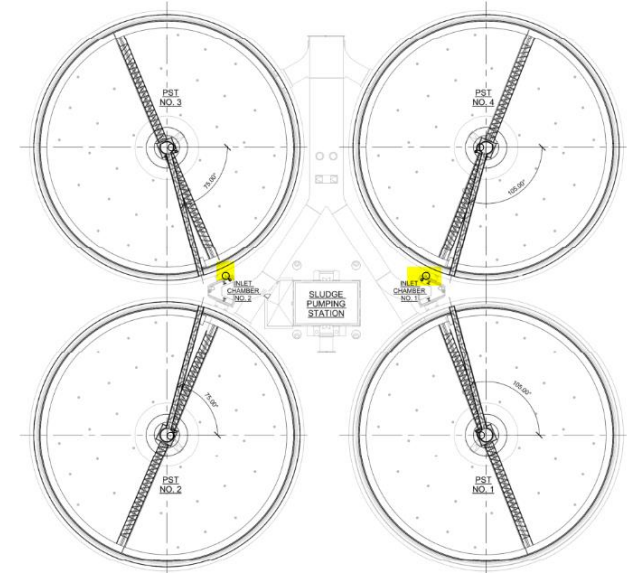
- » Gate 17 installed with new actuator
- » New gates and actuators to automate wet weather sequences and provide operational flexibility for Authority staff

6 Outfall 001 Repair

- » Restoration of multi-use riverwalk/trail
- » Installation of landscaping along public-facing utility bike/pedestrian path along Niagara River
- » Repairs to Outfall 001 overflow structure, and connection of HRD pump station pipe to the outfall structure

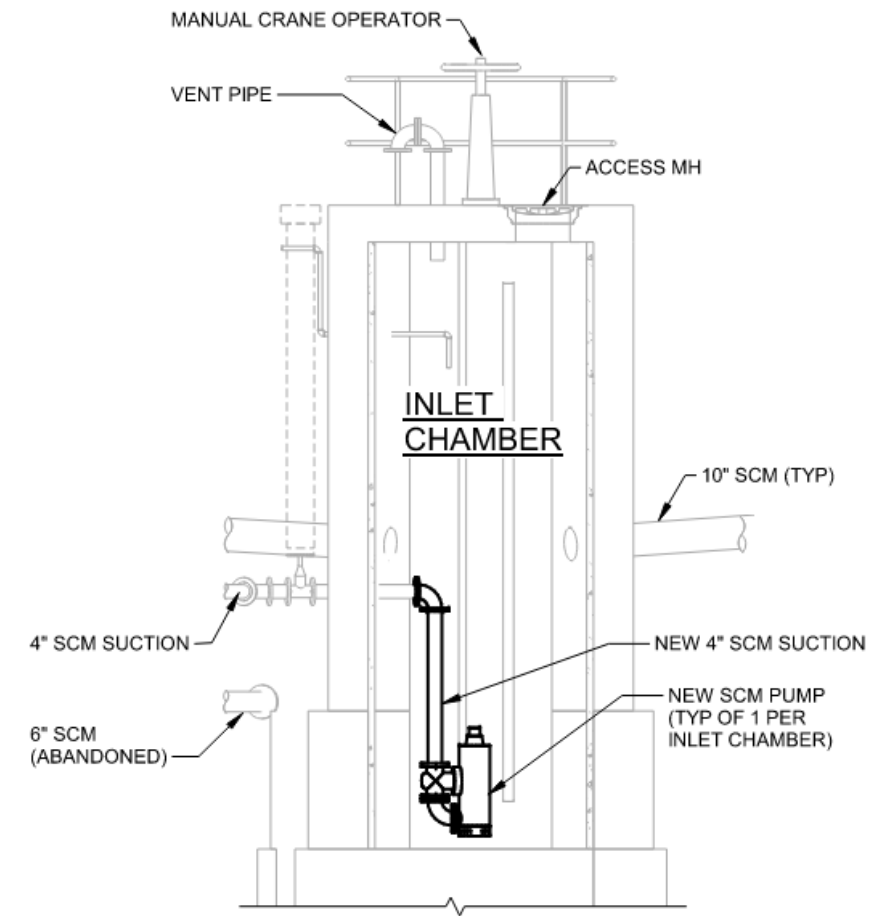
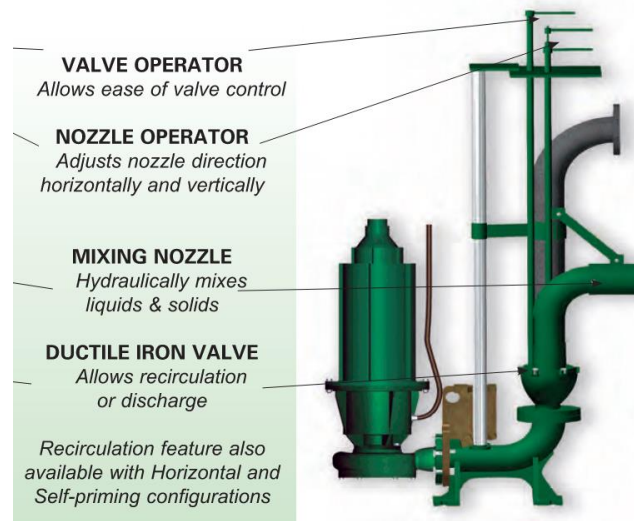
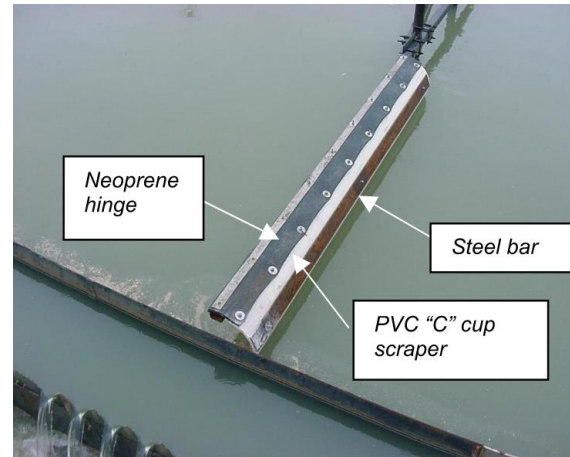
Primary Sedimentation Tanks Upgrades

- New Clarifying Equipment
 - New Sludge and Scum Collection Equipment
 - Density Current Baffles
 - Energy Dissipating Inlets
 - Replace GW relief valves
 - New Scum Trough, Beach
 - Effluent Weir Covers – Odor Control
- Structural Repairs
 - GW Relief Valve Replacement
 - Concrete Crack / Spall repairs
 - Concrete Coating Inlet Chamber Repairs
 - Inlet Chamber & Scum Well Repairs
- Electrical
 - New Area Lighting
 - SwivelPole Type at PSTs and PST Walkway
- New Handrails around PSTs
- Davit Mounts
- Inlet Chamber / Scum Well Handrails Left in Place



Scum Collection

- Operation
 - Automatic Based on Level
- Submersible Recirculation Pumps
- Scum Collection Equipment
 - Increase Scum Beach and Trough Length
- Scum Collection Equipment
 - Scum Beach to be Mostly Submerged
 - Hinged Scum Skimmer Arm



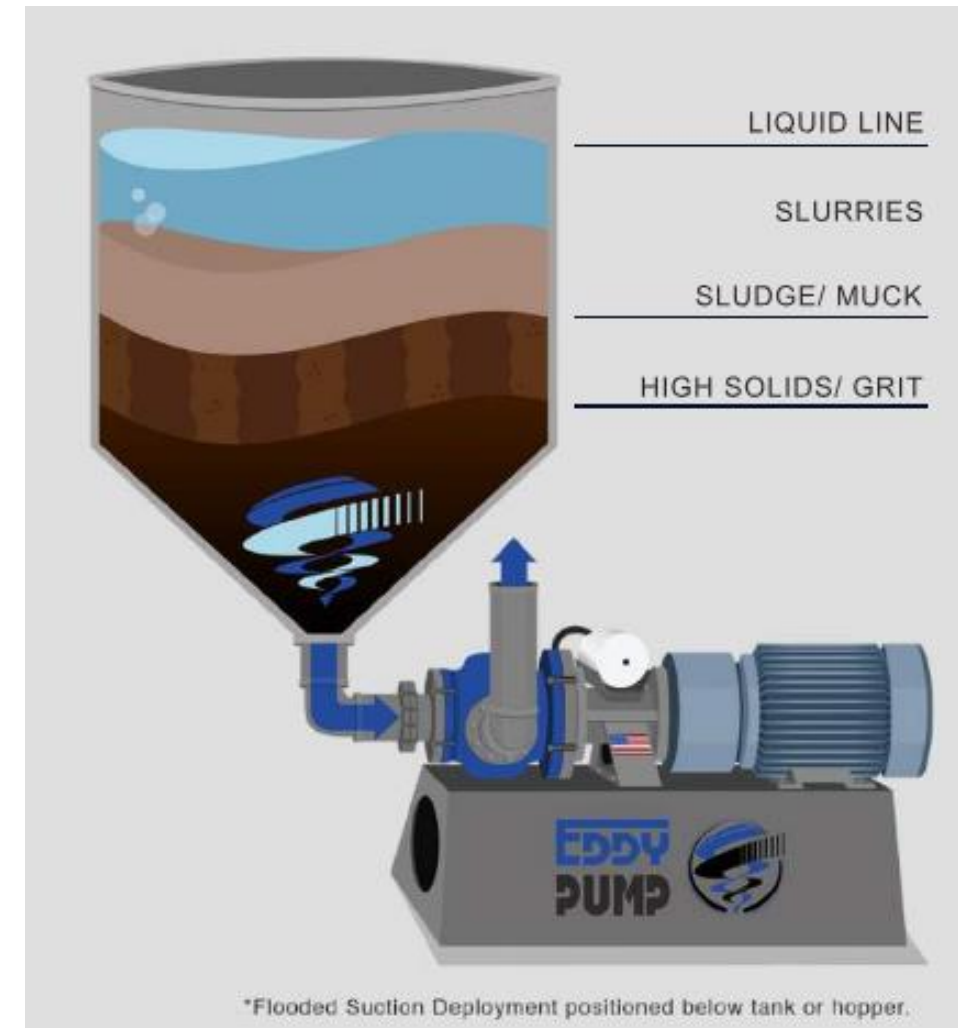
Sludge Pumping Station

- Full Building Renovation – Masonry and Building Repairs
- New Sludge Pumps w/ Grinders
- New Drainage Pumps
- New Piping and Valves
- New Plumbing and HVAC
- New Bridge Crane
- Location of New MCC
- Renovated Electrical Control Room

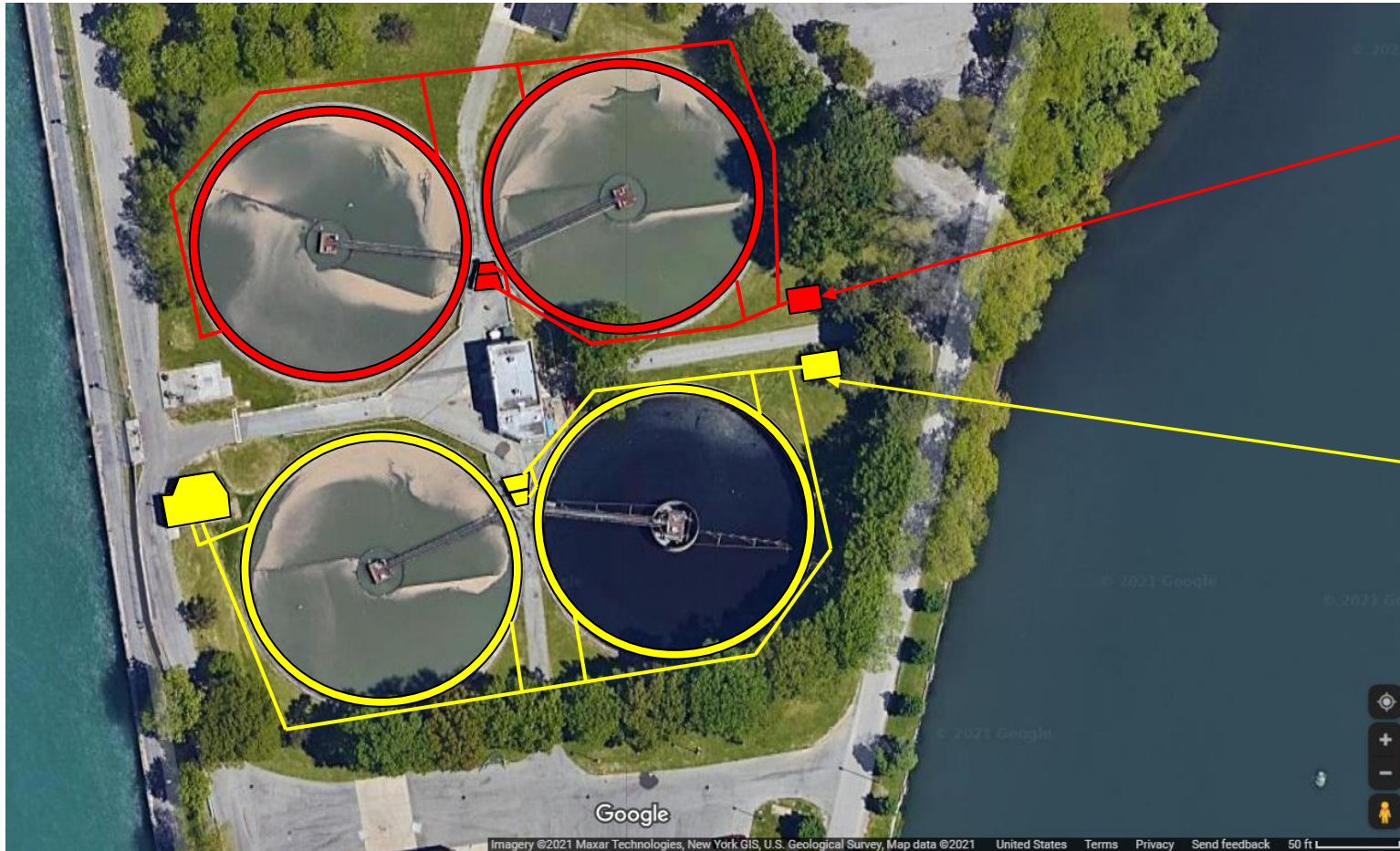


Sludge Pumping Station

- Operation
 - Pumps to Operate Automatically Based on Timer and Sludge Density Meters
 - Manual Valve Actuation
- Primary Sludge Pumps
 - Eddy Pumps
- Sludge Monitoring
 - Sludge Density Meters
- Drainage Pumps
 - Dry Pit Submersible with Control Panel on Upper Level
 - Operated Based on Level



Odor Control System Layout



Odor Control System to Treat North Inlet Chamber and Effluent Channels of Primary Sedimentation Tanks 1 and 4

Odor Control System to Treat Bypass and Control Chamber, South Inlet Chamber, and Effluent Channels of Primary Sedimentation Tanks 2 and 3

Odor Control Approach

- **Hybrid system (carbon column + biotrickling filter).** Benefits:
 - Reduced frequency of carbon media replacement
 - Reduced carbon media replacement costs
 - More effective for treating large range of H_2S concentrations that BSA experiences
- Pulling air from Bypass and Control Chamber, PSTs, and Inlet Chambers
 - Two draw-offs on south side of chamber
- At PSTs
 - Launder covered along the perimeters
 - Two draw-off points per PST approximately 180° apart from each other
- At Inlet Chambers
 - Draw-offs from scum well and influent chamber



High-Rate Disinfection (HRD) Pump Station and Chlorine Contact Tank

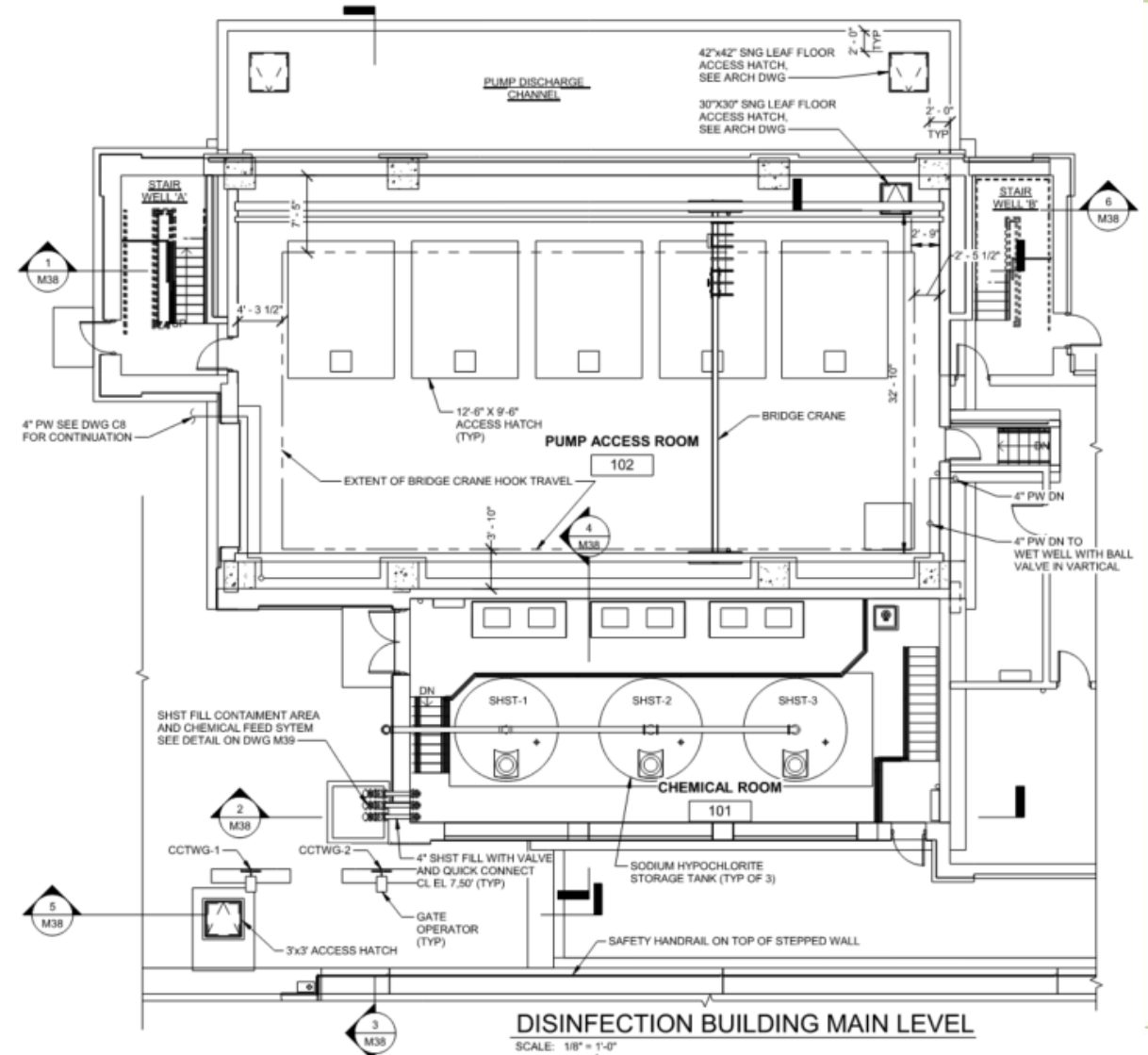
- 160 MGD max throughput
- To be operational only during Partial Treatment mode
- Once connected to Outfall 001, the existing Sodium Hypo Building would be decommissioned



Future Rendering of New HRD Facility

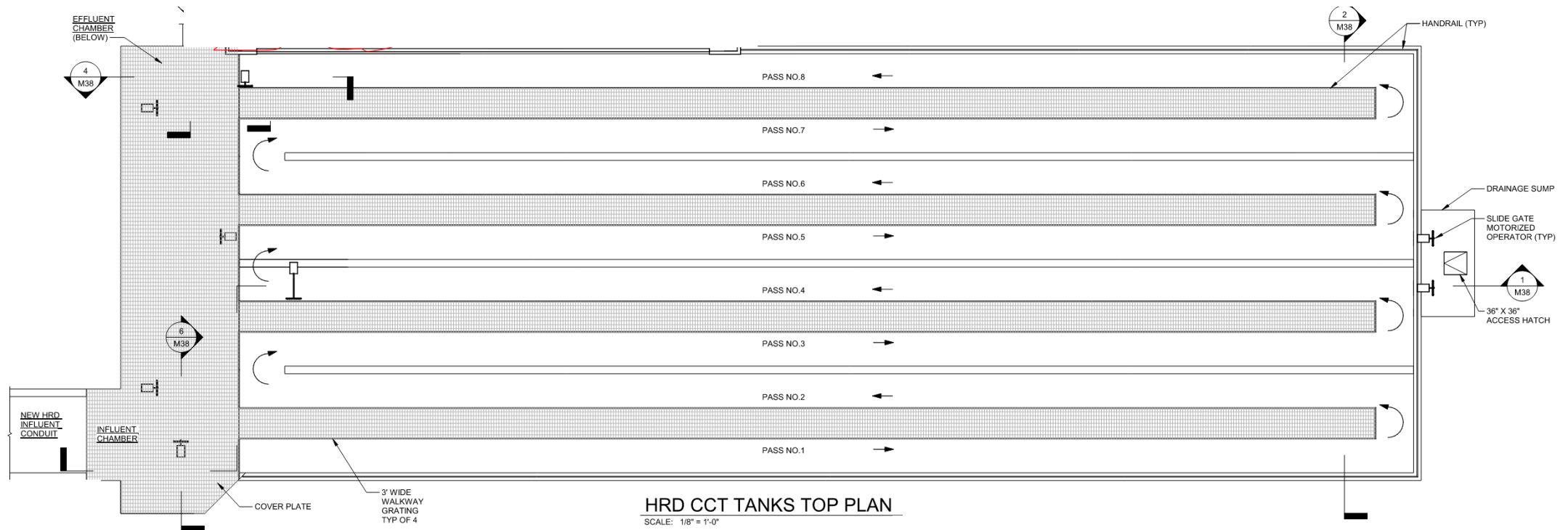
HRD Pump Station

- Pumping Station
 - 160 MGD firm capacity
 - Five 40 MGD Submersible Pumps
 - 3 Pumps on VFD, 2 constant speed
- Chemical Feed and Storage
 - Three 11,200 gallon storage tanks
 - Chemical feed pumps

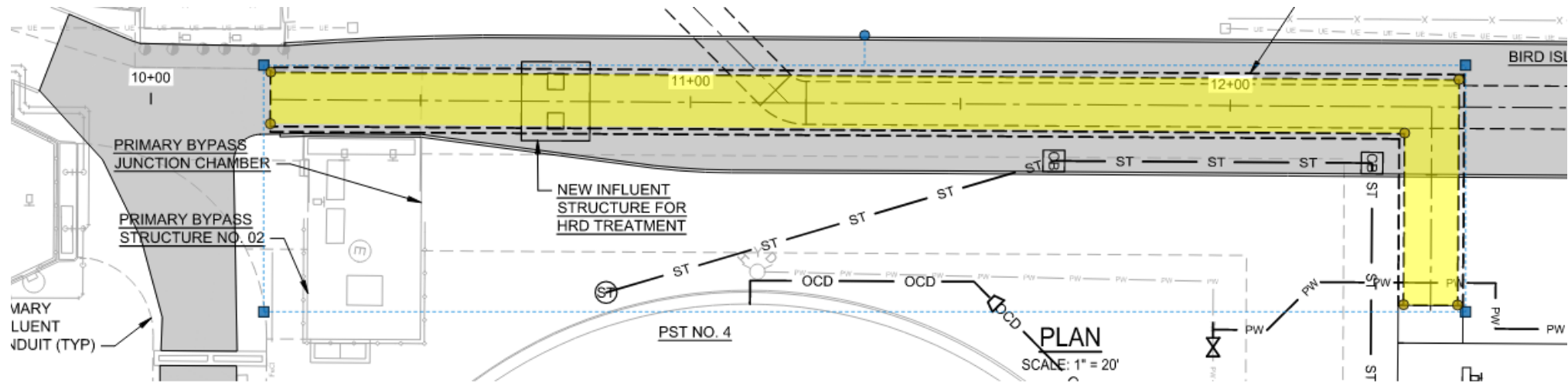


HRD Chlorine Contact Tank

- 5-minute contact time:
 - Channel Width: 6 ft
 - Channels Length: 120 ft
 - Water Depth: ~13 ft



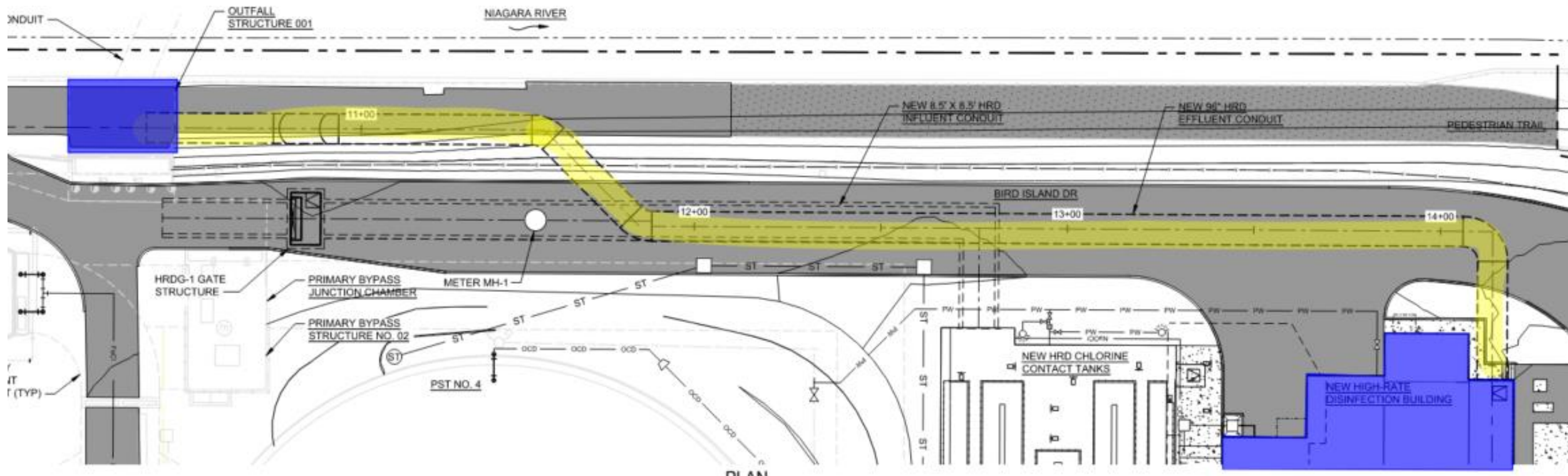
Influent to HRD Conduit



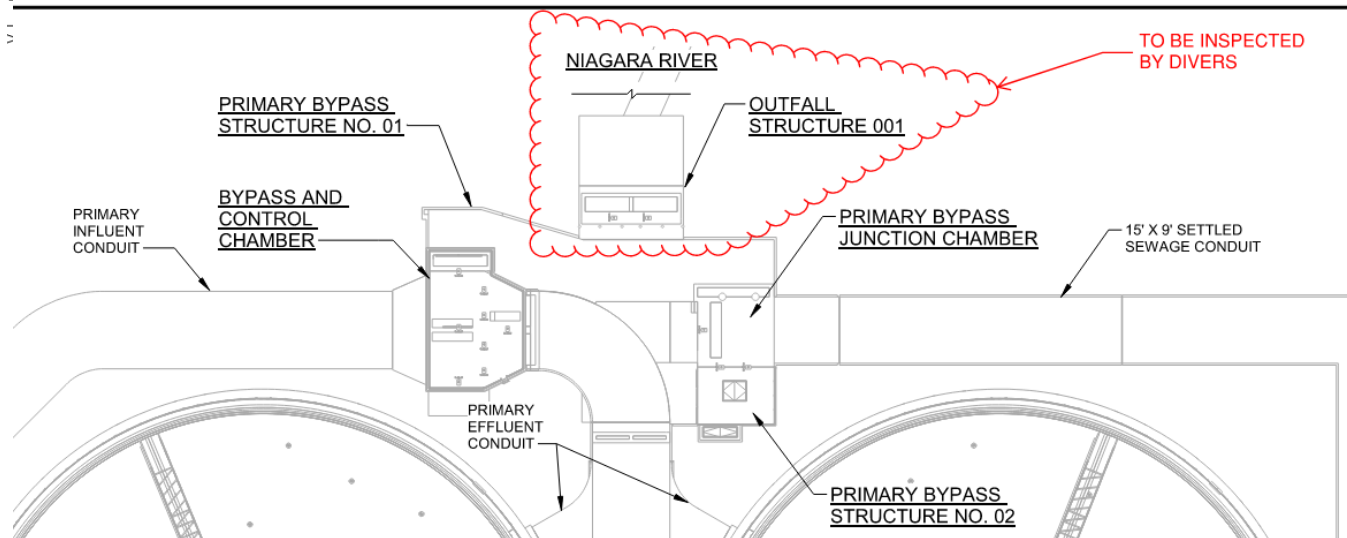
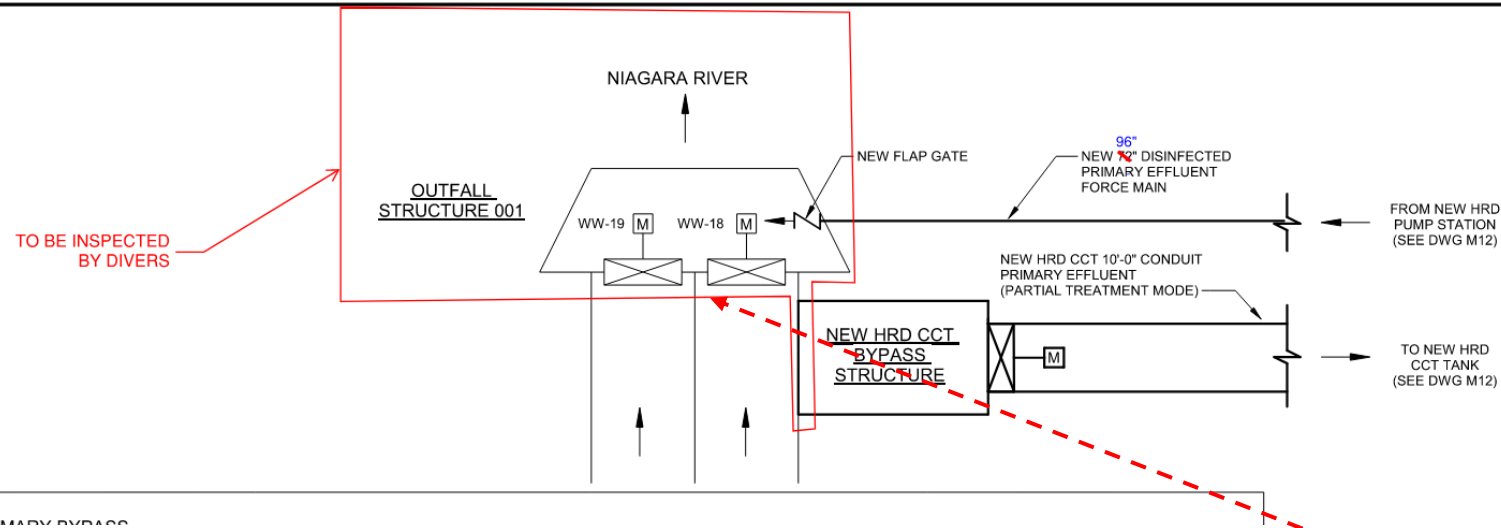
- Flow
 - Gravity
 - Average Flow: 74 MGD
 - Max Flow: 160 MGD
- Size
 - 8.5'x8.5'
- Structural
 - Material: Cast in Place Concrete
 - Steel piles

Outfall 001 Repair and Connection to HRD

- The HRD Pumping Station force main will tie into the existing Outfall 001 structure.
- The existing Outfall 001 overflow structure and conduit was inspected to verify they are structurally competent to facilitate the proposed renovation.



Outfall 001 Access



What to Expect: Project Constraints and Site Coordination



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Maintenance of Plant Operations

- Limitations in shutdown of the 4 Primary Tanks – typically one at a time
- Understanding Duration of Plant and Tank Shutdowns
- Flexibility of Wet Weather Capacity in either Primary or Secondary Treatment
- Contract B: Replacement of Gate WW-17 must occur first
- Limit Any Potential Discharge Permit Violations/Conflicts
- Riverwalk/Shoreline trail shutdown due to Outfall 001 repair: communication & coordination with City DPW and community
- Large deliveries shall occur at North Gate Entrance (via International Railroad Bridge)
- Coordination with other ongoing Contracts: Secondary Systems Rehab (Phase I), Secondary System Expansion (Phase III), and others



Major Work and Coordination items

- HRD PS and CCT
 - Deep Excavation and Dewatering for Dewatering
 - Electrical power supply from MegaStructure/Substation
 - The new facility itself – Pump station, CCT, and influent and effluent conduit
 - Connection to Outfall 001
- Replacement of Gate WW-17
- Instrumentation & Controls Coordination w/ Ovation
- Primary Tank Structural Repair and Mechanical Replacement
- Gut renovation of the Sludge Pump Station – new pumps, relocated process lines and MCC
- Long lead items: Sludge and HRD pumps, MCCs, clarifier mechanisms, odor control equipment, WW gates





Contract Administration & Requirements

Funding, Contract Packaging, and Contractor Requirements

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A TYLin Company

Contract Packaging

The work is divided into two Contracts, A and B. Bidder may propose on either Contract A or Contract B.

- **Contract A – Primary Settling Tanks and Sludge Pumping Station**
 - Primary Sedimentation Tanks and Sludge Pumping Station Renovation; Installation of New Odor Control System; Demolition of equipment in the existing Bypass SH Facility.
- **Contract B – New Chlorine Contact Tanks and High-Rate Disinfection (HRD) System**
 - New High-Rate Disinfection Chlorine Contact Tank, High-Rate Disinfection Building, a new connection and renovations to the existing Outfall Structure 001, HRD Influent and Effluent Conduits, modifications to the existing Bypass and Control Chamber and Primary Bypass Junction Chamber, replacement of gates at the Bypass and Control Chamber, Primary Bypass Structure No. 1 and 2.
 - Replacement of gates WW-15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, and 26
- **The Bidder may propose the bid alternate identified as Contract C (Combined Bid for Contracts A+B).** If a Bidder proposes on Contract C, they must also provide proposals for Contract A and B.
- The Bidder understands that after a Contract is awarded, the Authority may select the bid alternate. The proposed prices for the bid alternate may or may not be considered in determination of the lowest bid.

Scope of Work – Measurement and Payment

- Lump Sum Items (Contract A)
 - Renovations to the Primary Sedimentation Tanks, Sludge Pumping Station, Odor Control system, demolition of equipment in the Bypass SH Facility, and associated equipment, material, and labor.
 - Negotiated Price: Emerson equipment and integration for the equipment associated with the Primary Sedimentation Tanks, Sludge Pumping Station, and Odor Control System.

Scope of Work – Measurement and Payment

- Lump Sum Items (Contract B)
 - Construction of a new Chlorine Contact Tank and High-Rate Disinfection Building,
 - a new connection and renovations to the existing Outfall Structure 001, HRD Influent and Effluent Conduits,
 - modifications to the existing Bypass and Control Chamber and Primary Bypass Junction Chamber,
 - replacement of WW gates at the Bypass and Control Chamber and Primary Bypass Structure No. 1 and 2
 - Negotiated Price: Emerson equipment and integration for the equipment associated with the High-Rate Disinfection System.

Scope of Work – Measurement and Payment

- Unit Price Items
 - Additional earth excavation (Per CY)
 - Additional select fill (Per CY)
 - Additional Class B Concrete (Per CY)
 - Additional Steel Reinforcing (Per LB)
 - Additional Pile Length (Per LF)
 - Additional re-pointing of existing masonry (Per SF)
 - Removal of damaged brick and installation of matching brick (Per SF)
 - Removal of damaged floor tile and installation of matching floor tile (Per SF)
- Allowance
 - Allowance for the handling, removal, and legal disposal of unanticipated hazardous and non-hazardous (regulated) waste.
 - Allowance for the handling, removal, and legal disposal of unanticipated impacted soil and groundwater.
 - Allowance for the repair of existing pipelines.

Funding for Primary Treatment Renovation Project

- Overall Projected Construction Cost: \$70-80 Million
 - Contract A: \$20-25M
 - Contract B: \$50-55M
- Project funding secured from State and Federal dollars, interest-free state and federally-backed loans, low interest state-backed loans, and grants (CWSRF, BIL, WIIA, WQIP, NYSERDA)
- Administered through NYSDEC and NYSEFC
- NYSEFC Terms & Conditions will govern – **get familiar with EFC requirements**
- **Compliance for the entirety of the construction contract is critical**
- 20% Disadvantaged Business Enterprise (DBE) Utilization Goal



State Revolving Loan Fund DBE Requirements

- Contractor agrees to make documented **Good Faith Efforts** to utilize at least 20% of total value of the contract to NYS-certified DBEs.
- Prime contractor must utilize DBE suppliers/subcontractors that are certified on behalf of the New York State Unified Certification Program. [NYSUCP \(newnycontracts.com\)](http://nysucp.newnycontracts.com)
- Prime contractors certified as DBE as per the above can use their self-performance towards fulfilling the DBE participation goal.
- Awarded contractor will be required to submit Quarterly DBE reports and proof of payments to DBEs throughout the term of the contract.
- Contractor should also continue **Good Faith Efforts** to seek opportunities for DBE participation during the life of the contract even if proposed fair share objectives have been achieved.
- **DBE utilization plan must be submitted with Bid Package to be considered**
<https://efc.ny.gov/mwbe-forms> / [dbe-utilization-plan.docx \(live.com\)](http://dbe-utilization-plan.docx)

**NYS Environmental Facilities Corporation
Disadvantaged Business Enterprise (DBE) Utilization Plan**

| SECTION 1: MUNICIPAL INFORMATION | | | |
|---|--|--|---|
| Recipient/Municipality: <input style="width: 100%;" type="text"/> | | County: <input style="width: 100%;" type="text"/> | |
| Project No.: <input style="width: 100%;" type="text"/> | Contract ID: <input style="width: 100%;" type="text"/> | Registration No. (NYC only): <input style="width: 100%;" type="text"/> | |
| Minority Business Officer: <input style="width: 100%;" type="text"/> | Email: <input style="width: 100%;" type="text"/> | Phone #: <input style="width: 100%;" type="text"/> | |
| Address of MBO: <input style="width: 100%;" type="text"/> | | | |
| Electronic Signature of MBO: <input style="width: 100%;" type="text"/> | | | Date: <input style="width: 100%;" type="text"/> |
| <input type="checkbox"/> I certify that the information submitted herein is true, accurate and complete to the best of my knowledge and belief. | | | |

| SECTION 2: PRIME CONTRACTOR / SERVICE PROVIDER INFORMATION | | | | |
|--|---|--|--|---|
| Firm Name: <input style="width: 100%;" type="text"/> | | | Contract Type: <input type="checkbox"/> Construction <input type="checkbox"/> Other Services | |
| Is the Prime Firm certified as a DBE? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, please include Prime information in Section 3. | | | | |
| Address: <input style="width: 100%;" type="text"/> | | Phone #: <input style="width: 100%;" type="text"/> | | Fed. Employer ID #: <input style="width: 100%;" type="text"/> |
| Description of Work: <input style="width: 100%;" type="text"/> | | | Email: <input style="width: 100%;" type="text"/> | |
| Award Date: <input style="width: 100%;" type="text"/> | Start Date: <input style="width: 100%;" type="text"/> | Completion Date: <input style="width: 100%;" type="text"/> | DBE Fair Share Objective | PROPOSED DBE Participation |
| Total Contract Amount: \$ <input style="width: 100%;" type="text"/> | | | Total: 20% \$ <input style="width: 100%;" type="text"/> | Total: <input style="width: 100%;" type="text"/> % \$ <input style="width: 100%;" type="text"/> |
| DBE Eligible Contract Amount: \$ <input style="width: 100%;" type="text"/> (DBE Fair Share Objectives are applied to this amount and includes all change orders, amendments, & specialty waivers) | | | | |
| If fair share objectives are not met, documentation must be attached: <input type="checkbox"/> No Participation <input type="checkbox"/> Short of the DBE Fair Share Objective | | | | |
| <input type="checkbox"/> Specialty Equipment/Services: must be of SIGNIFICANT cost – attach list of cost and type of equipment and good faith effort documentation | | | | |

| SECTION 3: DBE SUBCONTRACTOR INFORMATION | | | |
|---|--|---|---|
| This Submittal is: <input type="checkbox"/> The First/Original Utilization Plan <input type="checkbox"/> Revised Utilization Plan #: <input style="width: 100%;" type="text"/> | | | |
| DBE Subcontractor Information | | Contract Amount | For EFC Use: |
| Business Name: <input style="width: 100%;" type="text"/> | Fed. Employer ID#: <input style="width: 100%;" type="text"/> | <input style="width: 100%; height: 100%;" type="text"/> | <input style="width: 100%; height: 100%;" type="text"/> |
| Address: <input style="width: 100%;" type="text"/> | Phone #: <input style="width: 100%;" type="text"/> | | |
| Scope of Work: <input style="width: 100%;" type="text"/> | Email: <input style="width: 100%;" type="text"/> | | |
| Certifying Entity: <input type="checkbox"/> DOT in State of _____; or <input type="checkbox"/> SBA <input type="checkbox"/> Other (indicate entity): <input style="width: 100%;" type="text"/> | | | |
| Full Contract Amount \$ <input style="width: 100%;" type="text"/> | | | |
| | | | |

Contract Administration

- BSA will follow up with attendees at this meeting when the bid advertisement goes live
- Bid Advertisement will also be posted on BSA's RFP/Procurement Opportunities page: <https://buffalosewer.org/category/vendor-opportunities/vendor-opportunities-vendor-opportunities/>
- Become a plan holder on [Avalon Planroom](#)
- **Notable documents with Bid Package**
 - Entire spec book required for the bid submission
 - [DBE Utilization Plan and documented Good Faith Efforts](#)
 - Requirements of funding terms & conditions
 - Owner's Protective Liability policy of insurance
 - Check the math! Make sure the total bid amount adds up correctly

Contract Administration (Cont'd)

- Prevailing Wage Requirements
 - This contract is subject to prevailing wage requirements under Article 8 of the NYS Labor Law.
 - The prevailing wage and supplement rates that are in effect (for each trade) at the time the work is performed must be paid.
- Build America, Buy America (BABA) Act waived for this contract
- Must comply with American Iron & Steel (AIS)

Communications

- Document Management Software
 - *Procore* will be used for submission of submittals, RFIs/RFCs.
 - Contractor will be provided Procore training and specific instructions for submittal procedures after the bid is awarded.
- Bi-Weekly Progress Meetings
- Daily Communications with Buffalo Sewer staff and Consultant Construction Manager prior to start of the day's work
- Coordination with BSA Security (North Gate) for delivery of construction equipment and products

Project Schedule: Procurement and Construction



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SEWER AUTHORITY

 **GREELEY AND HANSEN**
A TYLin Company

Current Bid & Procurement Schedule

- Bid Advertisement: February 12, 2024
- Three (3) Mandatory Pre-Bid Meetings
 - **Meeting #1** – Virtual Informational Meeting: February 20, 2024 @ 11:00am ET
 - **Meeting #2** – Virtual NYSEFC Funding Compliance Meeting: February 21, 2024 @ 2:00pm ET
 - **Meeting #3** – Site walkthrough of the project site: February 22-23, 2024
- Bid Packages Due: March 28, 2024 at 11:00am EST
- Recommendation of Bid Award: May 2024
- Notice to Proceed: Summer-Fall 2024
- Substantial Completion: December 2028



Future Buffalo Sewer construction contracts to be advertised



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 **GREELEY AND HANSEN**
A TYLin Company

Future BSA Construction Contracts

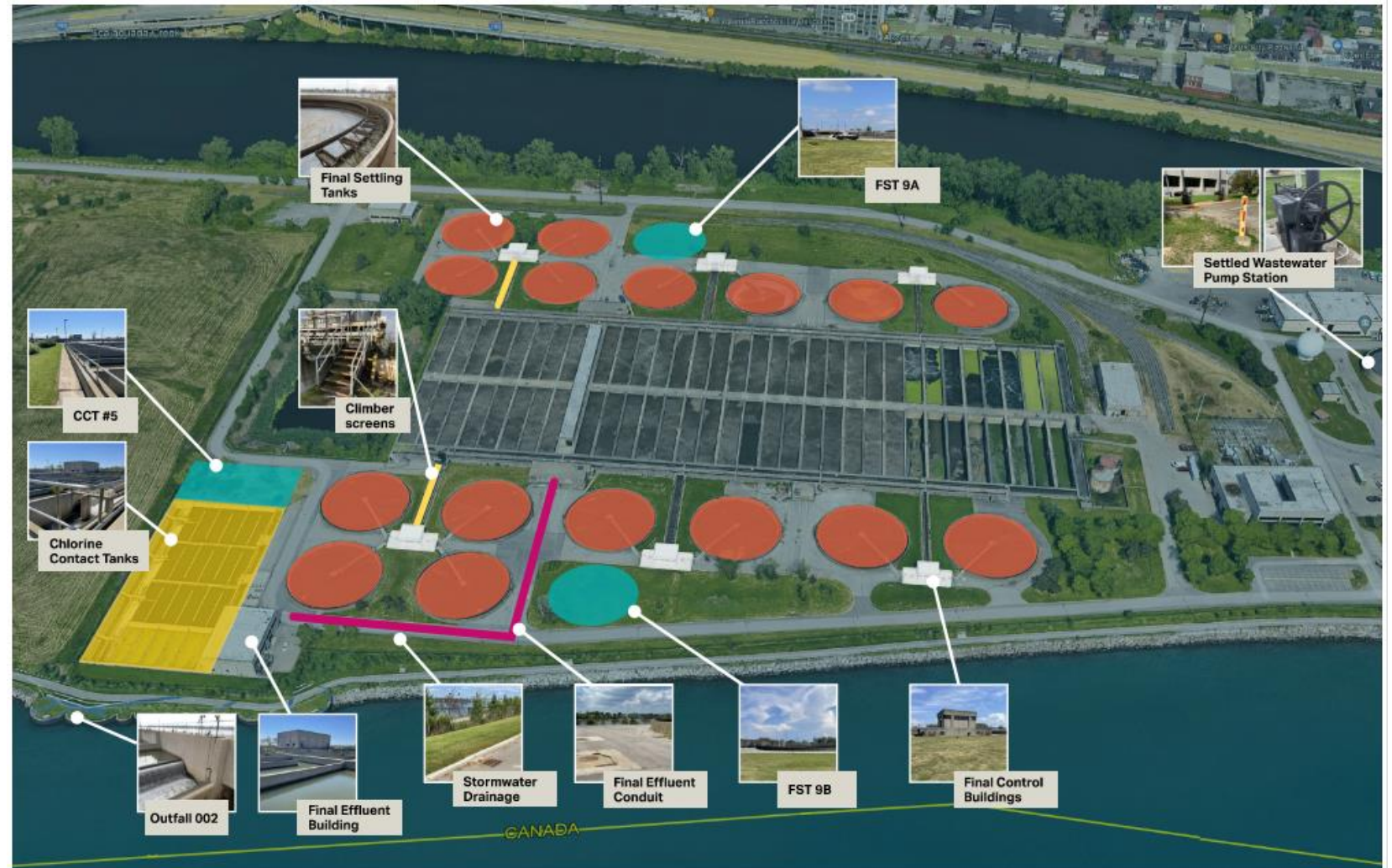
| <u>Treatment Facility Projects</u> | <u>Construction Start Date</u> | <u>Opinion of Probable Construcion Cost</u> |
|--|--------------------------------|---|
| WWTF Upgrades Phase III (Secondary System Expansion) | November 2026 | \$ 80M – \$ 100M |
| | | |
| <u>Collection System Projects</u> | <u>Construction Start Date</u> | <u>Opinion of Probable Construcion Cost</u> |
| CSO 010 - Breckenridge St CSO Sewer Project | March 2025 | \$ 20,000,000 |
| CSO 053 - Jefferson Ave Green Infrastructure | June 2025 | \$ 2,178,000 |
| CSO 053 - SPP & OLS Various Modifications | July 2025 | \$ 330,000 |
| CSO 053 - Canisius (Jefferson Delavan) OLS | June 2026 | \$ 33,000,000 |
| CSO 053 - SPP338 Modification | July 2026 | \$ 4,400,000 |
| System - Schiller Park OLS SPP339-340 Modifications | July 2026 | \$ 132,000 |
| CSO 014 - SPP206 A&B Real-Time Control Smart Sewers | May 2027 | \$ 4,400,000 |
| CSO 053 - SPP336B OLS (Sidney OLS) | July 2027 | \$ 30,492,000 |
| CSO 053 - Edison Martha OLS | June 2028 | \$ 40,964,000 |
| System - Schiller Park OLS | July 2028 | \$ 94,556,000 |

\$500M+ Capital Plan through 2028

CSO: Combined Sewer Overflow
 OLS: Off-Line Storage
 SPP: Sewer Patrol Point

WWTF Upgrades Phase III: Secondary System Upgrades and Expansion

- Rehabilitation of secondary system and increase of secondary treatment capacity from 360 MGD to 400 MGD.
- Engineering Design Start: Q1 2024
- Construction Start: Q4 2026
- Opinion of Probable Construction Cost: \$80M-\$100M





Feedback and Questions

BUFFALO
SEWER AUTHORITY

 **GREELEY AND HANSEN**
A TYLin Company

Buffalo Sewer Authority Design Project Team

Walt Walker, PE, ENV SP

Design Project Manager

walt.walker@greeley-hansen.com

Project Point of Contact

Ryan Christopher, PE, ENV SP

Design Deputy Project Manager

Tim Blake

WWTF Capital Projects Manager

Rosaleen Nogle, PE

Principal Sanitary Engineer

Alex Emmerson

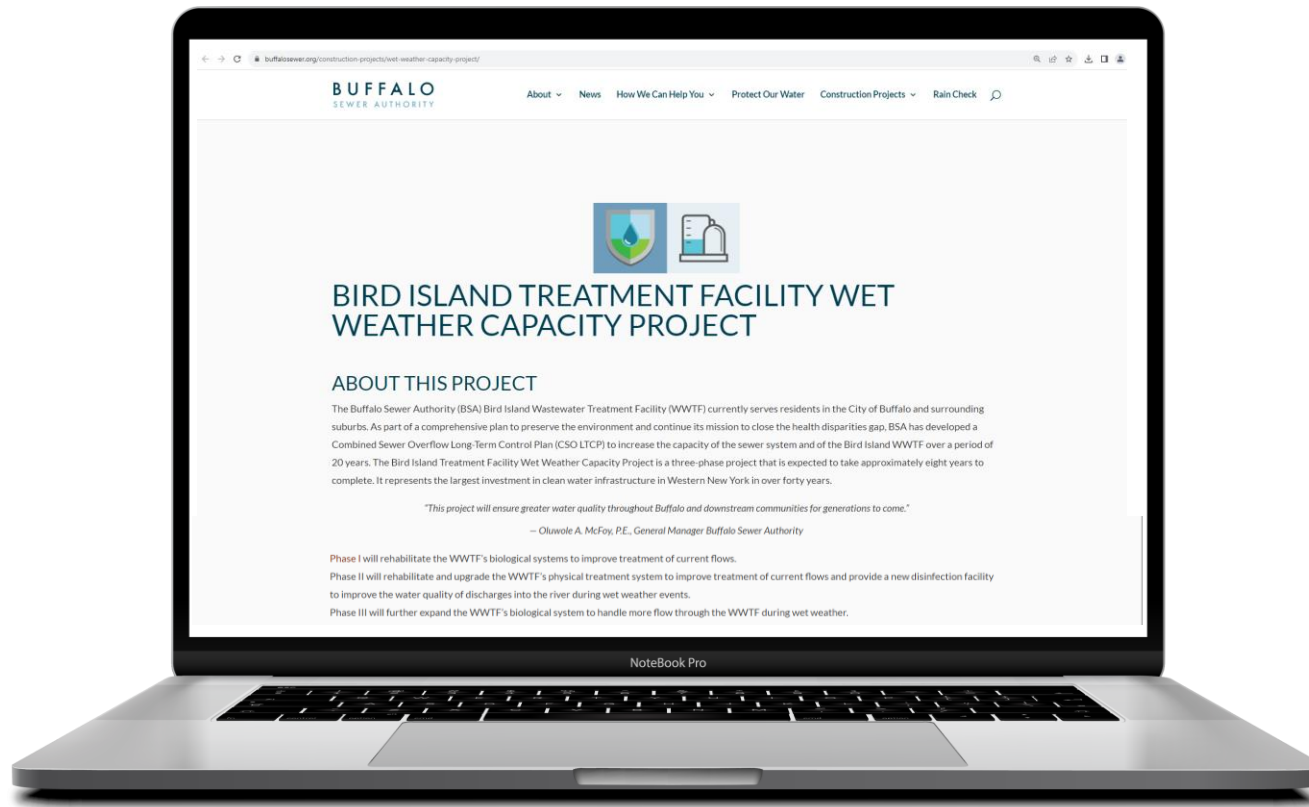
Plant Superintendent

Paul Harris, PMP

Superintendent of Mechanical Maintenance



Buffalo Sewer Authority Website



buffalosewer.org

Your BEST source of information!

- ✓ Consultant, Contractor, and Supplier Opportunities
- ✓ Construction Updates
- ✓ FAQs
- ✓ Board Meeting Minutes
- ✓ Public Participation Plans

Thank You!

GET IN TOUCH:



buffalosewer.org



[@BufaloSewer](https://www.facebook.com/BufaloSewer)



[@BufaloSewer](https://twitter.com/BufaloSewer)



[BufaloSewerAuthority](https://www.linkedin.com/company/BufaloSewerAuthority)

01/11/2024 Informational Session for BSA Upcoming Request for Construction Bids:
Primary Treatment Renovation at Bird Island WWTF
Responses to Attendee Questions

Q1: *Who is the design consulting engineer for Phase III?*

A1: AECOM.

Q2: *Will BSA distribute a recording of the 01/11/2024 Open House Information Session?*

A2: Yes. The recording, PDF presentation, and attendee list is provided at:

<https://buffalosewer.org/primary-treatment-project-open-house/>

Q3: *Will each of these contracts be single or separate primes?*

A3: A single prime is required when submitting a bid on Contract A or Contract B or the Combined Bid (Contract C).

Q4: *Are there minimum utilization requirements for Service-Disabled Veteran Owned Business (SDVOB) enterprises?*

A4: No; but similar to M/WBE utilization, it is encouraged.

Q5: *Does BSA require a minimum % of the work (based on the overall contract value) that the Prime Contractor needs to take on?*

A5: Buffalo Sewer recommends that the Prime contractor take on a minimum of 30% of the overall contract work.

Q6: *At the 28:45 minute mark of the recording, Greeley and Hansen mentioned that the effluent conduit will be "Hobas-type pipe". Other companies also supply FRPM pipe following the same ASTM standards. How can we get on the approved manufacturers list or in the project specifications?*

A6: Buffalo Sewer is open to suppliers and manufacturers reviewing the specifications and listing suppliers and manufacturers that are able to meet the specifications.

Q7: *Can you please clarify the bonding and insurance standpoint for bidding all 3 packages? Will the Prime contractor need a separate bid bond for each package?*

A7: See the following clarifications:

- Bonding
 - Proposal bonds, Certified checks or bid bonds, in the amount of 5% are to be submitted with the bid.
 - If a bidder is submitting on Contract A or B, or C (the combined bid of A+B), a separate bid security should be submitted with each package submitted.
- Insurance
 - Insurance requirements are set by BSA for all projects. These will be described in the Instructions to Bidders specification. The bidder's insurance should be submitted with the agreement if the bidder is selected.
- Bonds
 - Performance and Maintenance bonds are required to be submitted with the signed agreement and based on the total value of the contract.
 - If the bidder submits a Contract C bid and it is selected, the contractor would be required to submit Performance and Maintenance Bonds based on their Contract C bid amount with the agreement.

Buffalo Sewer Authority



Primary Treatment Renovation at Bird Island Wastewater Treatment Facility

Project Overview



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SEWER AUTHORITY

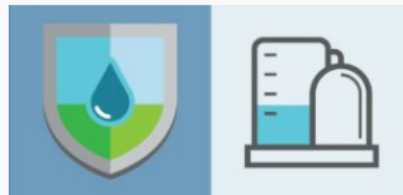


GREELEY AND HANSEN

Why is the Buffalo Sewer Authority doing this project?

- The Buffalo Sewer Authority is working together with the United States Environmental Protection Agency (US EPA) and the New York State Department of Environmental Conservation (NYSDEC) on a Long-Term Control Plan (LTCP).
- As part of the LTCP, the Primary Treatment Renovation Project is a once-in-a generation project that will:
 - Improve the existing Primary Settling and Treatment System, originally constructed in the late 1930s
 - Improve water quality of the Niagara River.
- **Project offers added opportunity/benefit to improve odor control for nearby communities, an environmental justice issue**





BIRD ISLAND TREATMENT FACILITY WET WEATHER CAPACITY PROJECT

ABOUT THIS PROJECT

The Buffalo Sewer Authority (BSA) Bird Island Wastewater Treatment Facility (WWTF) currently serves residents in the City of Buffalo and surrounding suburbs. As part of a comprehensive plan to preserve the environment and continue its mission to close the health disparities gap, BSA has developed a Combined Sewer Overflow Long-Term Control Plan (CSO LTCP) to increase the capacity of the sewer system and of the Bird Island WWTF over a period of 20 years. The Bird Island Treatment Facility Wet Weather Capacity Project is a three-phase project that is expected to take approximately eight years to complete. It represents the largest investment in clean water infrastructure in Western New York in over forty years.

"This project will ensure greater water quality throughout Buffalo and downstream communities for generations to come."

— Oluwole A. McFoy, P.E., General Manager Buffalo Sewer Authority

Phase I will rehabilitate the WWTF's biological systems to improve treatment of current flows.

Phase II will rehabilitate and upgrade the WWTF's physical treatment system to improve treatment of current flows and provide a new disinfection facility to improve the water quality of discharges into the river during wet weather events.

Phase III will further expand the WWTF's biological system to handle more flow through the WWTF during wet weather.

PRIMARY SYSTEM REHABILITATION AND UPGRADES PROJECT OVERVIEW



1 Primary Sedimentation Tank Upgrades

2 Sludge Pumping Station Upgrades

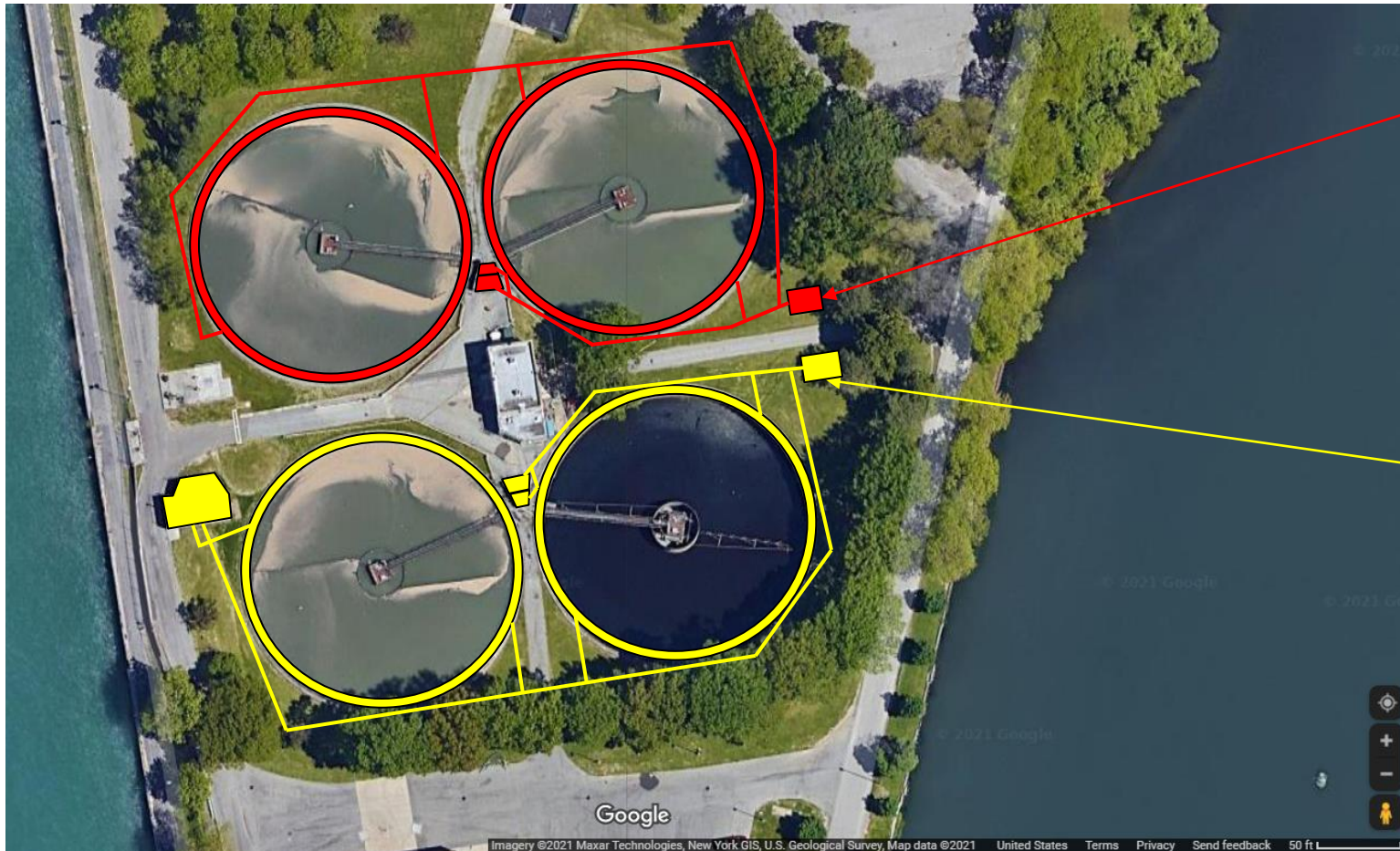
3 New Odor Control

4 New High-Rate Disinfection System

5 Bypass Structure Gates Replacement

6 Outfall 001 Repair

Odor Control System Layout



Odor Control System to Treat North Inlet Chamber and Effluent Channels of Primary Sedimentation Tanks 1 and 4

Odor Control System to Treat Bypass and Control Chamber, South Inlet Chamber, and Effluent Channels of Primary Sedimentation Tanks 2 and 3



Example

What are the project goals and community benefits?

- Protect Public Health and the Environment
- Improve Water Quality for the Niagara River
- Modernize the Treatment Facility with necessary upgrades
- Implement an Odor Control system for the Primary Sedimentation Tanks to reduce odor emissions
- Commitment to Economic Growth: meet contractor diversity and local workforce goals

How is this project being funded?

- The construction costs of this project are anticipated to be worth \$70—\$80 million.
- The project has received State and Federal Funding to ensure affordability to Buffalo Sewer ratepayers

What can I expect during construction?

- Construction is expected to start in late 2024 / early 2025 and last until end of 2028.
- Disturbances such as noise and dust are possible while heavy machinery is in operation.
- Sewage odors may also be present during construction. These temporary disturbances will be minimized as much as possible.
- Continued community engagement for progress updates and to hear feedback/concerns



Primary Treatment Renovation Project

Public Participation Plan

December 2023



INFORMATIONAL SESSION FOR UPCOMING RFP

Construction Services for
Primary Treatment Renovation at
Bird Island
Wastewater Treatment Facility



Thursday, January 11, 2024
1:00 - 2:30 pm EST

via Microsoft Teams

(An invitation with meeting details will be sent after registering)

The Buffalo Sewer Authority will be holding an informational meeting regarding the upcoming bid for the Primary Treatment Renovation at Bird Island Wastewater Treatment Facility. The bid advertisement is expected to go live in February 2024 and is anticipated to be worth \$70-80M.

Contractors and vendors interested in learning more about this upcoming bid and other future opportunities are encouraged to attend this Informational "Open House" Session (virtual) scheduled for Thursday, January 11, 2024 at 1:00 pm EST.

The agenda of this meeting will provide a detailed overview of the project and an opportunity for all potential bidders to ask questions, to discuss the proposed timelines, build relationships between potential prime/subcontractors and vendors, and to state their interest in the project.

Register to Attend:

Scan the QR code to the right or go to forms.office.com/r/BvdxJVN5eD



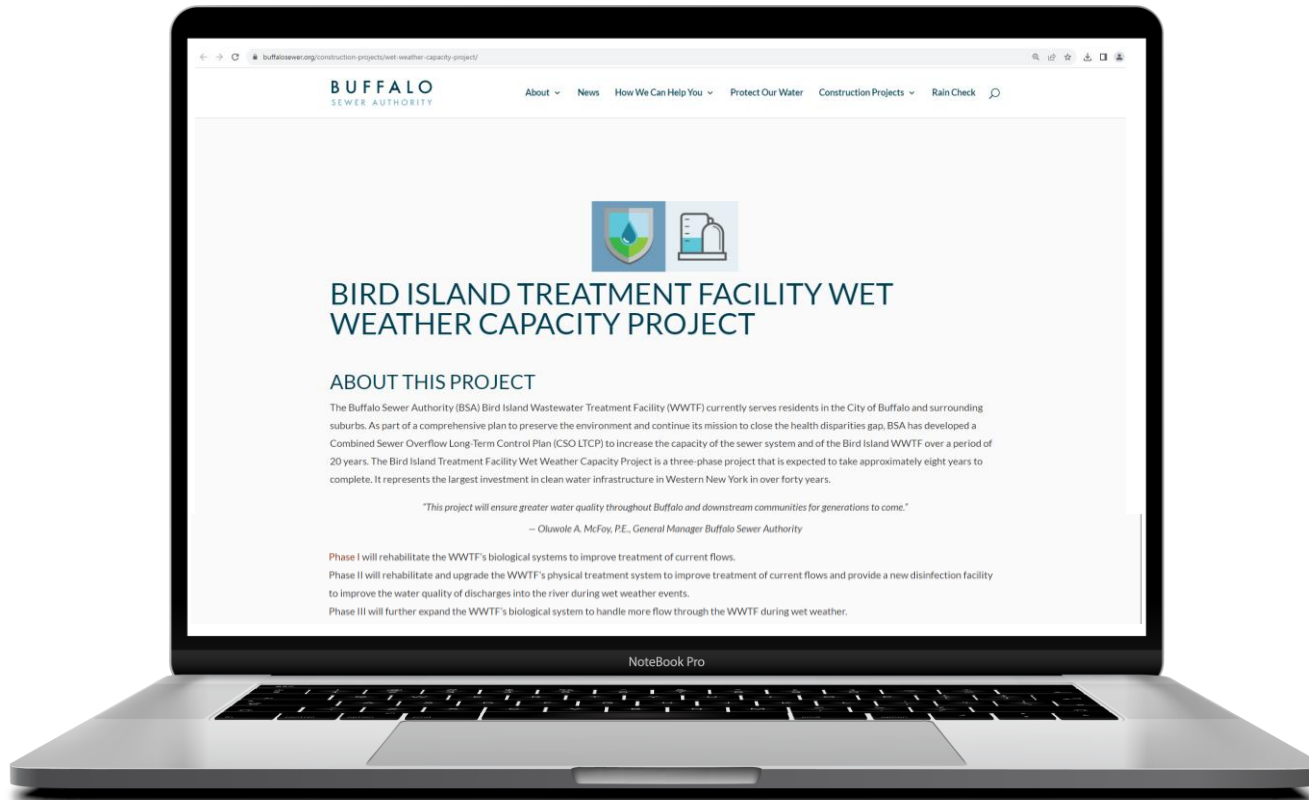
buffalosewer.org

Can I use Shoreline Trail during construction?

- The project will require a temporary closure (up to 12 months) of a portion of the Shoreline Trail that runs alongside the Bird Island WRRF.
 - Maintain safety during Outfall repairs
- Extents of the closure are shown below in **red**.
- A Work Zone Traffic Control Plan has been developed to detour pedestrians and cyclists along Niagara Street between Freedom Park (formerly Broderick Park) and Unity Island Park.
- **Neither park will be impacted by the project.**



Where can I find more information?



Buffalo Sewer Authority website:



buffalosewer.org

- ✓ Consultant, Contractor, and Supplier Opportunities
- ✓ Construction Updates
- ✓ FAQs
- ✓ Board Meeting Minutes
- ✓ Public Participation Plans



@BuffaloSewer



@BuffaloSewer



BuffaloSewerAuthority

Buffalo Sewer Authority Design Project Team

Tim Blake

Treatment Plant Capital Improvements Manager

tblake@buffalosewer.org

716-851-4664

Walt Walker, PE

Design Project Manager

Alex Emmerson

Plant Superintendent

Rosaleen Nogle, PE

Principal Sanitary Engineer

Paul Harris

Superintendent of Mechanical Maintenance



→ PUBLIC PARTICIPATION FORUM

WHERE:

The Belle Center
104 Maryland St.
Buffalo, NY 14201

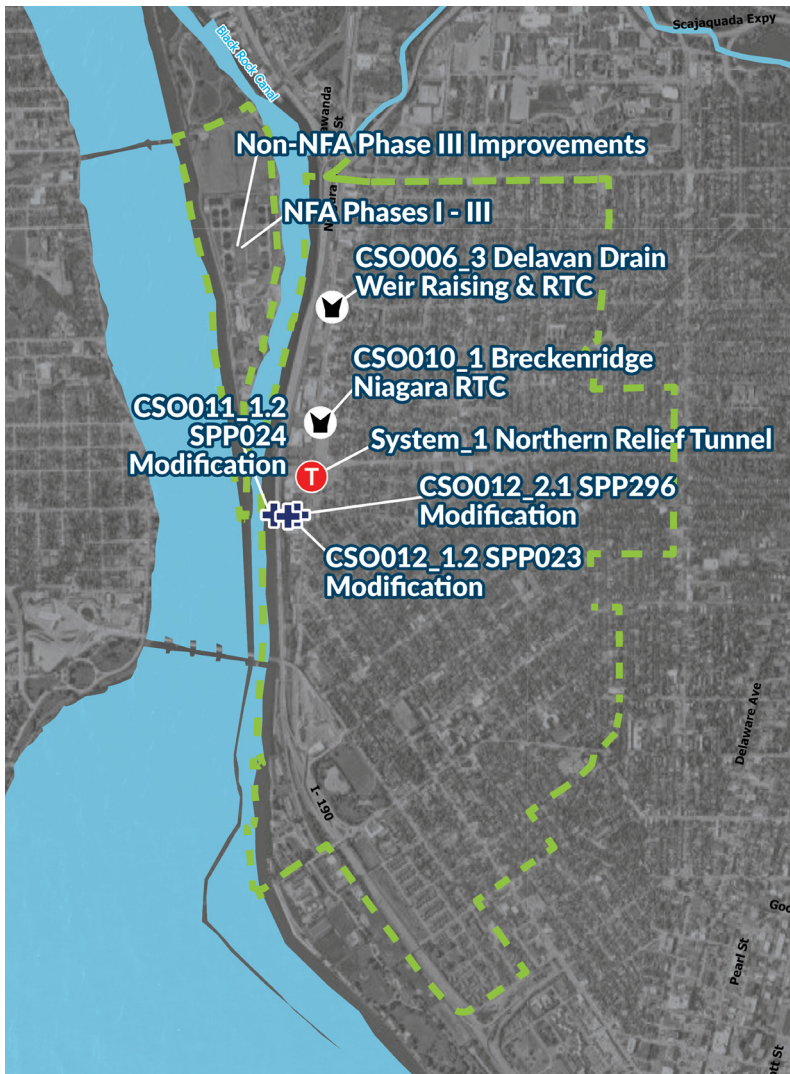
WHEN:

Thursday, June 12, 2025
6:00 - 8:00 PM EST

WHAT:

To learn more about the
upcoming projects in the
Niagara District

Dinner will be served. Translation and American Sign Language services will be provided.



WHY:

Buffalo Sewer is planning \$1 Billion in sewer projects over the next 15 years to reduce wet weather discharges of sewage and improve our community.

ZOOM MEETING:

Saturday, July 12, 2025
10:00 AM - 12:00 PM EST

Please scan the QR code to register for the virtual Public Participation Session, to be held in July 2025.



► Niagara District Community Meeting

Date: Thursday June 12th, 2025

Time: 6:00 PM – 8:00 PM

Location: The Belle Center, 104 Maryland St, Buffalo, NY 14201

ATTENDEES

Rosaleen Nogle (BSA)

Perry Pope (BSA)

Katherine Murphy (BSA)

Kathryn Rozwood (TYLin)

Aria Harris (TYLin)

Brittany Fletcher (TYLin)

Nadia Mugisha (Arcadis)

Jaime Davidson (JMD)

Cambridge Boyd (Hallmark)

AGENDA

1. Queen City Clean Waters Program Overview
2. Overview of University District Specific Projects
3. Q&A

ACTION ITEMS

1. Respond to questions on FAQs Poster Board Hallmark/ PMT

MEETING SUMMARY NOTES

Queen City Clean Waters: Niagara District Community Meeting Summary Notes

Meeting Summary – June 12th, 2025 | 6:00 – 8:00 PM

Location: Ellicott District – The Belle Center, 104 Maryland St, Buffalo, NY 14201

Who Attended

- Queen City Clean Waters representatives
- Local partners
- Community members and residents

About the Initiative

- **Launched in early 2024**, as an update to Buffalo Sewer’s Long-Term Control Plan
- Investing **\$1 billion+** across 50+ combined sewer overflow and wastewater treatment projects in all nine council districts over the next 10–15 years
- Focus on environmental upgrades **with economic and social benefits** for local communities

History of Buffalo Sewer

- Establishment: April 8, 1935, in response to a Department of Health mandate.
- Early Challenges: Financial instability leading to the creation of a state-established authority with \$15 million capacity.
- Long-Term Control Plan:
 - Initial report submitted in 2004, approved in 2014.
 - Ongoing adjustments revealed the need for additional projects to achieve full compliance by 2022.
 - Rebranded to the Queen City Clean Waters Initiative in 2023.

Stakeholder Advisory Committee

- Formed in January 2025 to ensure **community voices shape project design**
- Includes reps from Board of Block Clubs, Urban League, Health Equity groups, and block clubs
- Supports transparency, inclusion, and local leadership in the process

Niagara District Projects:

- **Bird Island Treatment Facility Upgrades: Phase I**
 - **Goal:** Grit removal and cleaning of the secondary system aeration basins. Upgrades to pipes and valves for the return activated sludge system.
 - **Location:** Bird Island
 - **Budget:** Estimated \$60 Million
 - **Timeline:** In Construction 2022-2030
- **Bird Island Wastewater Treatment Facility: Phase II**
 - **Goal:** Improve sludge pumping and sedimentation tanks. Add new odor control & chlorine treatment systems. Disinfection with upgraded dosing and pumping.
 - **Location:** Bird Island
 - **Budget:** Estimated \$125 Million
 - **Timeline:** 2026-2031
- **Bird Island Wastewater Treatment Facility: Phase III**
 - **Goal:** Upgrades to secondary treatment system. Improve flow into existing clarifiers and add 2 new clarifiers. Install another chlorine tank.
 - **Location:** Michigan & Riley
 - **Budget:** Estimated \$80 Million
 - **Timeline:** 2028-2031
- **Breckenridge Street Combined Sewer Overflow Project**
 - **Goal:** Lining of the Breckenridge sewer from West to Herkimer, installation of new waterline, sewer, and manholes along West Avenue from Breckenridge to Lafayette, installation of a new drop manhole and chamber to the Scajaquada Tunnel (requiring deep excavation) at the intersection of West and Lafayette.
 - **Location:** Breckenridge St
 - **Budget:** Estimated \$23 Million
 - **Timeline:** 2025-2029
- **Sewer Patrol Point (SPP 023)**
 - **Goal:** Widen the opening under the barrier to let more water pass through and raise barrier height to better control and reduce overflow during the rain.
 - **Location:** Niagara Thru. & Albany St.
 - **Budget:** Estimated \$60,000
 - **Timeline:** 2030-2032
- **Sewer Patrol Point (SPP 296)**
 - **Goal:** Widen the opening under the barrier to let more water pass through and raise barrier height to better control and reduce overflow during the rain.
 - **Location:** Niagara Thru. & Albany St.
 - **Budget:** Estimated \$60,000
 - **Timeline:** 2030-2032
- **Sewer Patrol Point (SPP 024)**
 - **Goal:** Widen the opening under the barrier to let more water pass through, sending more water to the South Interceptor.
 - **Location:** Chicago & Exchange

- **Budget:** Estimated \$60,000
- **Timeline:** 2030-2032
- **Northern Relief Tunnel**
 - **Goal:** Move more water to the wastewater treatment plant and store extra water during storms to prevent overflows.
 - **Location:** 3-Part Tunnel System
 - North of Scajaquada Creek
 - South of Scajaquada Creek
 - Southern Relief Tunnel
 - **Budget:** Estimated \$72 Million
 - **Timeline:** 2033-2040
- **Delavan Drain Real-Time Control (SPP 170A)**
 - **Goal:** Installation of an automatically controlled gate that will adjust based on sewer level to balance flows between the Delavan Drain sewer and the Scajaquada Drain to store flow where capacity may exist. This will involve opening up the existing structure at the intersection of West Delavan and Niagara Street and installing control elements.
 - Location:** Niagara & W. Delavan
 - **Budget:** Estimated \$5.5 Million
 - **Timeline:** 2033-2036

Project Impacts and Mitigation

- **Construction Impacts:**
 - Equipment and traffic on roads, temporary noise and dust.
 - Potential road and sidewalk closures, limited street parking, and detours.
 - Mitigation measures are in place to minimize disruptions.
- **Environmental Compliance:**
 - State priority environmental review completed.
 - Measures to control erosion and runoff during construction.
- **Operational Benefits:**
 - Reduction in CSOs
 - Improved public health and ecosystem enhancement
 - Compliance with Environmental Protection Agency regulations

Community Engagement Highlights

- **Interactive Website:** BuffaloQCCW.org for ideas, surveys, and concerns
- **Public Forums:**
 - *In-person:* April, May & June – all nine council districts
 - *Virtual:* July 12, 10 AM–12 PM (Zoom)
- **Outreach Tools:** Mailers, social media, texts, and presence at community events like National Night Out

Upcoming Events

- **June 17th @ 6 PM:** North District Community Meeting In-Person at the Northwest Buffalo Community Center
- **July 12 @ 10 AM:** Virtual Community Forum

Stay Connected

- Visit: BuffaloQCCW.org
- Art Hall from Hallmark Planning & Development
- Follow-up: Meeting notes, Q&A responses, and ongoing design updates will be published

Community Questions & Responses

1. **Are you working with Buffalo Niagara Waterkeeper on this initiative?**
 - Yes, we have a good relationship with Buffalo Niagara Waterkeeper. We often are guest speakers at their events; they also are a part of our stakeholder advisory committee for the initiative. We keep each other in the loop on each of our projects and often work together when we are able.
2. **I live in the North Buffalo area, my basement tends to flood during heavy storm events, why is this?**
 - In North Buffalo, this tends to happen more often due to the shallow rock below ground and how deep the sewer is. The way that pipes connect to sewer mains for many homes in North Buffalo needed to be constructed with the topography in mind. Many of the pipes are built flat and then straight down to the main. Over time due to various reasons the pipes have begun to disconnect from the sewer main, therefore not all flow coming out of the home is getting to the main. That is most frequently the reason for this area of the city.

NEXT MEETING (IF APPLICABLE)

| | |
|---------------------------|------------------------------------|
| Date of Next Meeting: | June 17 th , 2025 |
| Time of Next Meeting: | 6:00 PM |
| Location of next Meeting: | Northwest Buffalo Community Center |



BUFFALO

SEWER AUTHORITY

QUEEN CITY CLEAN WATERS



Niagara Council District
Meeting Tuesday June 12,
2025

| Name | Email Address | Phone Number | Neighborhood | Do you belong to a Block Club? | Would you like to receive more info? |
|-----------------|--------------------------|----------------|---------------|--------------------------------|--------------------------------------|
| Bahara Ponce | studio9buffalo@gmail.com | 716 912 4328 | West side | Vision Niagara | yes |
| Jerry Mamula | laqued6m@gmail.com | 716 381 3486 | North Buffalo | | Yes. |
| Mohamed Muse | mmuse98@gmail.com | 716 883 1900 | Westside Btlo | | yes |
| HORTENSE MUSOTE | | (716) 715-8449 | | | |

| | | | | | |
|--------------|---------------------------|------------|--|--|---|
| Jean Blum | | interprete | | | |
| Yadie | | | | | |
| Steve | | | | | |
| Joseph | | | | | 1 |
| Nkosi Akeye | nakeye Q buffalony-gou | | | | |
| Deret M. | | | | | |
| Yediel Trade | Carlos Johnson | | | | |

Hector Gonzalez
 Alijah Livingston
 LoSuen Torres
 Justine Jorge
 Innocent NROUNZIZA
 Mailili Soumeraike
 Emanuel Figueroa

NIAGARA DISTRICT



Northern Relief Tunnel (Niagara & Gull)

Construction Timeline: Summer 2033 - Summer 2040

Description:

- Installation of new deep 12-ft diameter tunnel from Tonawanda Street to Albany Street to store a combination of sanitary sewage and storm water during wet weather until the Bird Island Treatment Facility has capacity to treat it. By storing the flow temporarily, the amount of flow discharged to the Niagara River without treatment is significantly decreased.



SPP 023 (Niagara Thruway & Albany St)

Construction Timeline: Spring 2028 - Fall 2029

Description:

- Internal modifications to the existing structure, access through existing manhole.



SPP 024 (Niagara Thruway & Albany St)

Construction Timeline: Spring 2028 - Fall 2029

Description:

- Currently envisioned as modifications to the existing sewer chamber, but alternatives are being evaluated as the chamber is difficult to access.



SPP 296 (Niagara Thruway & Albany St)

Construction Timeline: Spring 2028 - Fall 2029

Description:

- Internal modifications to the existing structure, access through existing manhole.



Delavan Drain Real Time Control (SPP 170A) (Niagara & W. Delavan)

Construction Timeline: Winter 2033 - Spring 2036

Description:

- Installation of an automatically controlled gate that will adjust based on sewer level to balance flows between the Delavan Drain sewer and the Scajaquada Drain to store flow where capacity may exist. This will involve opening up the existing structure at the intersection of West Delavan and Niagara Street and installing control elements.



CSO Project (Breckenridge Street)

Construction Timeline: Summer 2025 - Winter 2029

Description:

- Lining of the Breckenridge sewer from West to Herkimer, installation of new waterline, sewer, and manholes along West Avenue from Breckenridge to Lafayette, installation of a new drop manhole and chamber to the Scajaquada Tunnel (requiring deep excavation) at the intersection of West and Lafayette.



SPP 304 (Virginia & Busti)

Construction Timeline: Spring 2028 - Fall 2029

Description:

- Internal modifications to the existing structure, all work can be completed via access through existing manhole.



Scan for more project information!





Queen City Clean Waters

Public Participation Forum

June 12, 2025 – The Belle Center, Niagara District

BSA Capital Projects Program Management Team:

TYLin | Greeley and Hansen
Water Solutions

Arcadis | JM Davidson Engineering | Hallmark Planning & Development | e3 Communications | Watts Architecture & Engineering | CORE
Environmental | Atlantic Testing Laboratories | Frandina Engineering and Land Surveying | KHEOPS Architecture, Engineering and Survey |
International Institute of Buffalo | Jade Stone Engineering | NASCO Construction Services | JKMuir | People Inc. | CWD Consulting

Disclaimer

- This Presentation is provided as of June 12, 2025.
- If you are viewing this Presentation after that date, subsequent events could have a material effect on this information.
- By presenting this information, Buffalo Sewer has not undertaken any obligation to update the information beyond the date of the Presentation.
- Data and other information provided are not warranted as to completeness or accuracy and are subject to change without notice.
- The views, policies, programs, and practices reflected herein also are subject to change without notice.
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Agenda



BACKGROUND



OVERALL PLAN



SPECIFIC PROJECTS WITHIN COUNCIL DISTRICT



OPPORTUNITIES TO STAY ENGAGED

Key Terminology



CSO: Combined
Sewer Overflow



GI: Green
Infrastructure



ILS: In-line
Storage



OLS: Off-line
Storage Tank



RTC: Real Time
Control

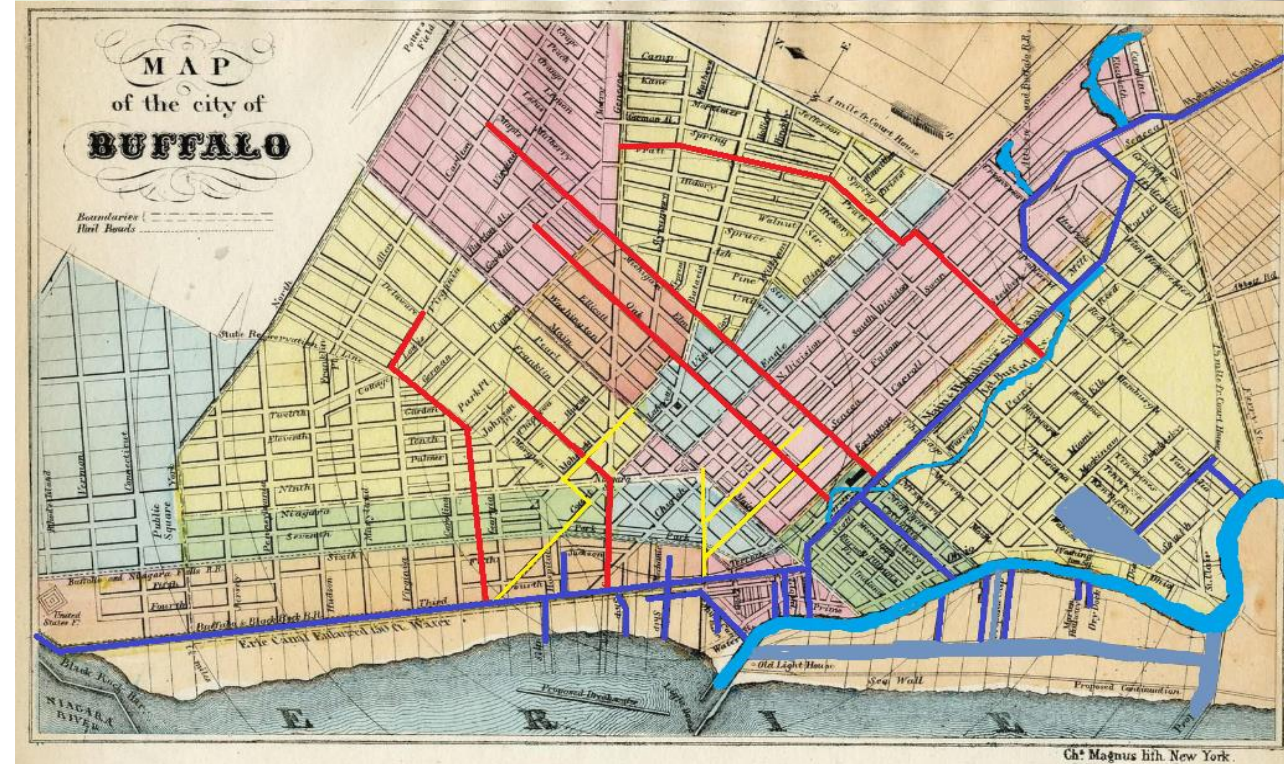


SPP: Sewer
Patrol Point

Background

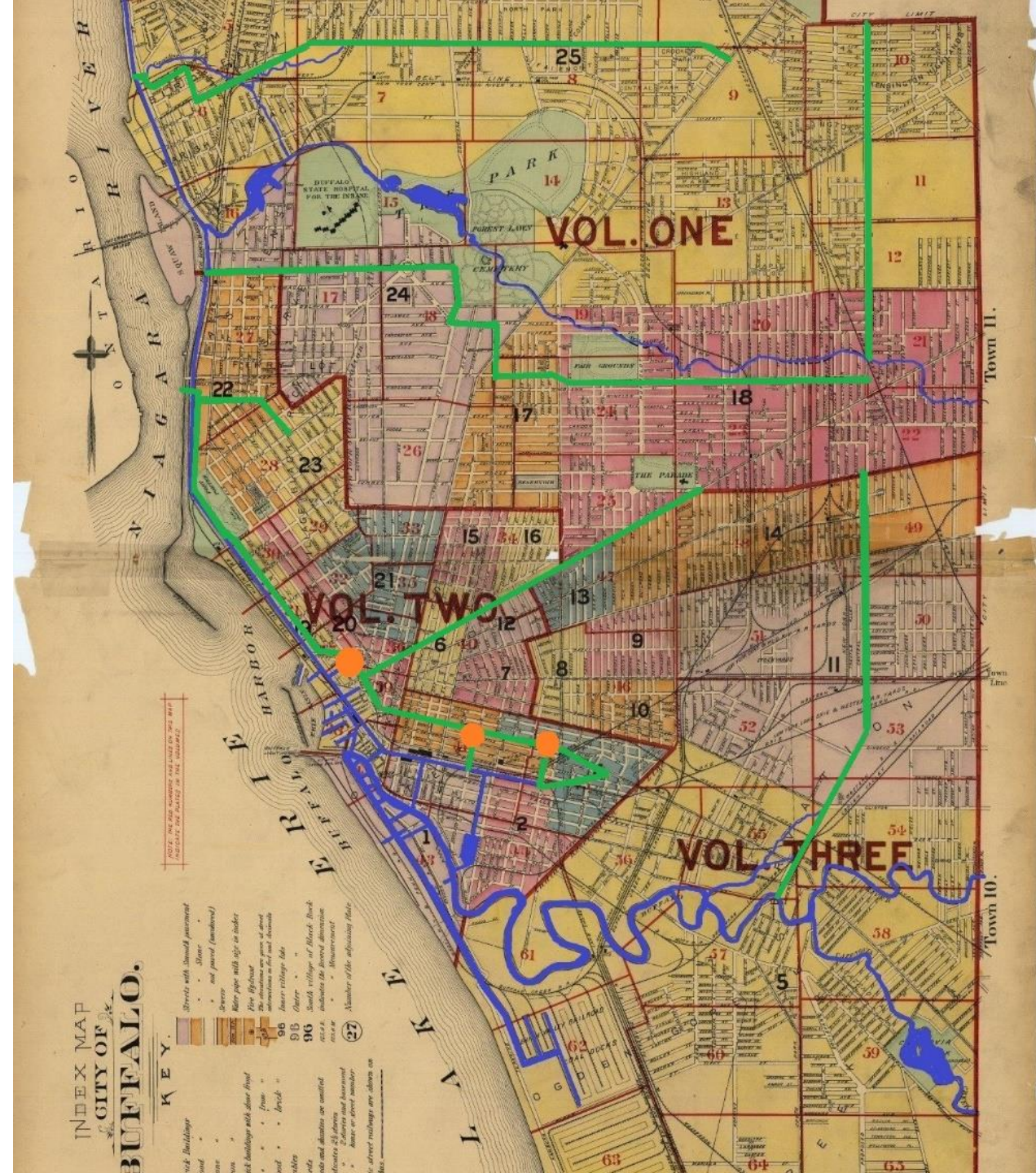
A Brief History of Buffalo's Sewers

- Erie Canal opened in 1825
- Drain the Swamp
- Cholera epidemics
 - 1832
 - 1849
 - 1852



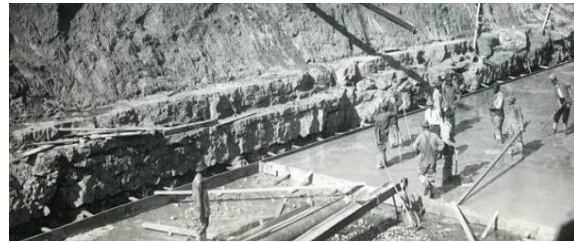
A Brief History of Buffalo's Sewers (Cont.)

- George E. Waring, Jr. 1884
- Considered, but rejected
 - Sewer separation
 - Treatment Facility
- Swan
 - Main & Hamburg Canal and Wilkenson Slip: putrid
 - 90 Degree turn at Albany Street
 - Bird Island Pier, now the tip of Freedom Park



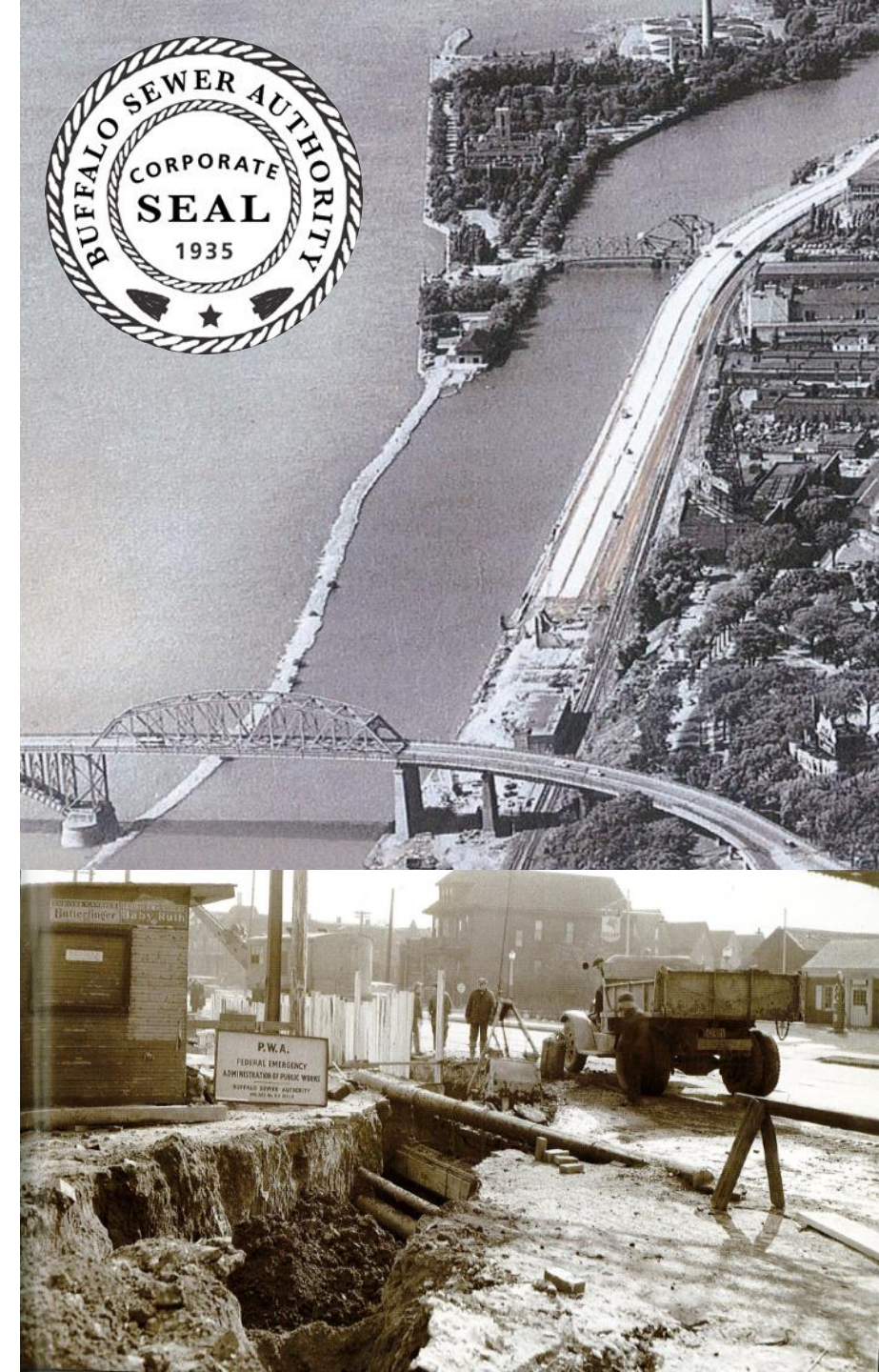
1900-1929: Burying of Waters

- Hamburg Drain
- Ohio Drain
- Scajaquada Creek to Scajaquada Drain 1925



Buffalo Sewer Authority's Founding

- 1907 Canadian Report:
 - Niagara Falls, NY Typhoid Rate
 - 0.2% Population Dying Each Year
- International Joint Commission: January 11, 1909
- 1918 Report: 80% Niagara River Pollution from Buffalo
- NYS Dept. of Health Mandate: March 1935
 - Primary Sewage Treatment Plant
 - Interceptor Sewers
- Establishment of BSA: April 8, 1935
 - \$15 M Bonding Capacity (\$344 M 2024)





1941-1970: Storm Relief and Sprawl

NYS Route 33

- Severed Bird-Ferry Trunk
- Stormwater added to system
- New pump station for stormwater and groundwater
- New trunk sewers constructed

I-198

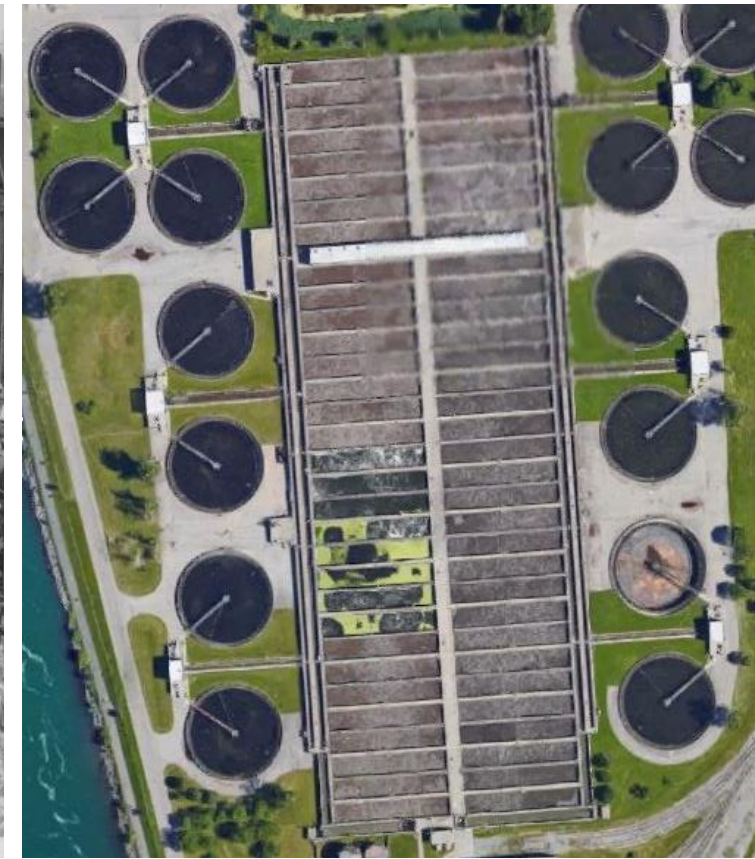
- New storm sewers
- Direct discharge to Scajaquada Creek

I-190

- Old Erie Canal bed
- On top of:
 - Swan Trunk
 - Interceptors
 - Hamburg Drain

Clean Water Act (1972)

- Scajaquada Tunnel
- Weir Modifications
 - Diversion from Scajaquada Drain to Tunnel
 - Raising of Weirs
- Kelly Island Connection
- Backwater Gates
- Secondary Treatment Process





1994

USEPA CSO
Control Policy
Issued (Required
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LTCP)

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Submitted Initial
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State Department
of Environmental
Conservation
(NYSDEC)

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NYSDEC/USEPA
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Additional
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Begins

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Submitted
LTCP Update to
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(as directed by
regulatory agency)

2014

Final LTCP Report
Submitted to
USEPA/NYSDEC

2022

Revised collection
system model is
approved

2023

QCCW
(51 proposed
projects)
submitted to
NYSDEC

Approved Recalibration Results

- Some Combined Sewer Overflows (CSOs) Already in Compliance (Some Projects Not Needed)
- LTCP Does Not Reach Compliance for Others!

| Waterbody | Activation Goals | Projected Activations |
|-------------------------|------------------|-----------------------|
| Buffalo River | 6 | 15 |
| Niagara River | 9 | 14 |
| Scajaquada Creek | 4 | 19 |

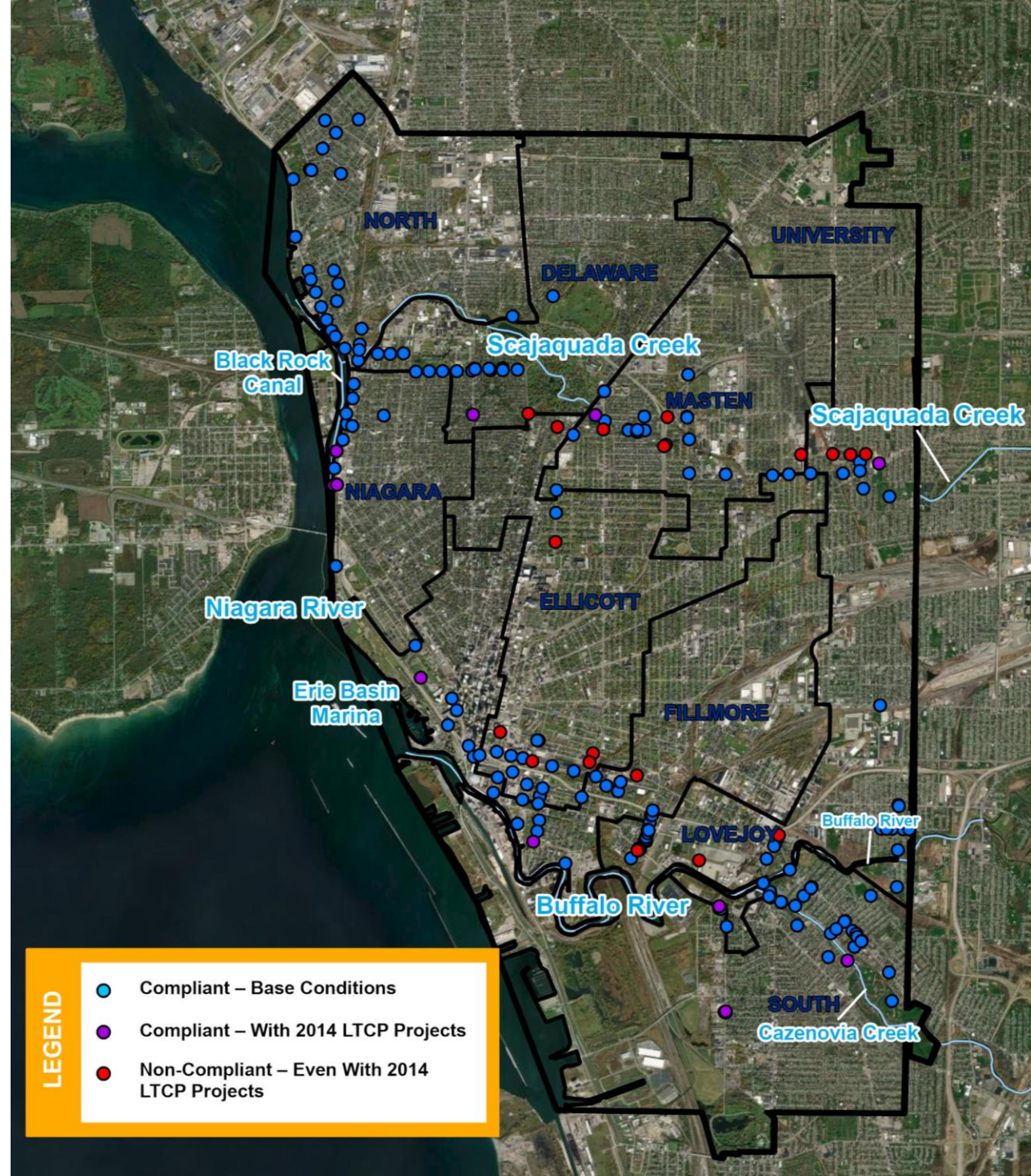
Sewer Patrol Points (SPP) Compliance

Proportion in Each Compliance Category

174

13

18



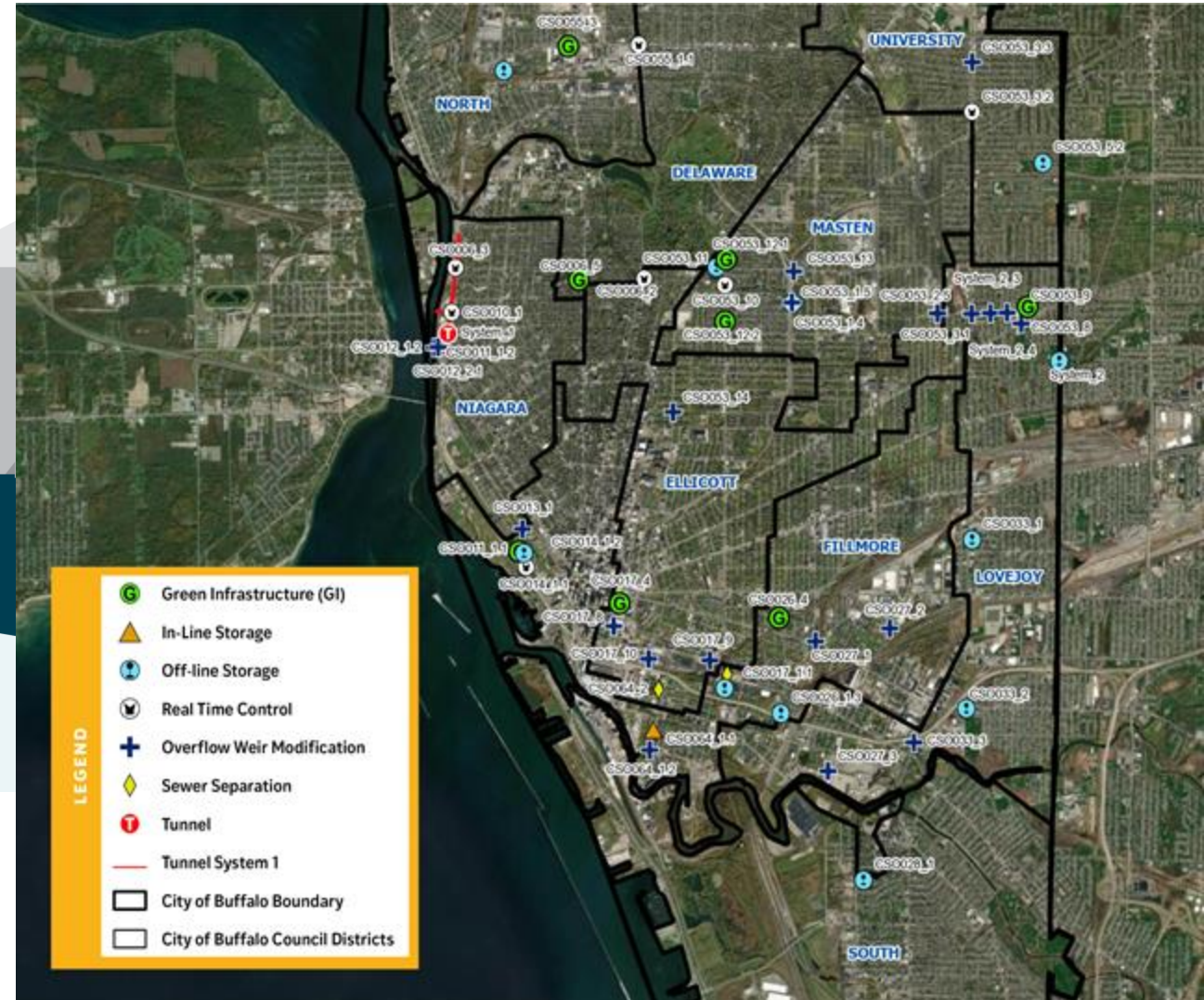
Queen City Clean Waters

PROGRAM OVERVIEW

50+
SITES

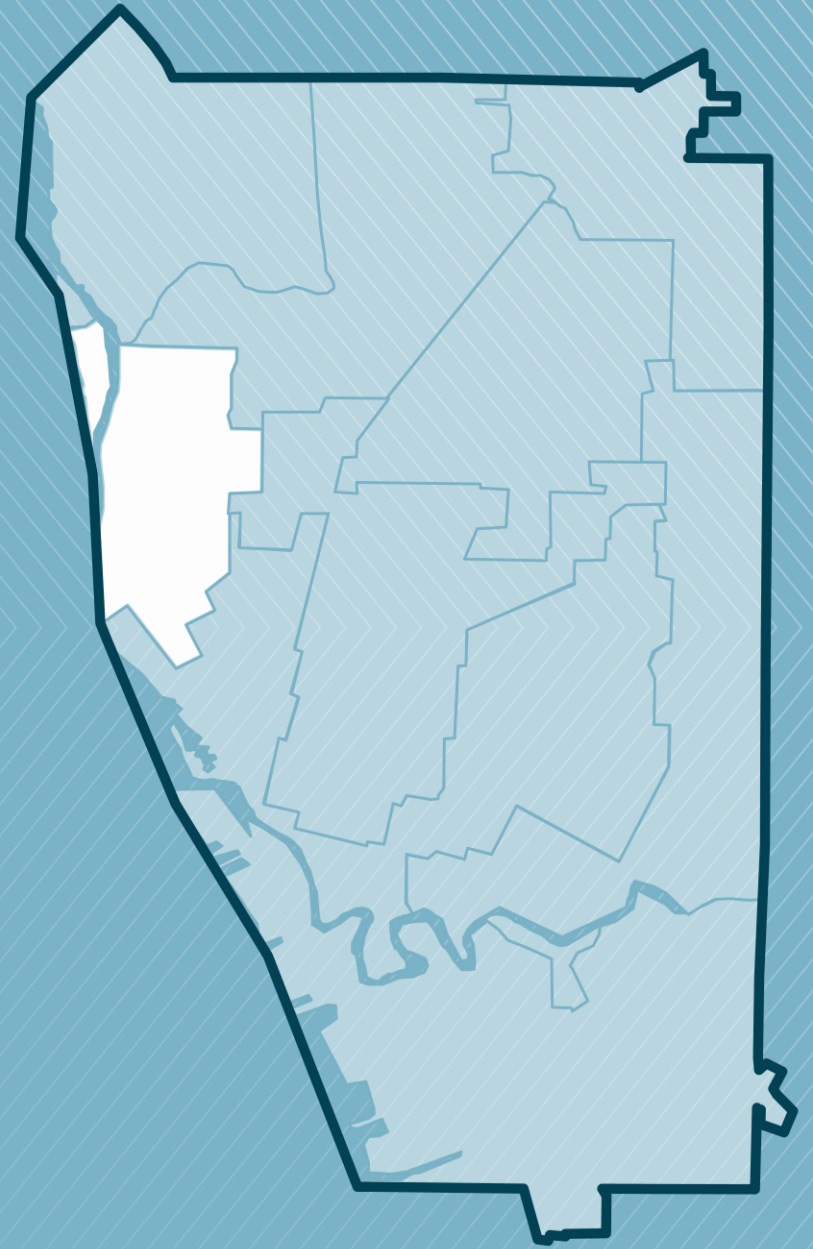
\$1
BILLION

15
YEARS



Niagara District

Specific Projects



Treatment Facility Upgrades: Phase I

BIRD ISLAND WASTEWATER TREATMENT FACILITY

Project Description:

- Grit removal and cleaning of the **secondary system** aeration basins
- Replacement of the aeration diffusers
- Replacement and upgrading of piping and valves for the return activated sludge system

Estimated Cost: \$60,553,127



TIMELINE ▼



Treatment Facility Upgrades: Phase II

BIRD ISLAND WASTEWATER TREATMENT FACILITY

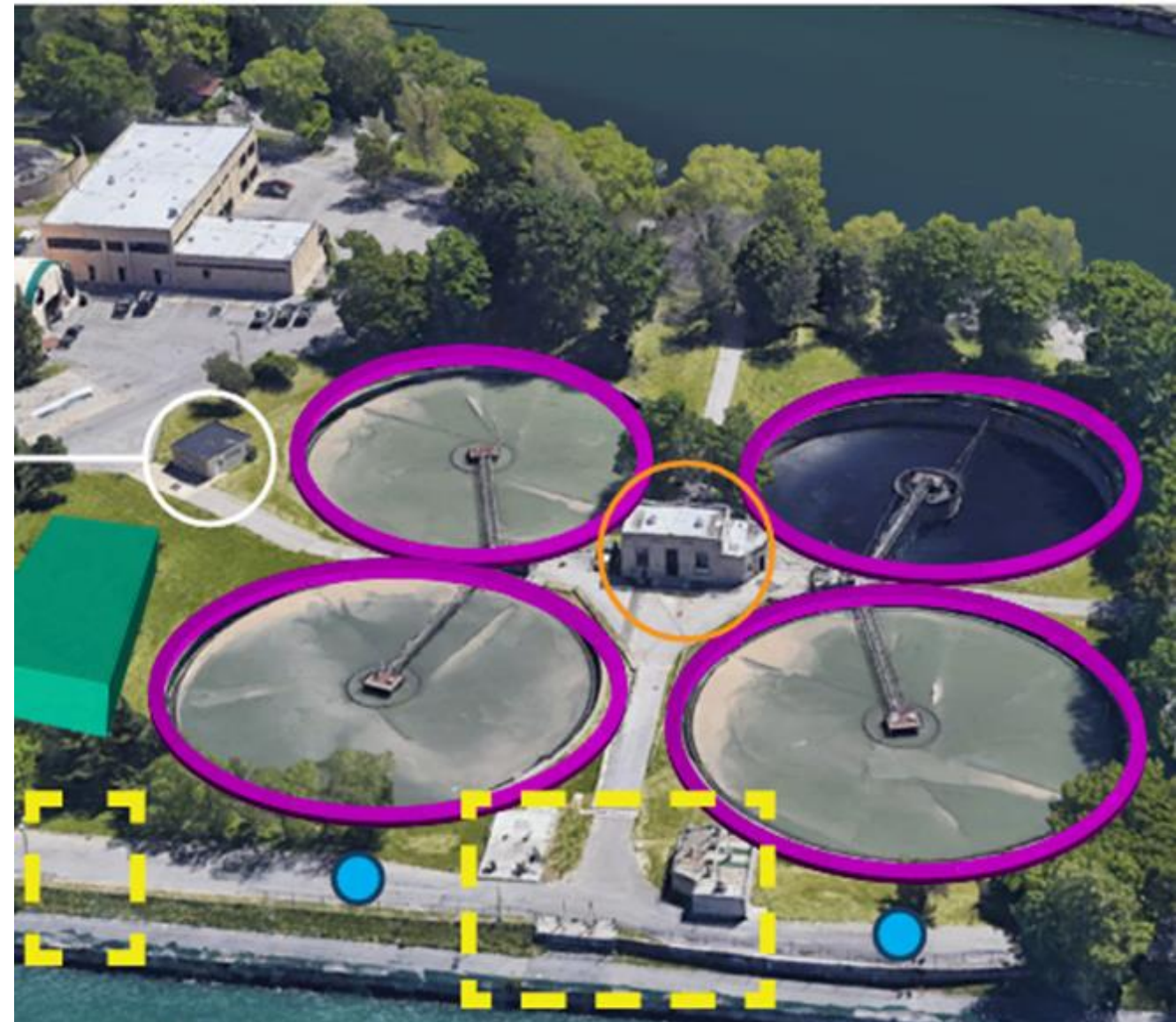
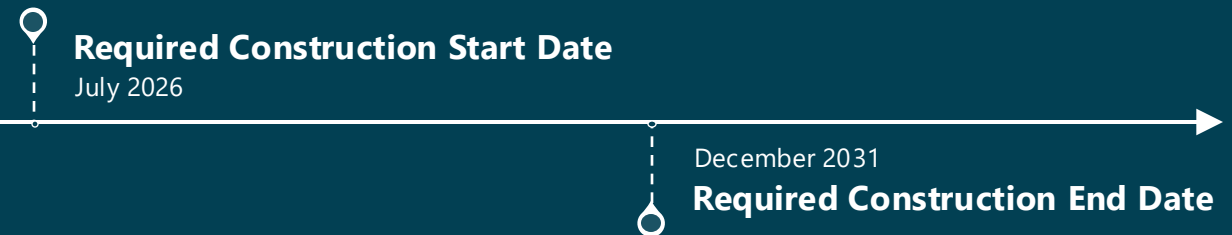
Project Description:

Primary Treatment System Upgrades:

- Improved **sludge pumping** and **sedimentation tanks**
- New **odor control** and **chlorine treatment systems**
- Disinfection with **upgraded dosing** and **pumping**

Estimated Cost: \$125,000,000

TIMELINE ▼



Treatment Facility Upgrades: Phase III

BIRD ISLAND WASTEWATER TREATMENT FACILITY

Project Description:

- Upgrades of the existing **secondary treatment system**
- Improving flow into existing clarifiers
- Adding two new clarifiers
- Installing another chlorine tank

Estimated Cost: \$80,000,000

TIMELINE ▼



Treatment Facility Upgrades: Phase III Additional Improvements

BIRD ISLAND WASTEWATER TREATMENT FACILITY

Project Description:

- Improvements to the **secondary treatment system**

Estimated Cost: \$60,000,000



TIMELINE ▼



Breckenridge Street

COMBINED SEWER OVERFLOW (CSO) PROJECT

Estimated Cost: \$23,000,000

Waterbody Impacted: Black Rock Canal



Will Prevent Overflow of 8 Million Gallons of Combined Sewage to the Black Rock Canal Per Year

TIMELINE ▼



Niagara Thruway & Albany St.

SEWER PATROL POINT (SPP 023)

Project Description:

- **Widening the opening** under the barrier to let more water pass through
- **Raising the barrier height** to better control and reduce overflow during rain

Estimated Cost: \$60,000

Waterbody Impacted: Black Rock Canal

TIMELINE ▼



Currently evaluating alternatives as this SPP affects SPP- 024, which is difficult to access under I-190.

Niagara Thruway & Albany St.

SEWER PATROL POINT (SPP 296)

Project Description:

- **Widening the opening** under the barrier to let more water pass through
- **Raising the barrier height** to better control and reduce overflow during rain

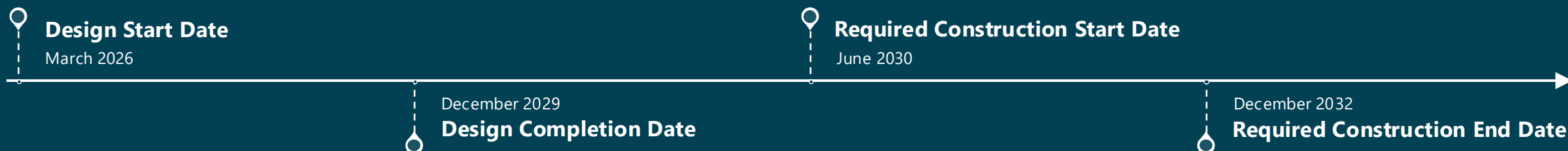
Estimated Cost: \$60,000

Waterbody Impacted: Black Rock Canal

Currently evaluating alternatives as this SPP affects SPP- 024, which is difficult to access under I-190.



TIMELINE ▼



Niagara Thruway & Albany St.

SEWER PATROL POINT (SPP 024)

Project Description:

- **Widening the opening** under the barrier to let more water pass through
- **Sending more water to the South Interceptor** to help prevent sewer overflows during storms

Estimated Cost: \$60,000

Waterbody Impacted: Black Rock Canal

TIMELINE ▼



Currently evaluating alternatives upstream of SPP- 024 due to difficult access under I-190; may affect projects at SPP-023 and SPP-296.



Niagara & Gull

NORTHERN RELIEF TUNNEL

Project Description:

- **Three-part tunnel system:**
 - North of Scajaquada Creek
 - South of Scajaquada Creek
 - Southern Relief Tunnel
- **What This System Will Do:**
 - **Move more water** to the wastewater treatment plant
 - **Store extra water** during storms to prevent overflows

Estimated Cost: \$72,810,744

Waterbody Impacted: Niagara River

TIMELINE ▼



Niagara & West Delavan

DELAVAN DRAIN REAL TIME CONTROL (SPP 170A)

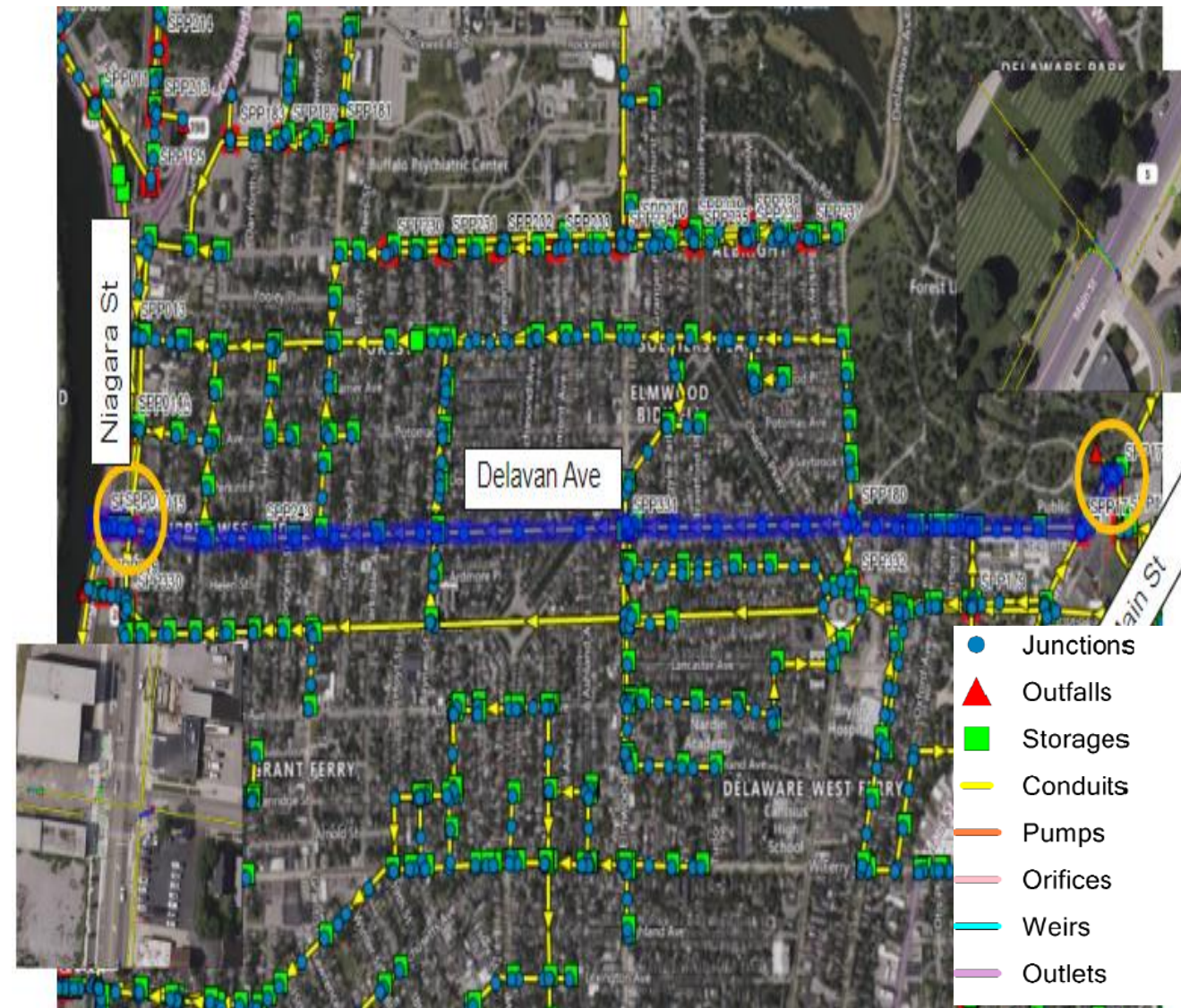
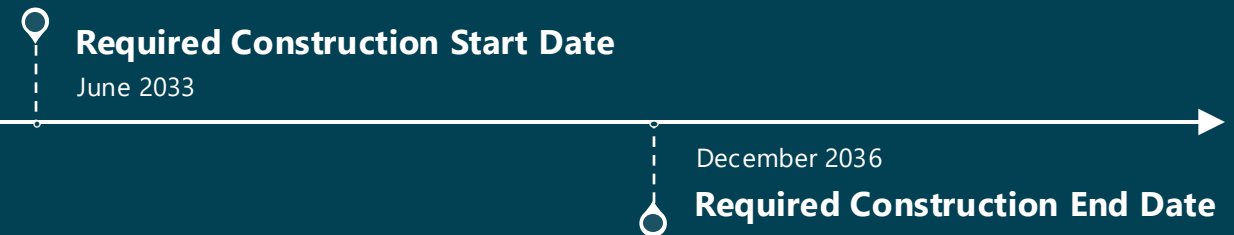
Project Description:

- **Past:** Water went to a treatment pipe, and any extra flowed into the Black Rock Canal.
- **1970s:** A gate sends all water straight to the canal; the treatment pipe is only used when it rains a lot.
- **Future:** Raise a barrier to let more water follow the natural creek, take pressure off drains, and use the treatment system more effectively.

Estimated Cost: \$5,500,000

Waterbody Impacted: Buffalo River

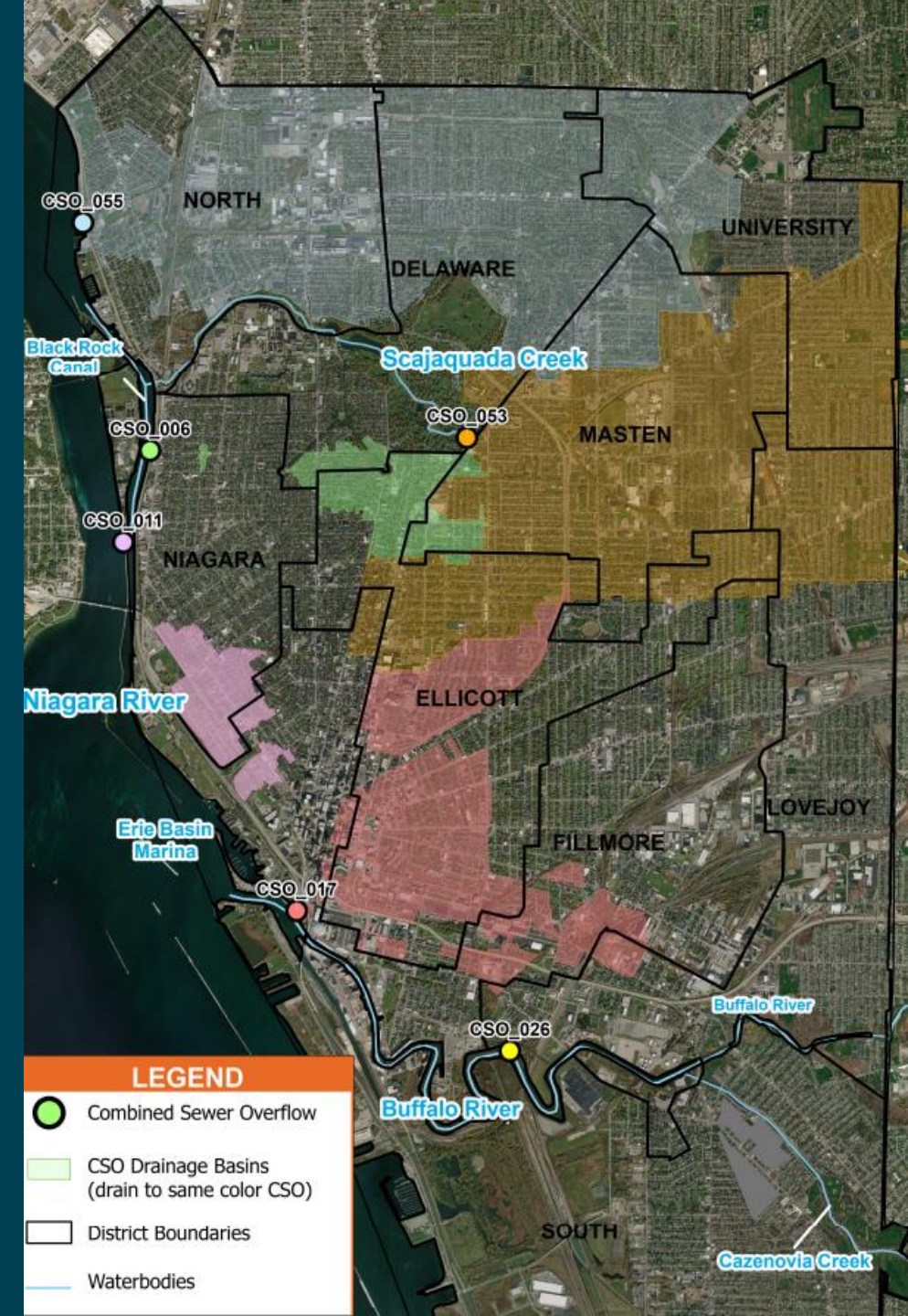
TIMELINE ▼



BSA Green Stormwater Infrastructure Program

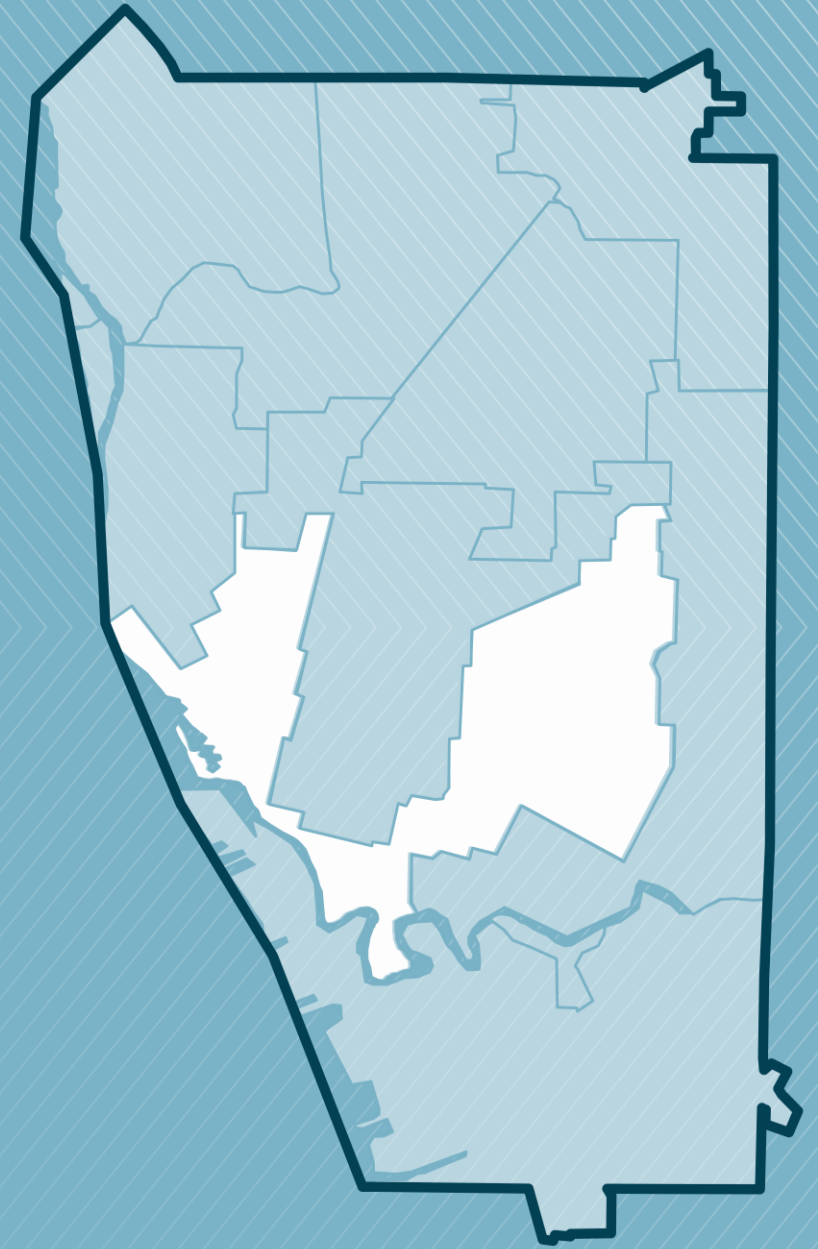
CITY WIDE GREEN INFRASTRUCTURE

| Impacted Waterbody | Land Management | Start Date | Completion Date |
|--------------------|---------------------|------------|-----------------|
| Scajaquada Creek | 16.7 acres managed | 3/2/2028 | 3/1/2034 |
| Black Rock Canal | 52.5 acres managed | 3/3/2031 | 3/1/2037 |
| Niagara River | 279.9 acres managed | 3/2/2032 | 3/1/2040 |
| Buffalo River | 163 acres managed | 3/3/2032 | 3/2/2039 |



Fillmore District

Specific Projects



Carolina & 4th St.

WATERFRONT PARK OFFLINE STORAGE (OLS)

Project Description:

- This project consists of a new 5.55 million - gallon (MG) underground offline storage tank
- Reduces overflow risk and eases Bird Island Treatment Facility load
- The tank will dewater through an attached pump station

Estimated Cost: \$62,440,000

Waterbody Impacted: Erie Basin Marina



TIMELINE ▼



Trenton & 4th St.

SEWER PATROL POINT (SPP 206A&B)

Project Description:

- Proposed real-time control (RTC) project details:
 - Adds a dewatering gate
 - Connects to the South Interceptor

Gate Operation:

- Opens to send more flow to the South Interceptor when it has available capacity
- Closes when near full capacity

Estimated Cost: \$4,000,000

Waterbody Impacted: Erie Basin Marina

TIMELINE ▼



Virginia & Busti

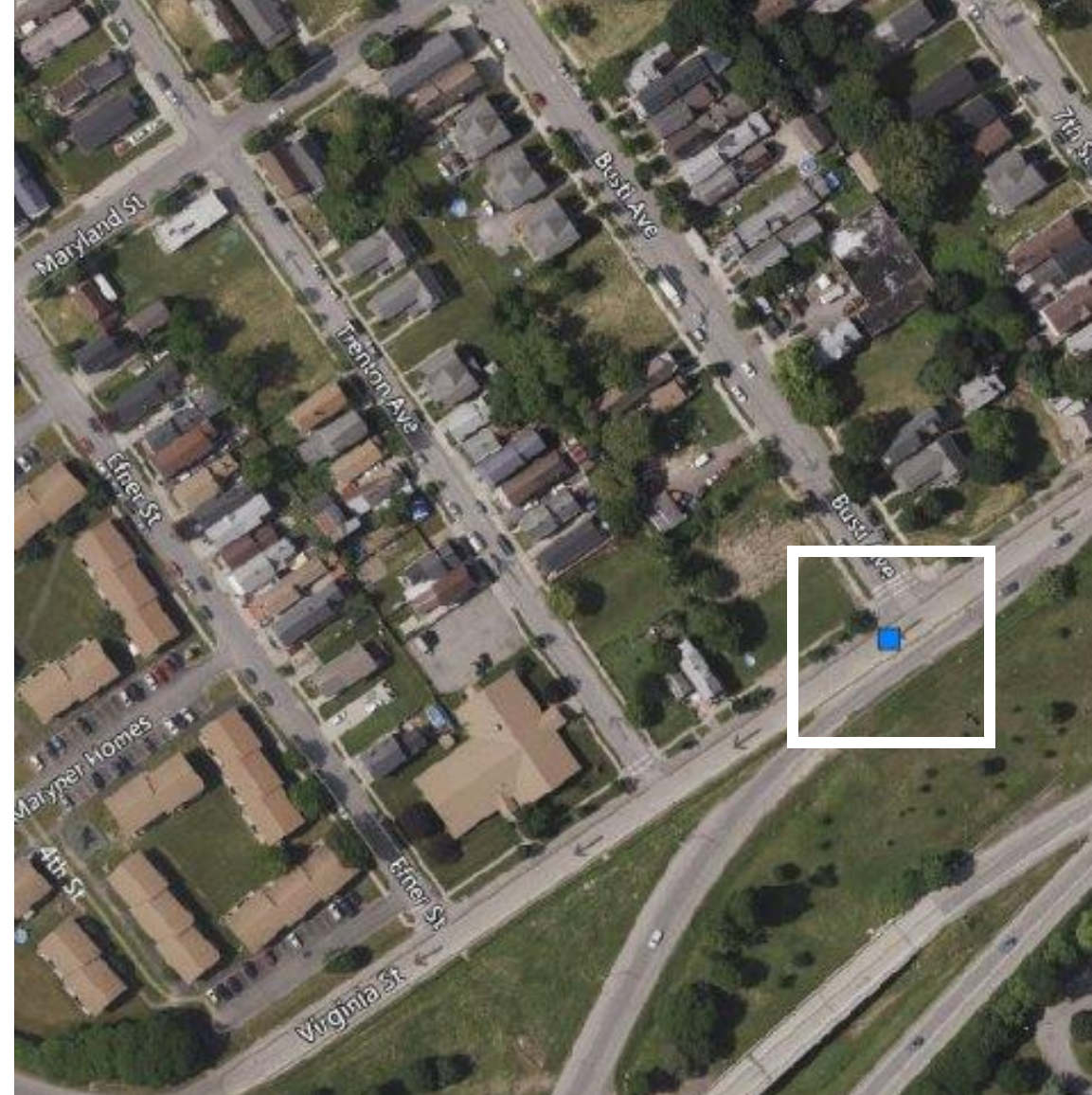
SEWER PATROL POINT (SPP 304)

Project Description:

- Remove the underflow orifice plate, which is a structure that restricts waterflow underneath a barrier
- All work will be done within the manhole

Estimated Cost: \$60,000

Waterbody Impacted: Black Rock Canal



TIMELINE ▼



Break / Q&A

Community Engagement & Stakeholder Outreach

Program Management Impact:
Equity Indicators + Desired Outcomes

1
Community Ownership

2
Capacity Building

3
Healthy Communities

4
Heritage Preservation

5
Sustainable Wealth Creation

6
New and Reformed Policy for Sustainable Development

7
Growth Management and Neighborhood Development



Observation



Discovery

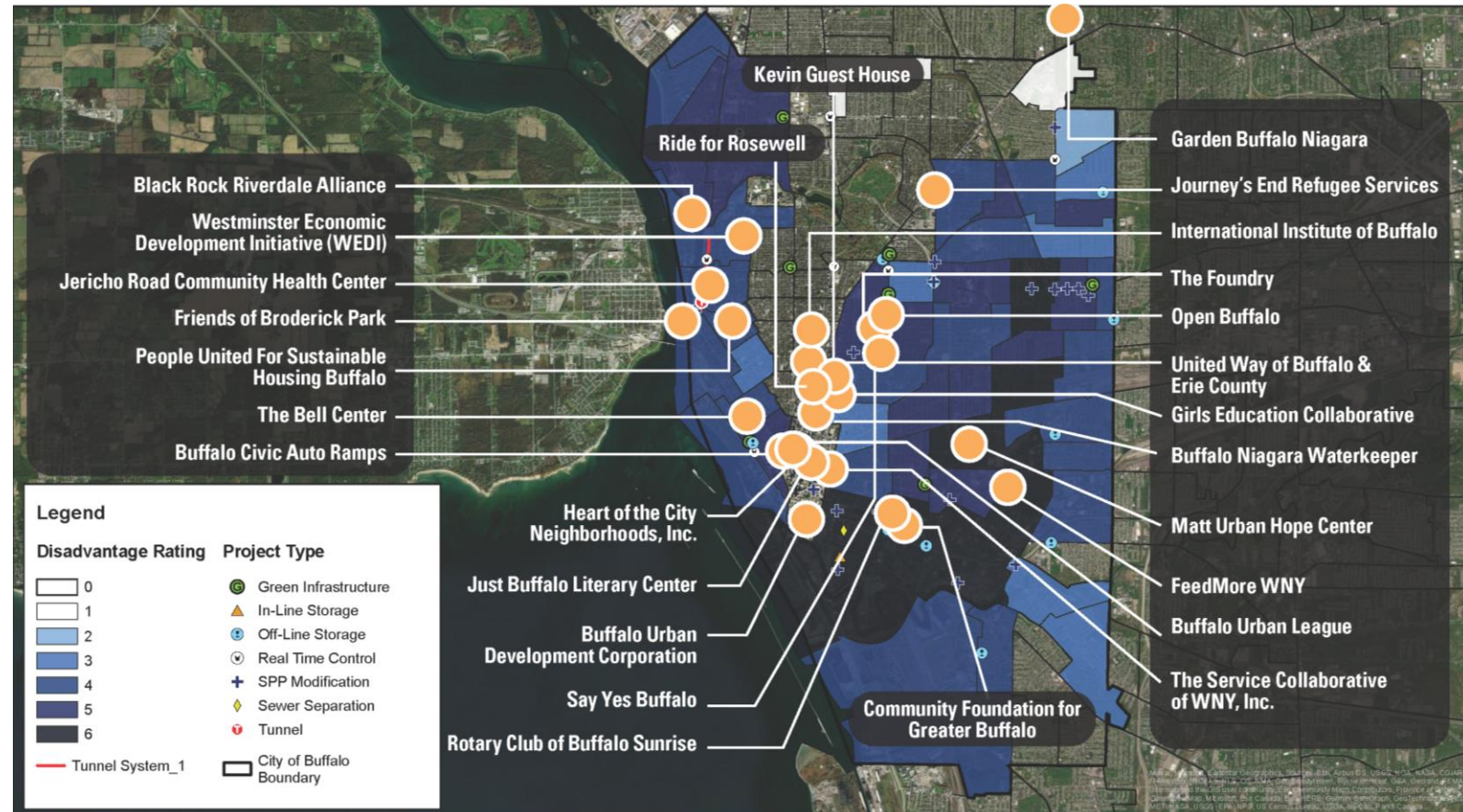


Planning and Application

Partner with Anchor Institutions to Reach the Community

Build a robust **Community Benefits Program** of community partnerships and **Stakeholder Advisory Committee** comprised of community leaders and residents

Accountability + Transparency:
Indicators, representation, how are resources distributed and made available



Stakeholder Advisory Committee (SAC)

The purpose of the Stakeholder Advisory Committee (SAC) for the Buffalo Sewer Authority's Queen City Clean Waters Initiative is to serve as a vital bridge between the project team and the diverse communities of Buffalo. The SAC ensures that community perspectives, concerns, and insights are actively incorporated into the initiative's planning, implementation, and evaluation.

Organizations & Agencies Represented:

- Northland Workforce Training Center
- PUSH Buffalo
- Buffalo Urban League
- Board of Block Clubs
- NAACP
- Jericho Road
- Local Initiatives Support Corporation (LISC)
- Buffalo Niagara Waterkeeper
- City of Buffalo Office of Strategic Planning (OSP)
- Buffalo Center for Health Equity






Buffalo Sewer wants to ensure construction and professional services contracts deliver a positive economic, environmental, and social impacts for residents.

Companies working with Buffalo Sewer are encouraged to support Buffalo nonprofits through volunteerism or financial contributions to defined community partners. The program will be included in contract terms and compliance monitoring to ensure effective participation.

COMMUNITY PARTNERSHIP PROGRAM **Coming in 2025**

BSA's Commitment to the Inclusion of DBE/MWBE Firms

PURPOSE

- 
- Create economic opportunity for Disadvantaged/Minority/ Women – Owned Business Enterprise (D/MBE/WBE) firms, including firms who are new to working with BSA and/or the City of Buffalo
 - Promote meaningful teaming arrangements, mentorship, and partnership between established, experienced firms and new and/or smaller firms

Opportunities to Stay Engaged

New! Queen City Clean Waters Interactive Website

[BUFFALOQCCW.ORG](https://buffaloqccw.org)

Join Our Virtual Community!

Join the Queen City Clean Waters Interactive Website! Explore, learn, and take action to protect our local waterways. Get involved today and make a difference!

About The Initiative

The Queen City Clean Waters Initiative will reduce overflows from the City's sewers by helping flow reach the Bird Island Wastewater Treatment Facility during wet weather, instead of entering Buffalo's creeks and river. Implementing this initiative, which includes 50+ sites in total, will cost approximately \$1B over the next 15 years including \$250M in treatment facility upgrades.

+ Vision

+ Mission

Take Our Survey

Your feedback will help shape cleaner, resilient, and equitable solutions for Buffalo!

Start Now >

We need your input!

What do you think would work best to improve our Storm Water System? (Green Infrastructure, Community Initiatives, Placemaking, etc).

Share Now >

Join Our Social Map

Discover, learn, and comment on sewer improvement projects in your neighborhood

Join Now >

FAQs

+ Why is Buffalo Sewer doing these projects?

Are there any community meetings or updates planned to keep the residents informed about the progress of the construction?

+ What can I expect during construction?

How will construction affect traffic in the area?

+ How will the construction impact local businesses and services?

Will there be changes to parking or public transportation during construction?

+ How is this project being funded?

What can I expect during construction?

Sewer Patrol Point (SPP 341A) (Kerns & Genesee)

Construction Timeline: June 2026 - December 2027

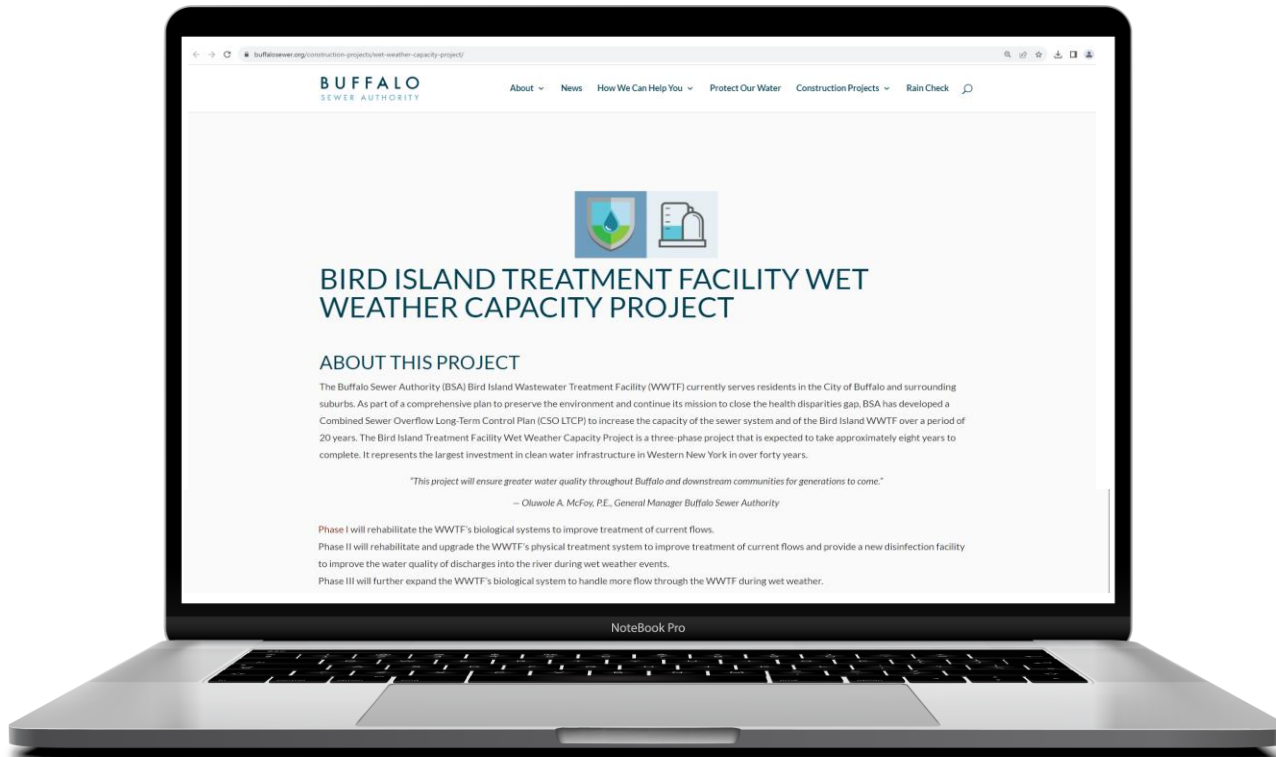
Description:

-A new chamber and drop shaft connection to the Scajaquada Tunnel will be built

[Read more >](#)

SPP Modification

Buffalo Sewer Authority Website



buffalosewer.org

Your BEST source of information!

- ✓ Consultant, Contractor, and Supplier Opportunities
- ✓ Construction Updates
- ✓ FAQs
- ✓ Board Meeting Minutes
- ✓ Public Participation Plans

Thank you!

GET IN TOUCH:



@BuffaloSewer



BuffaloSewer.org



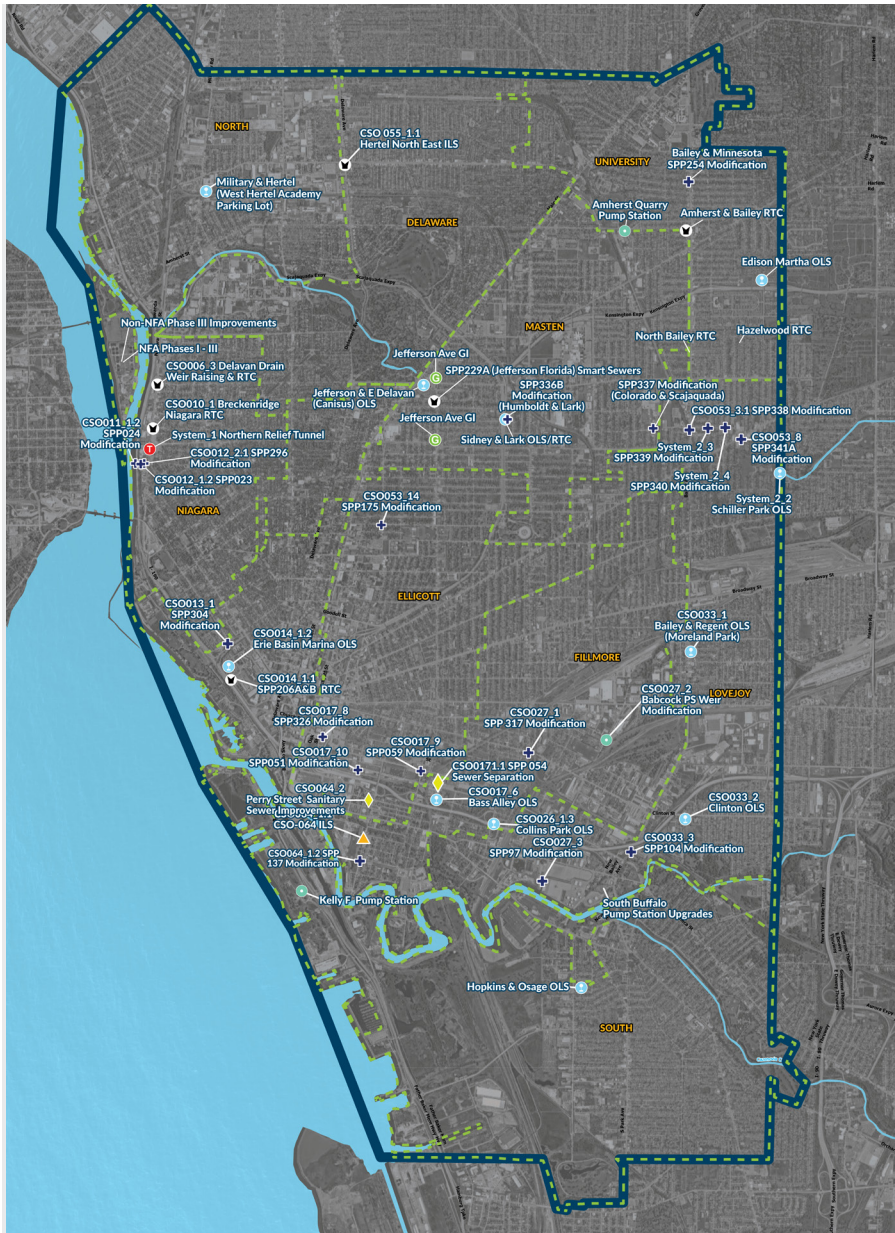
@BuffaloSewer



BuffaloSewerAuthority

VIRTUAL PUBLIC PARTICIPATION FORUM

Buffalo Sewer is planning \$1B in sewer projects over the next 15 years to reduce wet weather discharges of sewage and to improve our community.



LEARN MORE

A virtual Public Participation Forum will be held on:

Saturday, July 12, 2025
10:00 AM - 12:00 PM ET
(Online event)

REGISTER



<https://rb.gy/a9sq5w>



Queen City Clean Waters

Public Participation Forum

July 12, 2025 – Virtual (Microsoft Teams)

BSA Capital Projects Program Management Team:

TYLin | Greeley and Hansen
Water Solutions

Arcadis | JM Davidson Engineering | Hallmark Planning & Development | e3 Communications | Watts Architecture & Engineering | CORE
Environmental | Atlantic Testing Laboratories | Frandina Engineering and Land Surveying | KHEOPS Architecture, Engineering and Survey |
International Institute of Buffalo | Jade Stone Engineering | NASCO Construction Services | JKMuir | People Inc. | CWD Consulting

Opening Remarks



Online
Meeting



Microphones
Muted



Utilize the
Chat Feature



Live
Q&A



Recorded
Meeting



Closed
Caption

The presentation and recording will be posted on the Buffalo Sewer website.

Disclaimer

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Agenda



BACKGROUND



OVERALL PLAN



SPECIFIC PROJECTS WITHIN COUNCIL DISTRICTS



OPPORTUNITIES TO STAY ENGAGED

Key Terminology

- **Combined Sewer:** A sewer that collects both wastewater and stormwater in the same system
- **Combined Sewer Overflow (CSO):** CSOs occur when heavy rainfall or snowmelt overwhelms a combined sewer system. When this happens, untreated wastewater is discharged directly into nearby rivers, lakes, or coastal waters.
- **Green Infrastructure (GI):** involves planting vegetation and other natural elements in urban environments to absorb and treat stormwater where it lands. Through this process, plants and soils help slow down or prevent runoff from entering the sewer system.
- **In-Line Storage (ILS):** the storage of wastewater temporarily within the existing sewer pipes
- **Off-Line Storage (OLS):** A tank that holds extra wastewater when the sewer is full, then drains it to be treated when space becomes available
- **Real Time Control (RTC):** Sewer chambers with automatic gates that open and close to store and release water in order prevent overflows
- **Sewer Patrol Point (SPP):** A chamber that directs water to the treatment plant in dry weather, or to a storage area during heavy rainfall or snowmelt



CSO: Combined
Sewer Overflow



GI: Green
Infrastructure



ILS: In-line
Storage



OLS: Off-line
Storage Tank



RTC: Real Time
Control

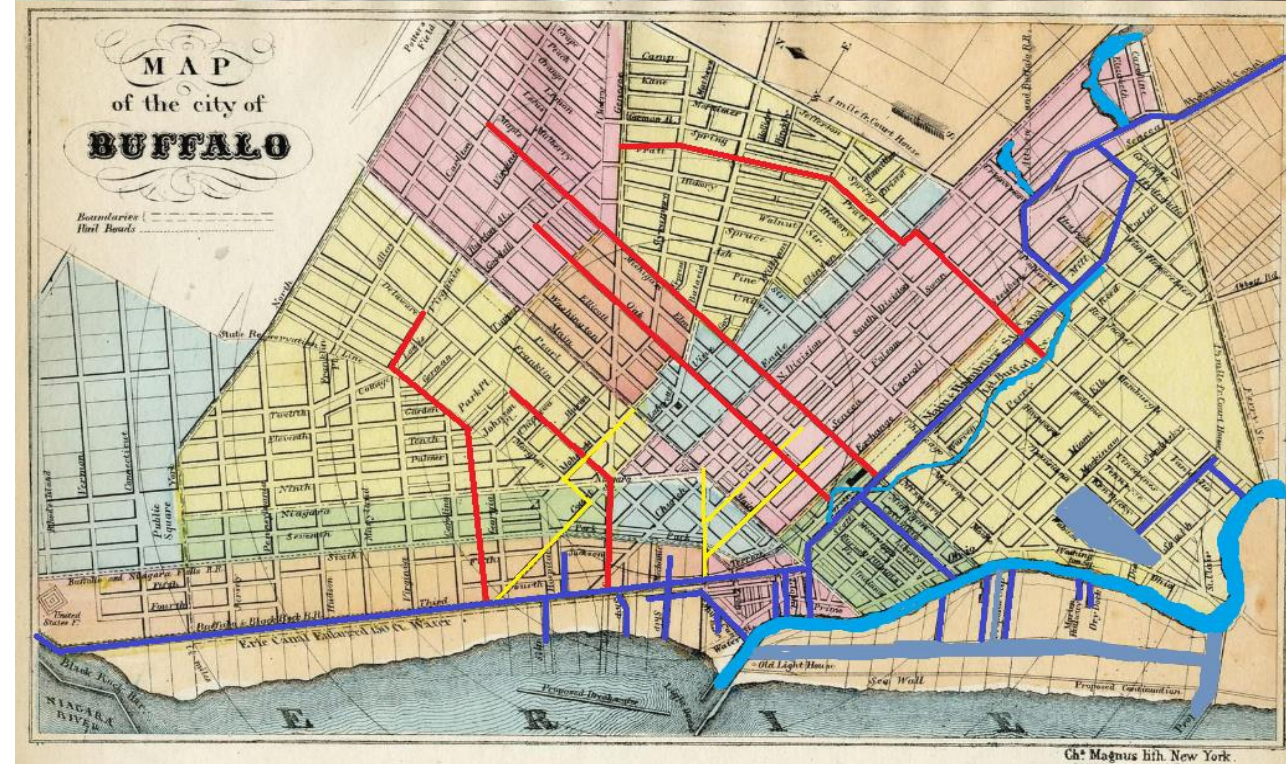


SPP: Sewer
Patrol Point

Background

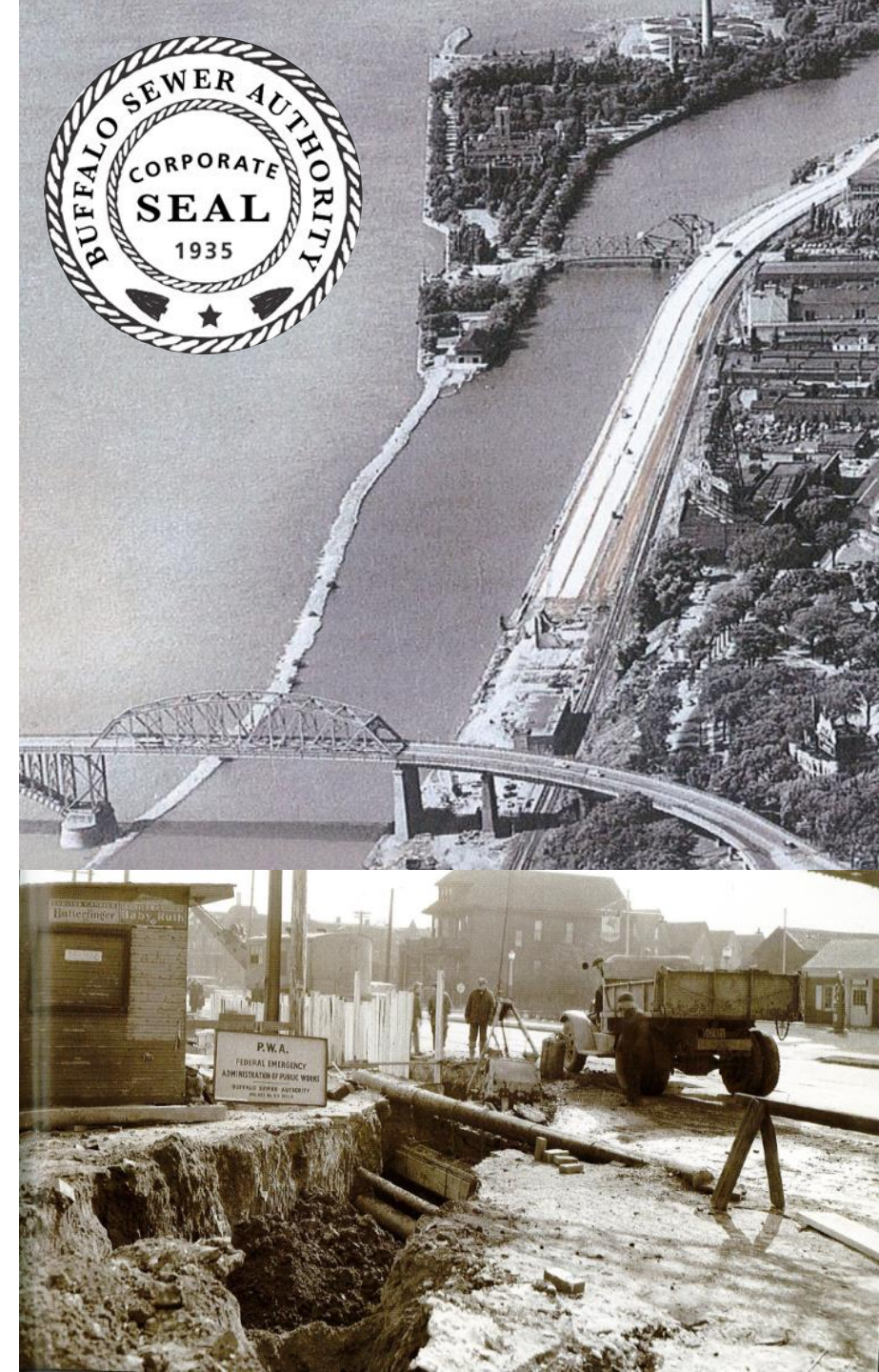
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NYS Route 33

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- Stormwater added to system
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- New trunk sewers constructed

I-198

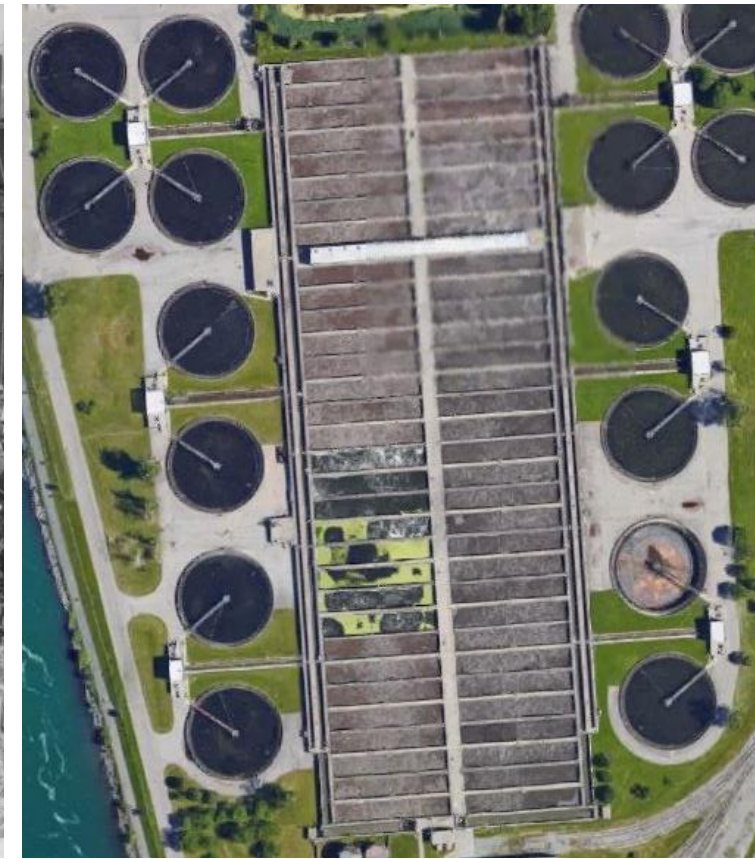
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I-190

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- On top of:
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 - Interceptors
 - Hamburg Drain

Clean Water Act (1972)

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- Weir Modifications
 - Diversion from Scajaquada Drain to Tunnel
 - Raising of Weirs
- Kelly Island Connection
- Backwater Gates
- Secondary Treatment Process





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NYSDEC/USEPA Request Additional Evaluations

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Negotiation of Consent Decree Begins

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2022

Revised collection system model is approved

2023

Queen City Clean Waters (51 proposed projects) submitted to NYSDEC

Sewer Patrol Points (SPP) Compliance

Proportion in Each Compliance Category

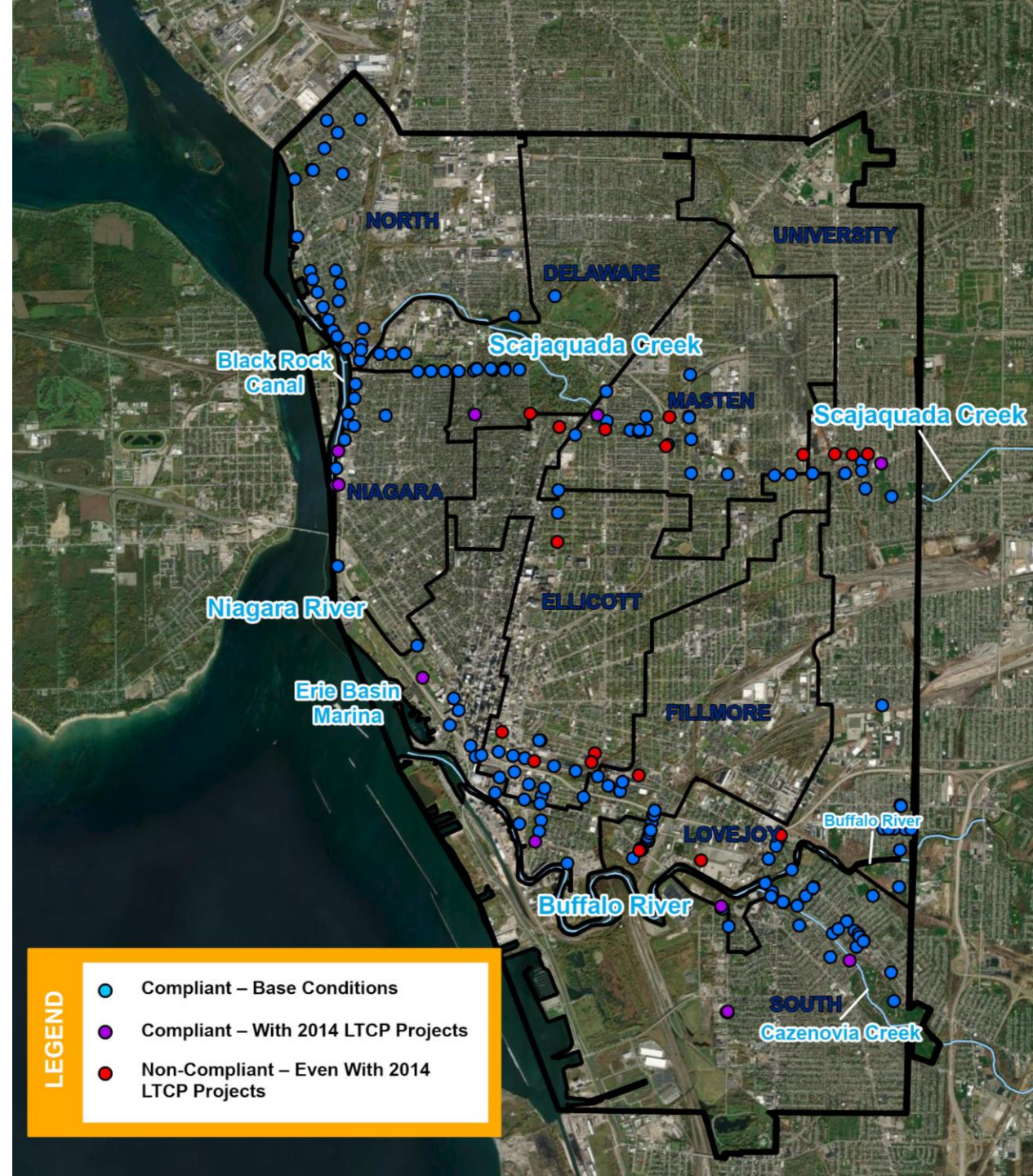
174

13

18

LEGEND

- Compliant – Base Conditions
- Compliant – With 2014 LTCP Projects
- Non-Compliant – Even With 2014 LTCP Projects



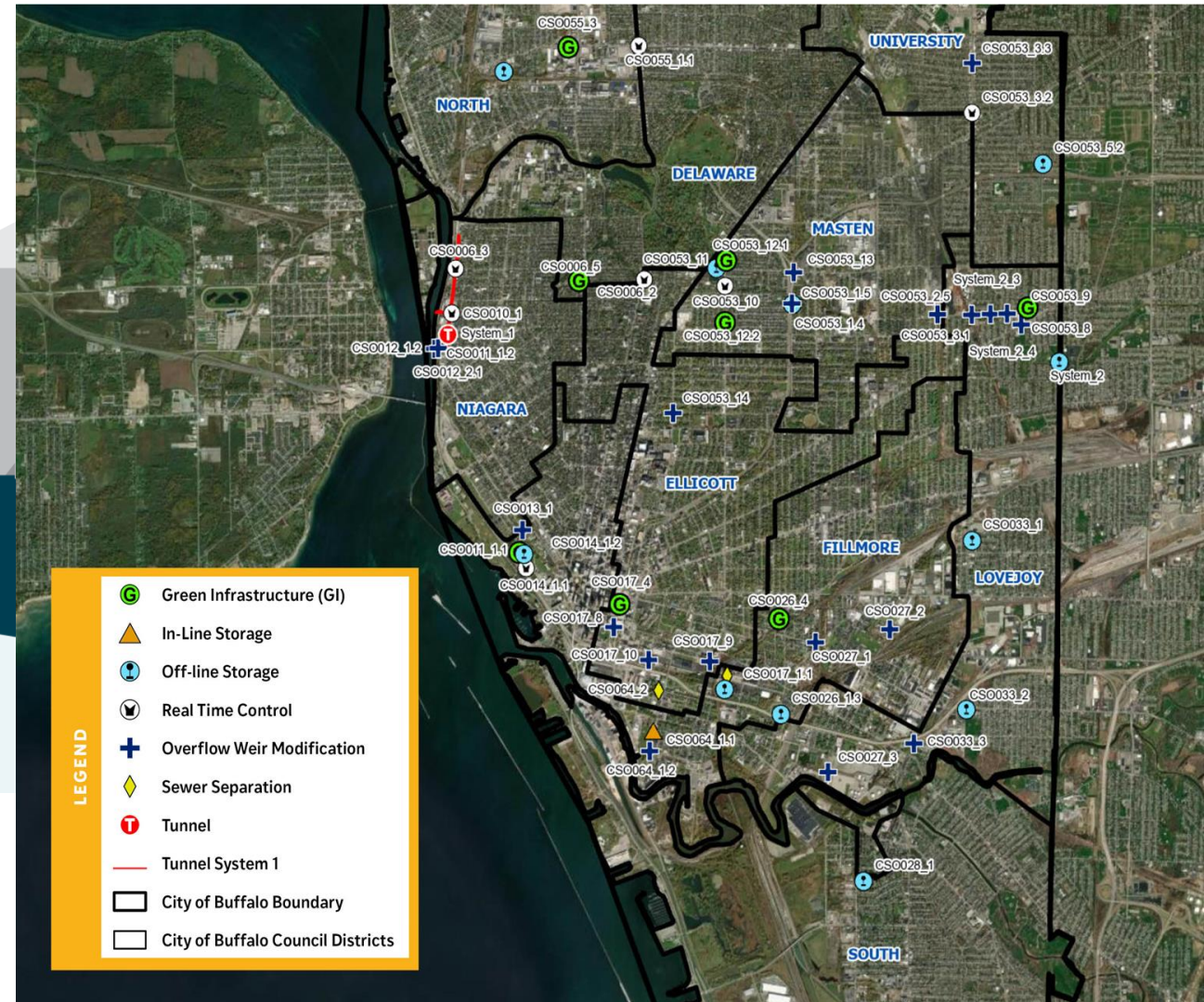
Queen City Clean Waters

PROGRAM OVERVIEW

50+
SITES

\$1
BILLION

15
YEARS



Queen City Clean Waters (QCCW) – Mission and Vision



VISION

Clean waters and a resilient Buffalo.



MISSION

To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

Overall Plan



Construction Impacts and Mitigation Measures

- During construction, residents can expect to see equipment and traffic cones off to one side of the road.
- Temporary disruptions, such as noise and dust, will be minimized as much as possible.
- Sewage odors will NOT be present in homes but may be present outside.
- Rodent control measures will be applied.



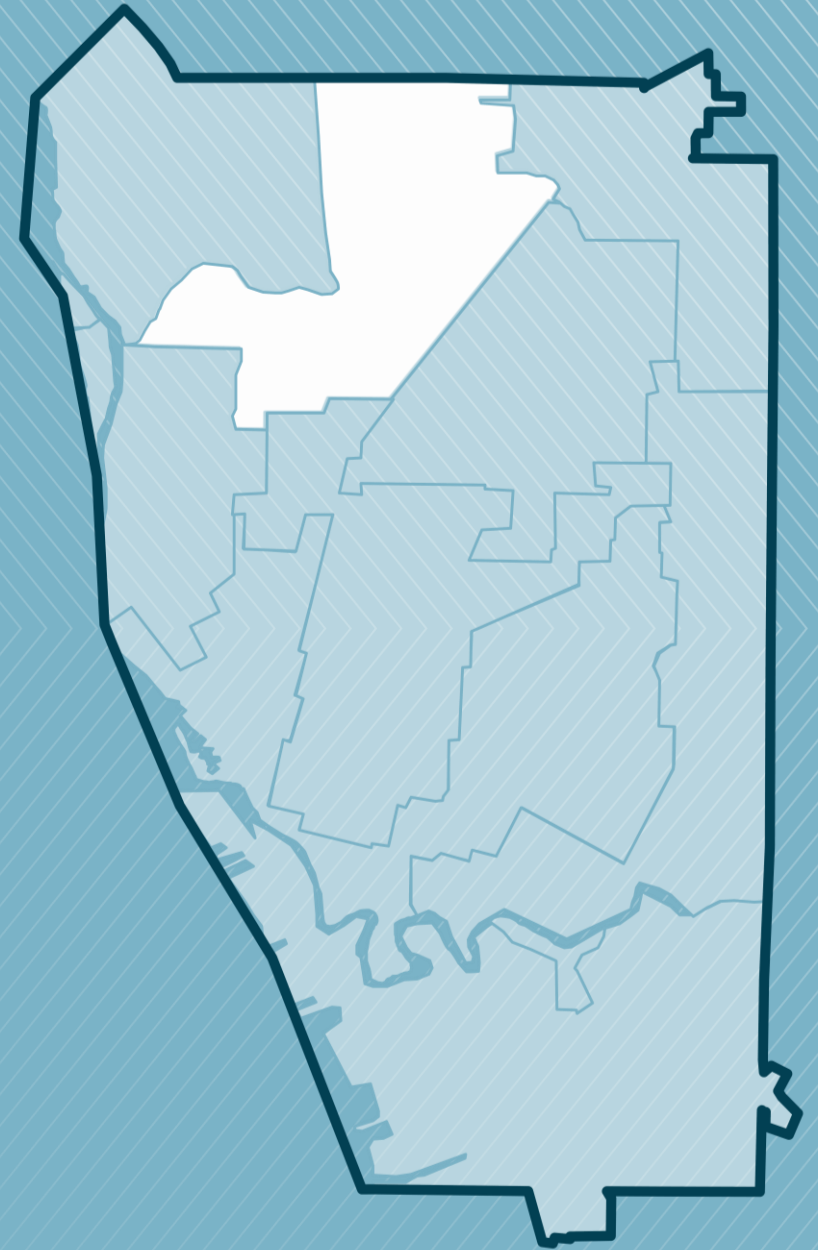
Potential Construction Impacts and Mitigation Measures

- New traffic patterns will be in place during construction, including:
 - Partial or full road closures
 - Sidewalk closures
 - Limited street parking
 - Possible detours (for vehicles, cyclists and pedestrians)/ relocated bus stop
 - Rodent control plans
 - Fencing and site visibility
- **Mitigation strategies will vary based on project specifics.**



Delaware District

Specific Projects



-Hertel North-East In-Line Storage (ILS)

Construction Timeline: Spring 2037 - Summer 2040

Description:

- Installation of a new level sensor within the sewer upstream from the intersection of Hertel and Deer. This sensor will communicate to the chamber at Hertel and Deer to build up flow within the sewer to temporarily store the flow until the Bird Island treatment facility has capacity to treat it. All work will be completed within existing manholes.



Gates Circle Real Time Control (RTC) IN CONSTRUCTION

Construction Timeline: Summer 2024 - Winter 2025

Description:

- A gate in the sewer manhole will be controlled in real-time.
- Extra equipment will also be added at the Niagara Meeting Station to help manage the gate.



Project Locations.



Green Infrastructure Projects.



Aerial View of Project Location.



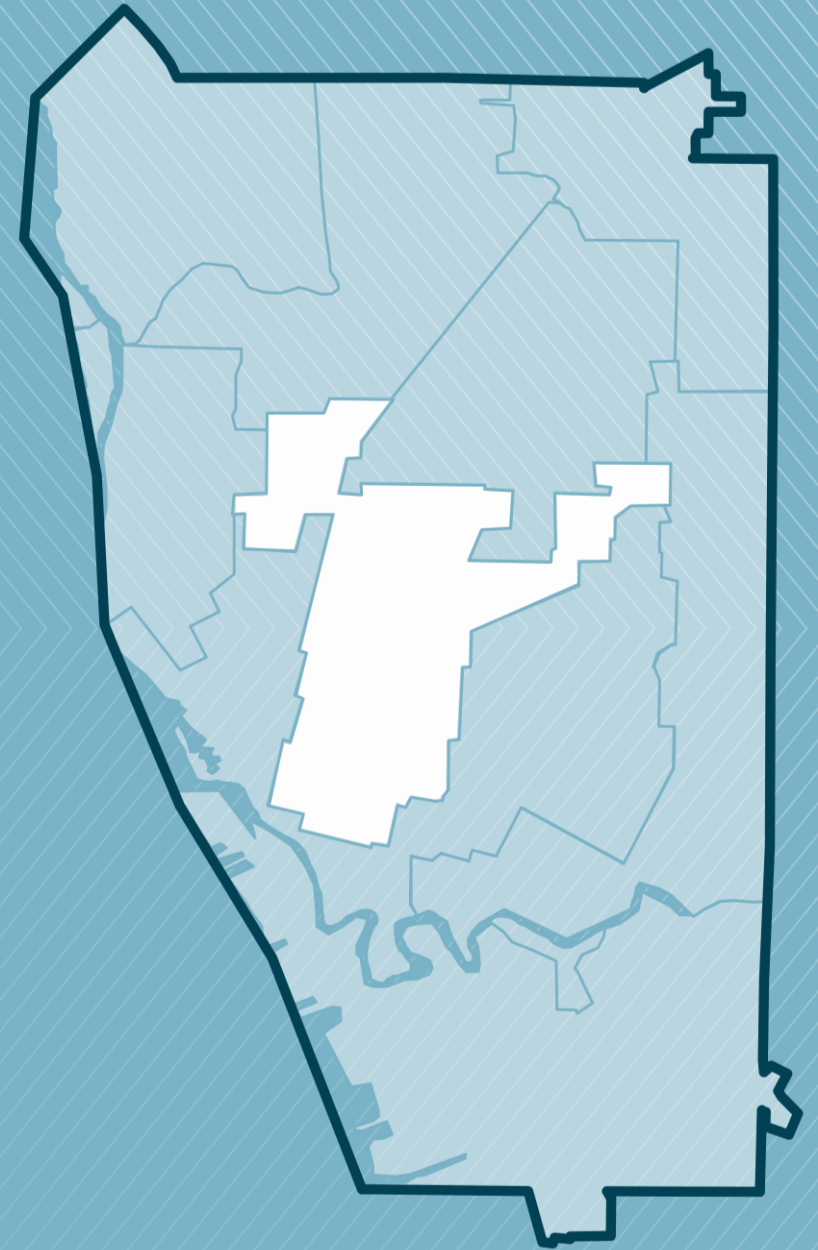
Major roads within the district.

Scan for more project information!



Ellicott District

Specific Projects



Gates Circle Real Time Control (RTC)

Construction Timeline: Summer 2024 - Winter 2025

IN CONSTRUCTION

Description:

- A gate in the manhole will be controlled in real-time.
- Extra equipment will also be added at the Niagara Meeting Station to help manage the gate.



Sewer Patrol Point (SPP 326) (Oak & Swan)

Construction Timeline: Spring 2028 - Fall 2029

Description:

- Currently envisioned as a modification to the existing chamber with access via a manhole, but could involve excavation along Swan Street from Oak Street to Ellicott Street.



Sewer Patrol Point (SPP 051) (Chicago & Exchange)

Construction Timeline: Spring 2031 - Fall 2032

Description:

- Internal modifications to existing chamber at the intersection of Exchange Street and Chicago Street; access will be via existing manholes.



Michigan Avenue Projects

Construction Timeline:
Summer 2026 - Winter 2027

Description:

- Three Locations:
- SPP175 - Michigan & Dodge
- SPP176 - Michigan & Riley
- SPP 177 - Michigan & Glenwood
- All work will be done within three manholes and residents will see traffic cones and signs while work is being completed.



Sewer Patrol Point (SPP 059) (Hamburg & Seneca)

Construction Timeline: Spring 2031 - Fall 2032

Description:

- Installation of a new sewer from the intersection of Hamburg Street and Seneca Street south to Perry Street.



Sewer Separation (SPP 054) (Larkin & Exchange)

Construction Timeline: Spring 2036 - Summer 2038

Description:

- Install a new storm sewer pipe on Exchange Street. Excavations will be necessary near Hamburg Street and Larkin Street along Exchange St.



Perry Street Sanitary Sewer (Perry & Louisiana)

Construction Timeline: Spring 2036 - Summer 2038

Description:

- Installation of a new sewer along Scott Street from Illinois to Louisiana and then along Perry to the Hamburg Pump Station.



Project Locations.



Green Infrastructure Projects.



Aerial View of Project Location.



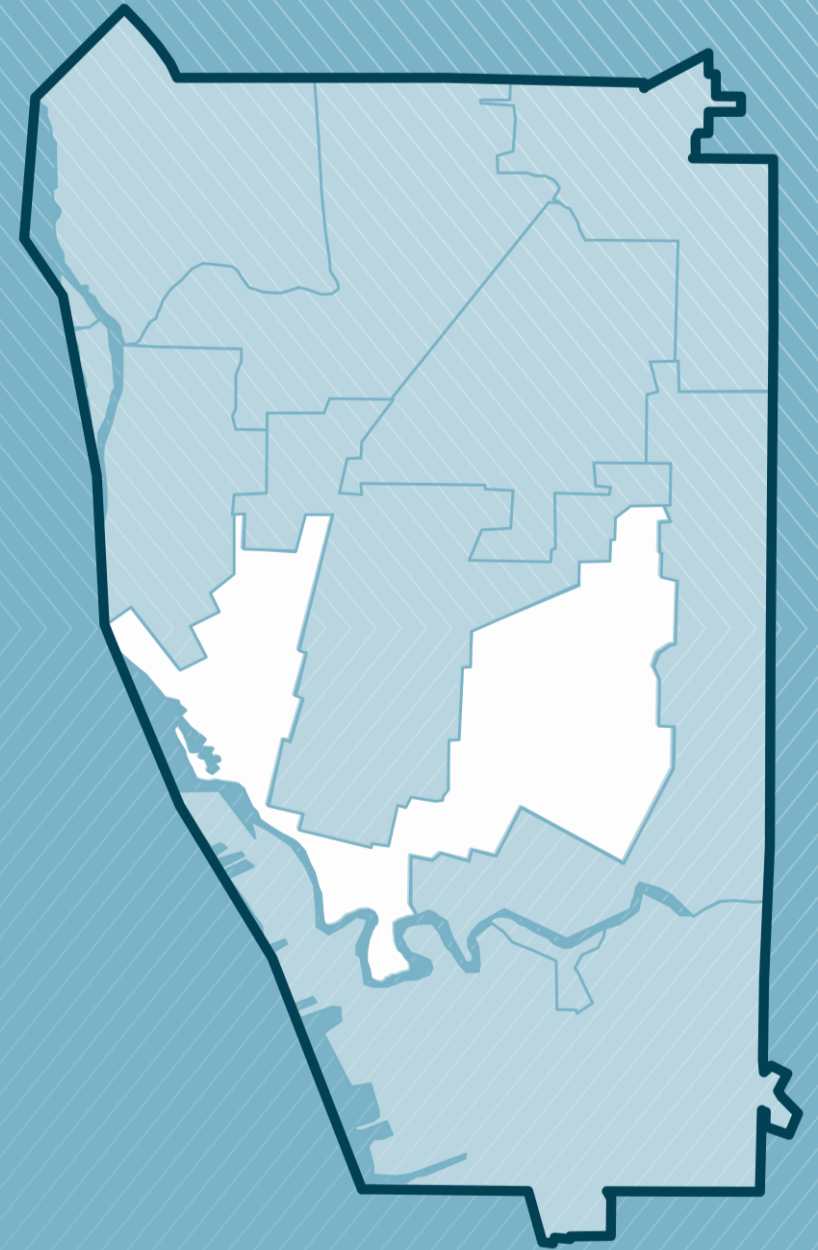
Major roads within the district.

Scan for more project information!



Fillmore District

Specific Projects



**In-Line Storage (ILS)
(Louisiana & Mackinaw)**

Construction Timeline: Spring 2033 - Spring 2035

Description:
• Replacement of the existing sewer along the west side of Louisiana Street between South Street and Republic Street with two larger sewers to temporarily store a combo of sanitary sewage and storm water during wet weather, until the Bird Island Treatment Facility has the available capacity to treat it.



**Sewer Patrol Point (SPP 304)
(Virginia & Busti)**

Construction Timeline: Spring 2028 - Fall 2029

Description:
• Internal modifications to the existing structure, all work can be completed via access through the existing manhole.



**Erie Basin Marina Offline Storage (OLS)
(Carolina & 4th St)**

Construction Timeline: Spring 2029 - Spring 2034

Description:
• Installation of a new 5.55 million gallon storage tank to temporarily store sanitary sewage and storm water until the Bird Island Treatment Facility has enough capacity to treat the stored flow. A pumping station will also be located at this site to convey flow to the Bird Island Treatment Facility once the facility has capacity.



**Sewer Patrol Point (SPP 206A&B)
(Trenton & 4th St)**

Construction Timeline: Winter 2028 - Winter 2030

Description:
• Installation of a new chamber and gate within the chamber, to redirect sanitary sewage and storm water between two large sewer pipes to whichever pipe has capacity at a particular time.



**Sewer Separation (SPP 054)
(Larkin & Exchange)**

Construction Timeline: Spring 2036 - Summer 2038

Description:
• Disconnection of an existing sewer pipe along Exchange Street from the combined sewer system for use as a storm-only sewer pipe. Excavations will be necessary near Hamburg Street and Larkin Street along Exchange Street.



**Clinton Park Offline Storage
(Smith & Clifford)**

Construction Timeline: Summer 2030 - Spring 2035

Description:
• Installation of a new 2.56 million gallon underground storage tank at Clinton Park (to temporarily store sanitary sewage and storm water until the Bird Island Treatment Facility has enough capacity to treat the stored flow. A pumping station will also be located at this site to convey flow to the Bird Island Treatment Facility once the facility has capacity.



**Sewer Patrol Point (SPP 317)
(Fillmore & Clinton)**

Construction Timeline: Spring 2029 - Fall 2030

Description:
• Internal modifications to an existing sewer chamber at the intersection of Fillmore and Clinton. Access for work will be through existing manhole.



**Pump Station Weir Modification
(Babcock & Howard)**

Construction Timeline: Spring 2029 - Spring 2031

Description:
• Internal modifications to an existing sewer chamber near Babcock Pump Station. Access for work will be through an existing manhole.



**Bass Alley Offline Storage (OLS)
(Larkin & Roseville)**

Construction Timeline: Spring 2034 - Spring 2039

Description:
• Installation of a new 3.66 million gallon underground storage tank at the end of Bass Alley (adjacent to the railroad) to temporarily store sanitary sewage and storm water until the Bird Island Treatment Facility has enough capacity to treat the stored flow. A pumping station will also be located at this site to convey flow to the Bird Island Treatment Facility once the facility has capacity.



**Sewer Patrol Point (SPP 137)
(Louisiana & Republic)**

Construction Timeline: Spring 2032 - Fall 2033

Description:
• Internal modifications to an existing structure at the intersection of Louisiana Street and Republic Street. Access will be via existing manhole.



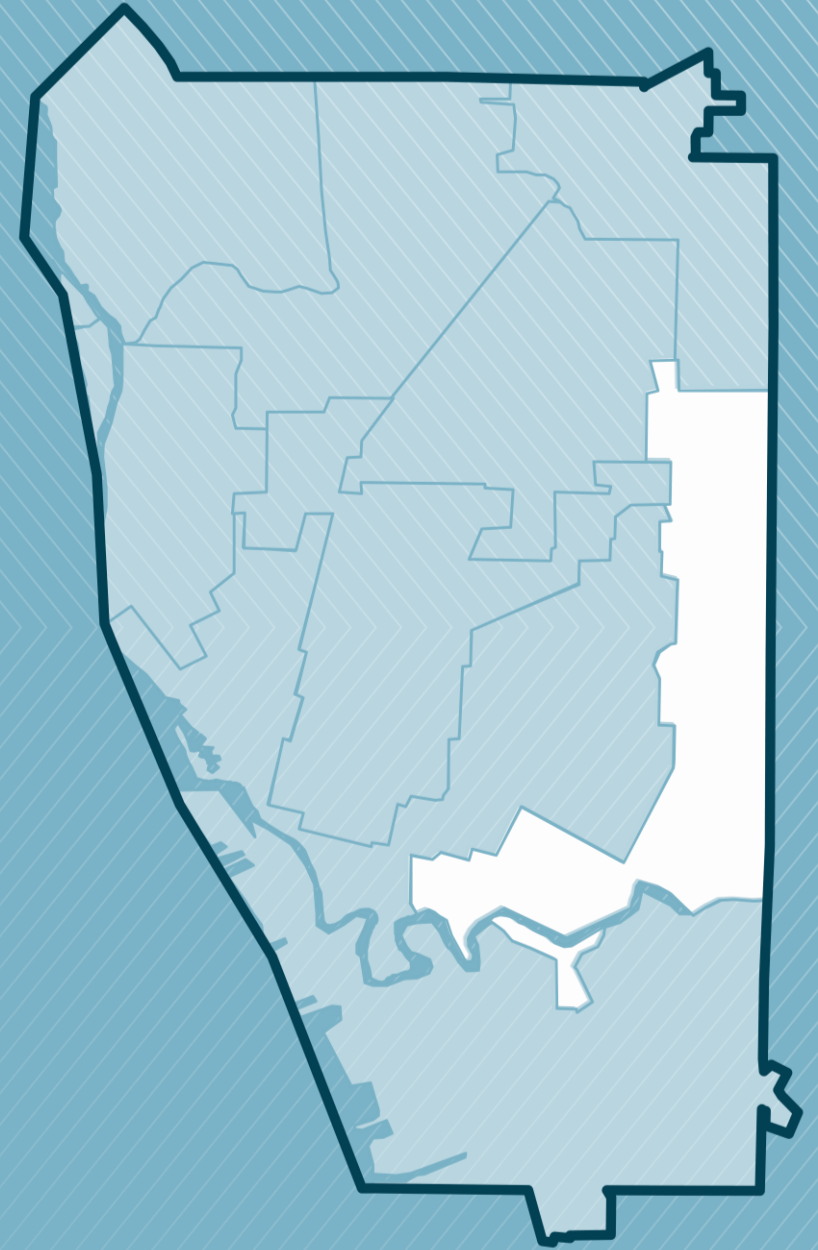
-  Project Locations.
-  Green Infrastructure Projects.
-  Aerial View of Project Location.
-  Major roads within the district.

Scan for more project information!



Lovejoy District

Specific Projects



**Sewer Patrol Point (SPP 339)
(Kerns & Texas)**

Construction Timeline: Spring 2027 - Fall 2028

Description:

- A new shaft and associated access chamber to the Scajiquada Tunnel will be built, requiring deep excavation within Texas Street, just north of Kerns. Modifications in the existing chamber are also required.



**Sewer Patrol Point (SPP 341A)
(Kerns & Genesee)**

Construction Timeline: Summer 2026 - Winter 2027

Description:

- A new shaft and associated access chamber to the Scajiquada Tunnel will be built, requiring deep excavation along the north side of Genesee Street, across Genesee Street and into the northeast corner of Schiller Park near Countess Avenue. Modification in the existing chamber along the north side of Genesee Street are also required.



**Sewer Patrol Point (SPP 338) (Bailey & Kerns)
IN CONSTRUCTION**

Construction Timeline: Fall 2024 - Spring 2026

Description:

- Install a new manhole in the Bailey and Kerns intersection, electrical duct banks, and a control box near the sidewalk.



**Clinton St. Offline Storage (OLS)
Houghton Park (Clinton &
Kelburn-Glenn)**

Construction Timeline: Winter 2032 - Spring 2036

Description:

- Below ground wastewater storage tank in Houghton Park (Clinton & Kelburn-Glenn)



Schiller Park Offline Storage

Construction Timeline: Summer 2028 - Spring 2033

Description:

- Installation of a new 8 million gallon storage tank underneath a portion of Schiller Park to store sanitary sewage and storm water until the Bird Island Treatment Facility has enough capacity to treat the stored flow.



Sewer Patrol Point (SPP 340) (Kerns & Hagen)

Construction Timeline: Spring 2027 - Spring 2029

Description:

- New chamber will be constructed in this area with a new gate to prevent backflow from the Scajiquada Drain into the Scajiquada Tunnel. Modifications in the existing chamber are also required.

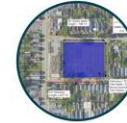


**Moreland Park Offline Storage (OLS)
(Bailey & Regent)**

Construction Timeline: Spring 2035 - Spring 2040

Description:

- Below ground wastewater storage tank in Moreland Park.



**Sewer Patrol Point (SPP 097)
(Babcock & South of Elk St.)**

Construction Timeline: Spring 2031 - Fall 2032

Description:

- Replace an existing sewer on Babcock Street between Elk Street and the Buffalo River.



**Sewer Patrol Point (SPP 104)
(Bailey South of I-190 Overpass)**

Construction Timeline: Spring 2031 - Fall 2032

Description:

- All work will be done within the existing manhole. Residents will see traffic cones and signs, as well as possible lane closures, while work is being completed.



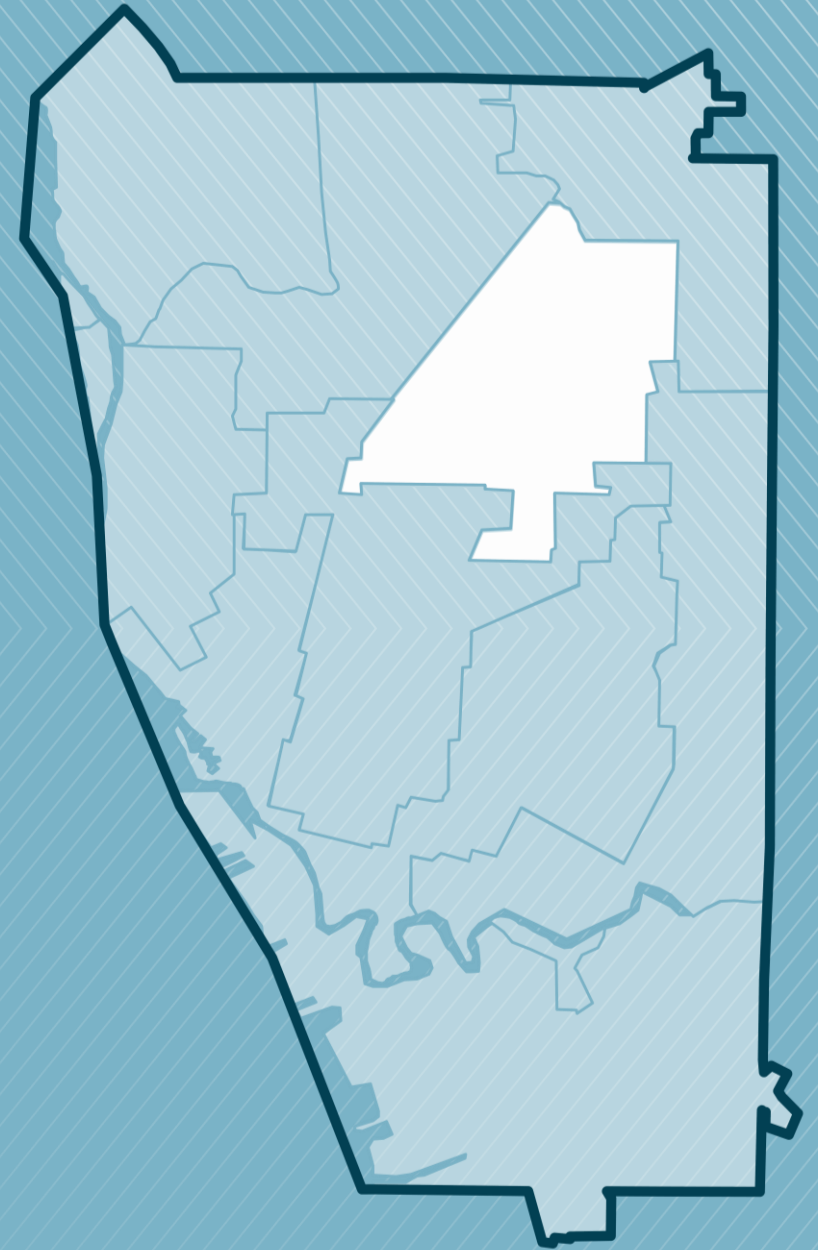
- Project Locations.
- Green Infrastructure Projects.
- Aerial View of Project Location.
- Major roads within the district.

Scan for more project information!



Masten District

Specific Projects



Real Time Control Chamber at Sewer Patrol Point (SPP 229A)

IN CONSTRUCTION

Construction Timeline:
Spring 2025 - Fall 2025

Description:

- Install new sanitary sewer, storm sewer, water-line and a stormwater treatment device and replace lead water services encountered. Remove and install new trees, sidewalks and pavement.



Sewer Patrol Point (SPP 177) (Michigan & Glenwood)

Construction Timeline:
Summer 2026 - Winter 2027

Description:

- Three Locations:
 - SPP175 - Michigan & Dodge
 - SPP176 - Michigan & Riley
 - SPP 177 - Michigan & Glenwood
- All work will be done within three manholes and residents will see traffic cones and signs while work is being completed.



Offline Storage (OLS) (Jefferson & E Delavan)

Construction Timeline:
(Upcoming 2028 - 2032)

Description:

- Below-ground wastewater storage tank, under the parking lot at Jefferson Avenue and East Delavan Avenue



Sidney Street Offline Storage (OLS)(Sidney & Lark)

Construction Timeline:
(Upcoming 2028 - 2032)

Description:

- 1.) Install a new sewer, chamber, and drop shaft connection to the Scajaquada Tunnel, OR
- 2.) Install a new below-ground wastewater storage tank.



BSA Green Infrastructure Projects



Combined Sanitary & Storm Smart Sewer (Bailey & Amherst)

IN CONSTRUCTION

Construction Timeline:
Summer 2024 - Fall 2025

Description:

- Install a gate in the sewer and a control box near the sidewalk.



Sewer Patrol Point (SPP 337) (Colorado & Scajaquada)

Construction Timeline:
Spring 2027 - Winter 2028

Description:

- Install a new chamber and drop shaft connection to the Scajaquada Tunnel. Industrial site entrance will be shifted west during construction, but local traffic should not be affected. Traffic cones and signs will be present.



Sewer Patrol Point (SPP 336B) (Humbolt & Lark)

Construction Timeline:
Summer 2026 - Winter 2027

Description:

- All work will be done within the manhole and residents will see traffic cones and signs while work is being completed.



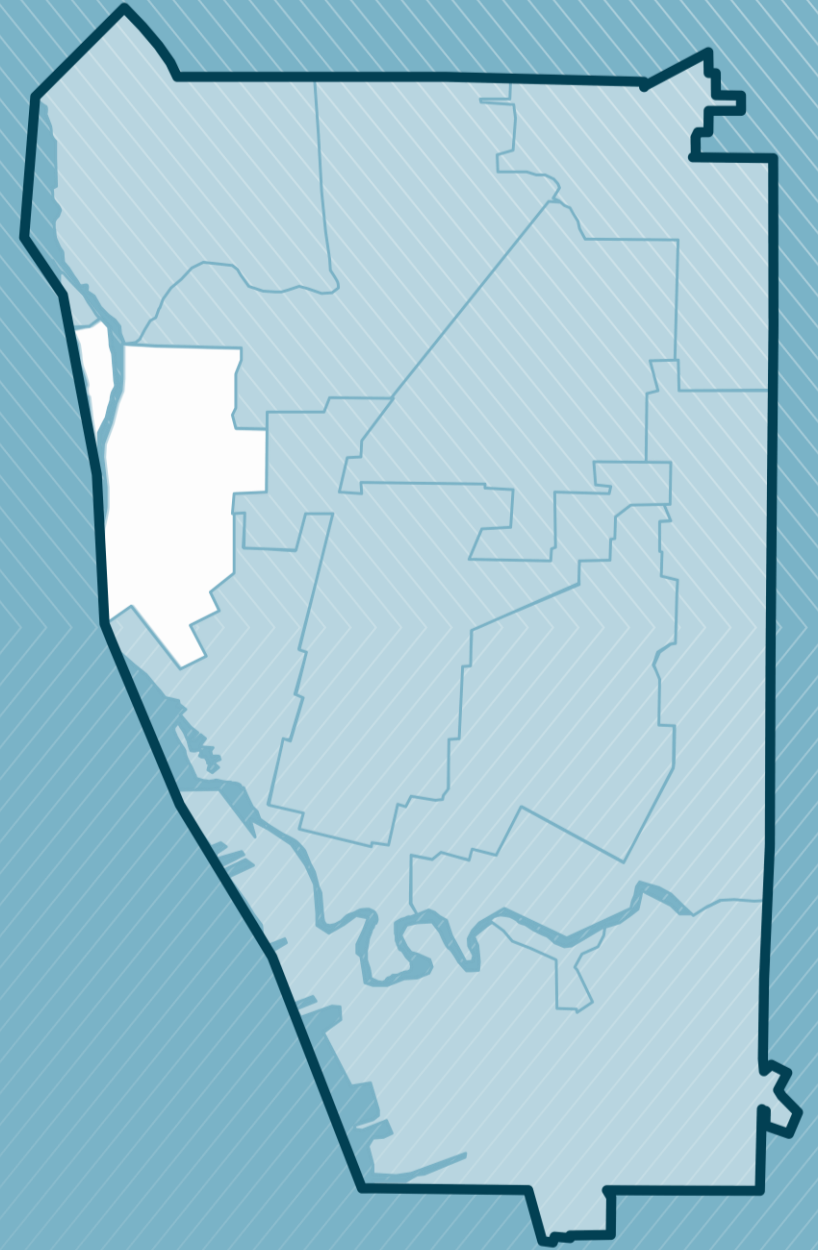
- Project Locations.
- Green Infrastructure Projects.
- Aerial View of Project Location.
- Major roads within the district.

Scan for more project information!



Niagara District

Specific Projects



Northern Relief Tunnel (Niagara & Gull)
Construction Timeline: Summer 2033 - Summer 2040
Description:
• Installation of new deep 12-ft diameter tunnel from Tonawanda Street to Albany Street to store a combination of sanitary sewage and storm water during wet weather until the Bird Island Treatment Facility has capacity to treat it. By storing the flow temporarily, the amount of flow discharged to the Niagara River without treatment is significantly decreased.



SPP 023 (Niagara Thruway & Albany St)
Construction Timeline: Spring 2028 - Fall 2029
Description:
• Internal modifications to the existing structure, access through existing manhole.



SPP 024 (Niagara Thruway & Albany St)
Construction Timeline: Spring 2028 - Fall 2029
Description:
• Currently envisioned as modifications to the existing sewer chamber, but alternatives are being evaluated as the chamber is difficult to access.



SPP 296 (Niagara Thruway & Albany St)
Construction Timeline: Spring 2028 - Fall 2029
Description:
• Internal modifications to the existing structure, access through existing manhole.



Delavan Drain Real Time Control (SPP 170A) (Niagara & W. Delavan)

Construction Timeline: Winter 2033 - Spring 2036

Description:
• Installation of an automatically controlled gate that will adjust based on sewer level to balance flows between the Delavan Drain sewer and the Scajaquada Drain to store flow where capacity may exist. This will involve opening up the existing structure at the intersection of West Delavan and Niagara Street and installing control elements.



CSO Project (Breckenridge Street)

Construction Timeline: Summer 2025 - Winter 2029

Description:
• Lining of the Breckenridge sewer from West to Herkimer, installation of new waterline, sewer, and manholes along West Avenue from Breckenridge to Lafayette, installation of a new drop manhole and chamber to the Scajaquada Tunnel (requiring deep excavation) at the intersection of West and Lafayette.



SPP 304 (Virginia & Busti)

Construction Timeline: Spring 2028 - Fall 2029

Description:
• Internal modifications to the existing structure, all work can be completed via access through existing manhole.



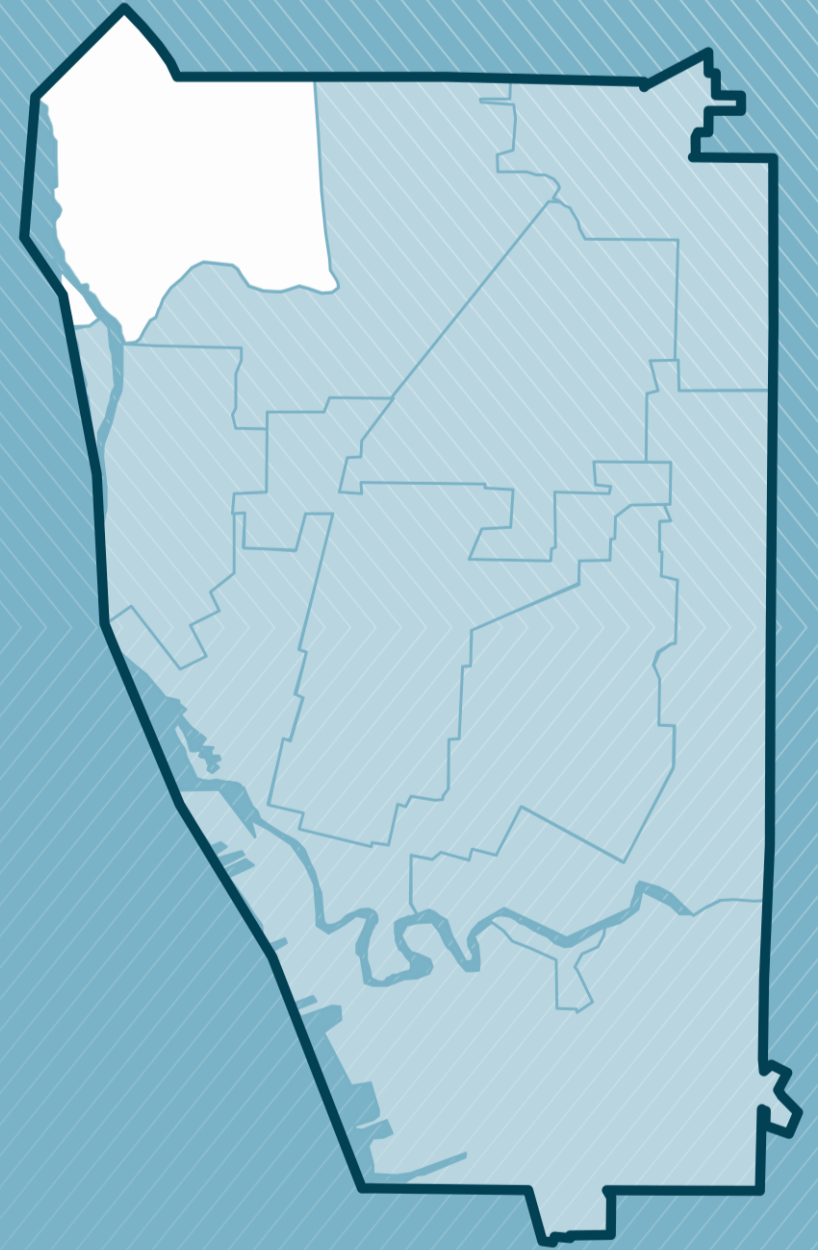
-  Project Locations.
-  Green Infrastructure Projects.
-  Aerial View of Project Location.
-  Major roads within the district.

Scan for more project information!



North District

Specific Projects



Hertel North-East In-Line Storage (ILS)

Construction Timeline: Spring 2037 - Summer 2040

Description:

- Installation of a new level sensor within the sewer upstream from the intersection of Hertel and Deer. This sensor will communicate to the chamber at Hertel and Deer to build up flow within the sewer to temporarily store the flow until the Bird Island Treatment Facility has capacity to treat it. All work will be completed within existing manholes.

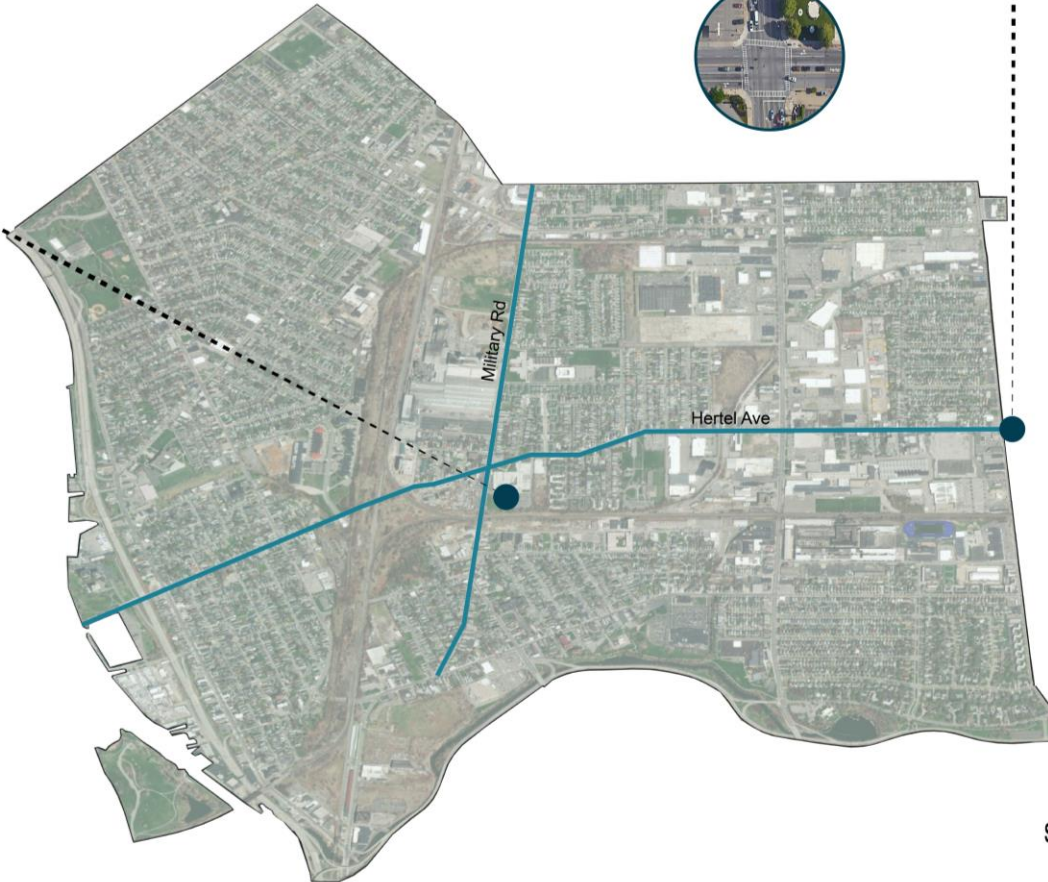


Military Road Offline Storage OLS (Military & Hertel)

Construction Timeline: Upcoming (2030-2037)

Description:

- Install 11.55 million gallon tank below ground wastewater storage tank in the West Hertel Academy parking lot, near the intersection of Hertel Avenue and Military Road. This tank will store sanitary sewage and storm water until the Bird Island Treatment Facility has enough capacity to treat the stored flow. By storing flow, the the sewer installation, the modifications at the chamber will be through access at the existing manholes.



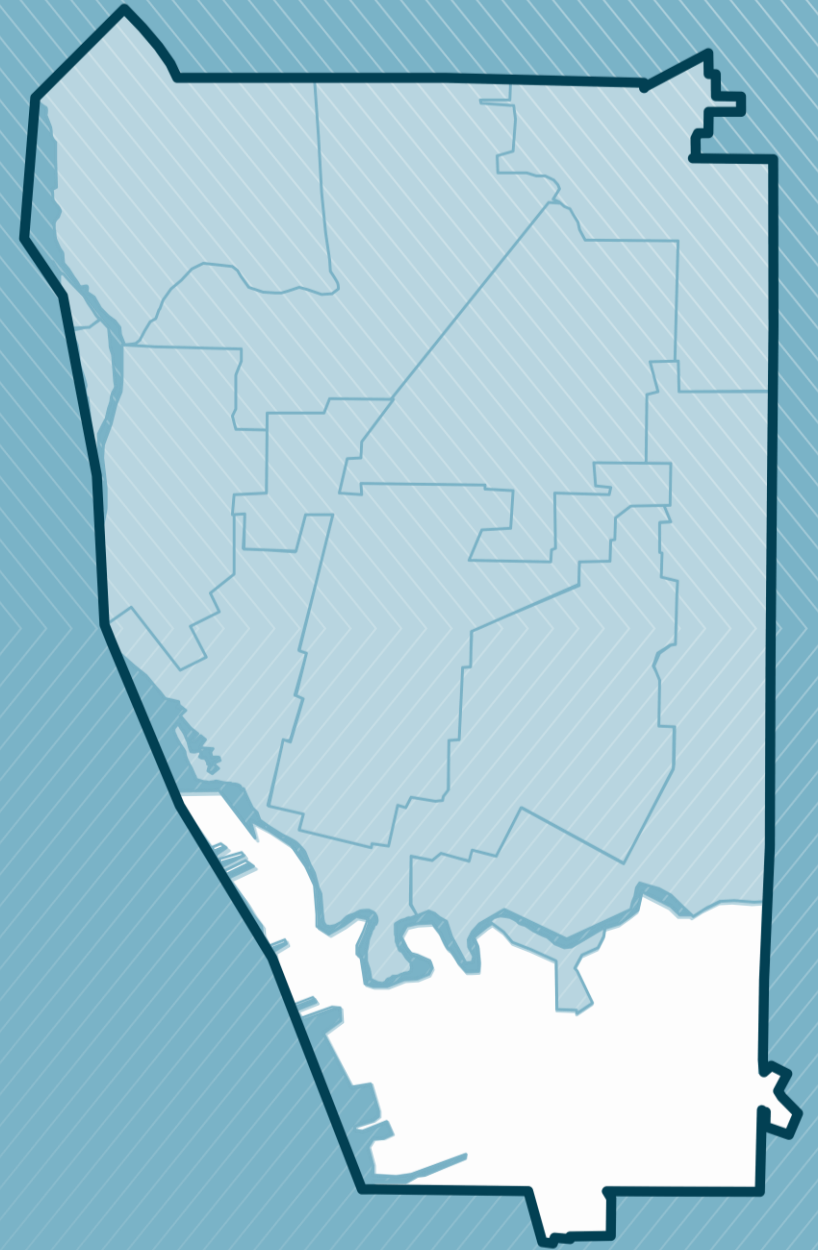
-  Project Locations.
-  Green Infrastructure Projects.
-  Aerial View of Project Location.
-  Major roads within the district.

Scan for more project information!



South District

Specific Projects



Offline Storage (OLS) - Durant Park (Hopkins & Osage)

Construction Timeline:
Upcoming (2034-2039)

Description:

- Below-ground wastewater storage tank in the park at Hopkins and Osage Streets.
- New sewers will be installed on: Osage Street, from Hopkins Street to the new tank in the park, and on Macamley Street, from the tank in the park to South Park Avenue.



Kelly F Pump Station Project is Separate from Queen City Clean Waters Initiative

Construction Timeline:
Spring 2026 - Fall 2028

South Buffalo Pump Station Upgrades Project is Separate from Queen City Clean Waters Initiative

Construction Timeline:
Spring 2026 - Fall 2028

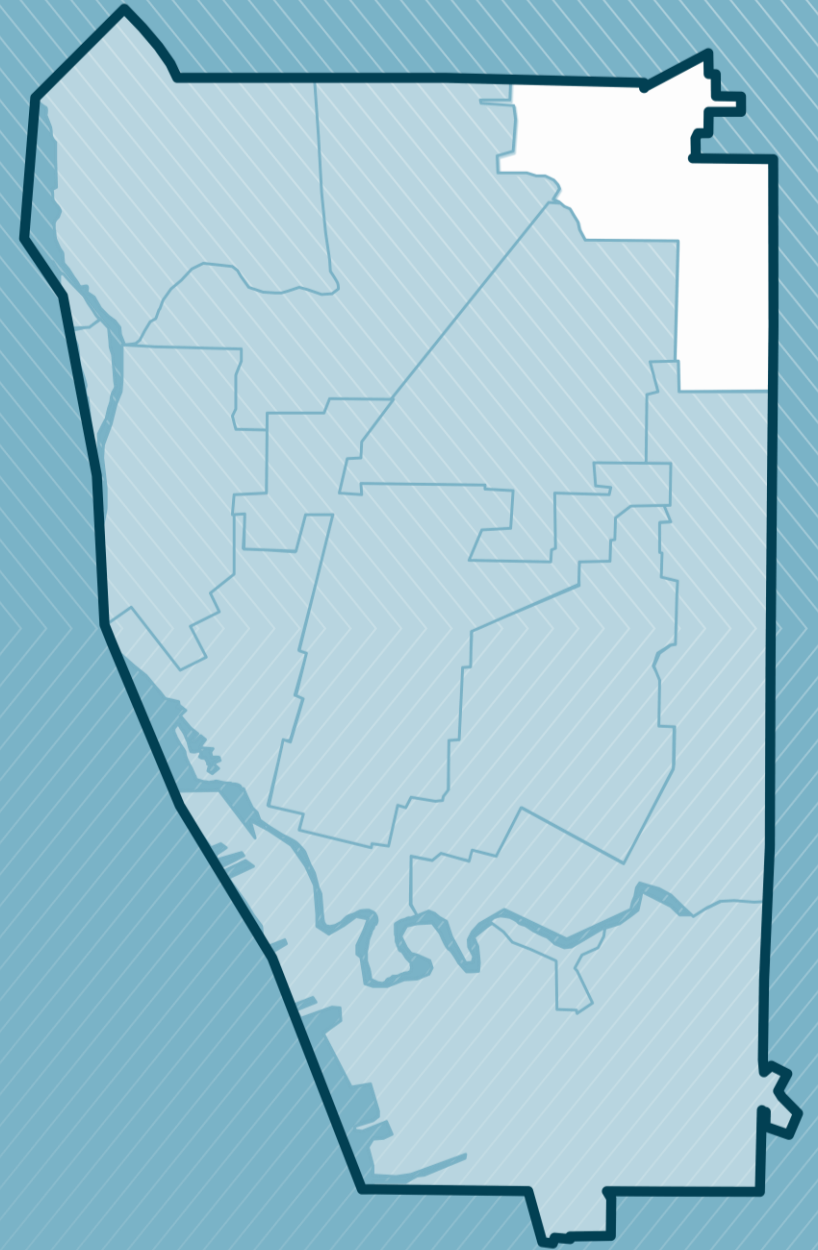
- Project Locations.
- Separate Projects from QCCW
- Green Infrastructure Projects.
- Arial View of Project Location.
- Major roads within the district.

Scan for more project information!



University District

Specific Projects





Bailey & Minnesota Sewer Patrol Point Project

COMPLETED

Construction Timeline: July 2024

Description:

- All work was done within the existing manhole.



Offline Storage OLS) (Edison & Martha)

Construction Timeline:
(Upcoming 2027 - 2029)

Description:

- Below ground wastewater storage tank in Roosevelt Park, behind Charter School of Inquiry. New sewers will be installed on the side of the school and connect on Edison Avenue.



Combined Sanitary & Storm Smart Sewer (Bailey & Amherst)

Construction Timeline: Summer 2024 - Fall 2025

Description:

- Install a gate in the sewer and a control box near the sidewalk at the Bailey and E. Amherst intersection.
- Also, install monitoring sensors at the Amherst Quarry Pump Station.



BSA Green Infrastructure Projects



Project Locations.

Green Infrastructure Projects.

Aerial View of Project Location.

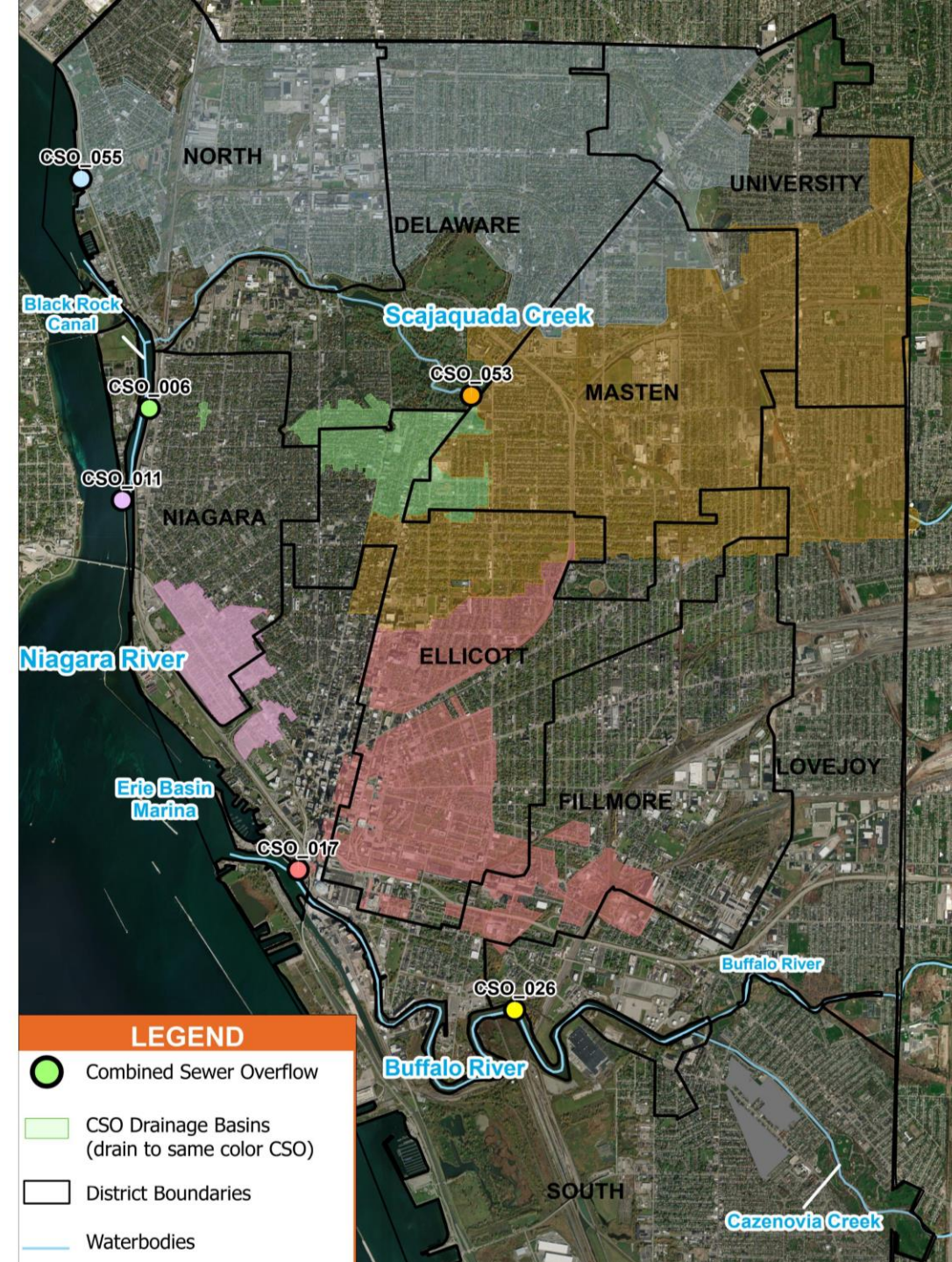
Major roads within the district.

Scan for more project information!



BSA Green Stormwater Infrastructure Program

CITY WIDE GREEN INFRASTRUCTURE



LEGEND

- Combined Sewer Overflow
- CSO Drainage Basins (drain to same color CSO)
- District Boundaries
- Waterbodies

Questions?

Community Engagement & Stakeholder Outreach

Stakeholder Advisory Committee (SAC)

Purpose of the *Queen City Clean Waters* Stakeholder Advisory Committee (SAC):

- serve as a vital bridge between the project team and the diverse communities of Buffalo.
- ensure that community perspectives, concerns, and insights are actively incorporated into the initiative's planning, implementation, and evaluation.


Organizations & Agencies Represented:

- Northland Workforce Training Center
- NAACP
- Buffalo Urban League
- Board of Block Clubs
- Journey's End
- Local Initiatives Support Corporation (LISC)
- Buffalo Niagara Waterkeeper
- City of Buffalo Office of Strategic Planning (OSP)
- Buffalo Center for Health Equity
- Fillmore Forward



► Inclusion of Historically Underrepresented Firms

PURPOSE

- 
- Need to build capacity.
 - Include new partners and create opportunities.
 - Continue relationships with long-standing and traditional businesses.
 - Create economic opportunity for Disadvantaged/Minority/ Women – Owned Business Enterprise (D/MBE/WBE) and Service-Disabled Veteran Owned Business (SDVOB) firms, including firms who are new to working with Buffalo Sewer and/or the City of Buffalo



Meaningful partnerships between **non-profit community organizations** and **consultants and contractors**

- Within Buffalo Sewer's Service Area
- Through contracted Buffalo Sewer infrastructure projects.
- MWBE/DBE requirements are separate from the Community Partnership Program

- Commitments through volunteerism or financial contributions to defined community partners
- Commitments are part of the contract
- Focus areas of Partnership: **(1) Education, (2) Workforce Development, (3) Economic Development, (4) Public & Environmental Health**

COMMUNITY PARTNERSHIP PROGRAM
Coming in 2025

Opportunities to Stay Engaged

Affordability Program for Water/Sewer Bills

- \$60 per year discount for Low Income
- \$90 per year discount for Very Low Income
- Senior Citizens with Enhanced Star Tax Exemption \$106.00 credit to Sewer/Water Bill



**Get help paying your
water and sewer bill!**

<https://buffalo-water.promise-pay.com/>

| Residential Affordable Sewer Program Annual Income Limits | | |
|--|------------------------|-------------------|
| <u>Family Size</u> | <u>Very Low Income</u> | <u>Low Income</u> |
| 1 | \$33,950 | \$54,250 |
| 2 | \$38,800 | \$62,000 |
| 3 | \$43,650 | \$69,750 |
| 4 | \$48,450 | \$77,500 |
| 5 | \$52,350 | \$83,700 |
| 6 | \$56,250 | \$89,900 |
| 7 | \$60,100 | \$96,100 |
| 8 | \$64,000 | \$102,300 |
| Income Limits based on Housing Urban Development (HUD) Income Limits. | | |

You're Invited! Queen City Clean Waters Fair:

Friday, August 29, 2025



4:00 PM – 7:00 PM



Hoyt Lake, Delaware Park



Free and open to the public!

QUEEN CITY CLEAN WATERS FAIR

FRIDAY, AUG 29th | 4:00 - 7:00 PM | HOYT LAKE IN DELAWARE PARK

EVENT DETAILS

Join us on August 29, 2025 for our Water and Environment Fair at Hoyt Lake in Delaware Park...free entry and open to the public!

Enjoy a fun-filled evening featuring games, bookbag and book giveaways, environmental activities and watershed demonstrations, and virtual tours of Buffalo Sewer Queen City Clean Waters projects happening in your neighborhood.

FOOD + MUSIC

EDUCATIONAL WATER ACTIVITIES

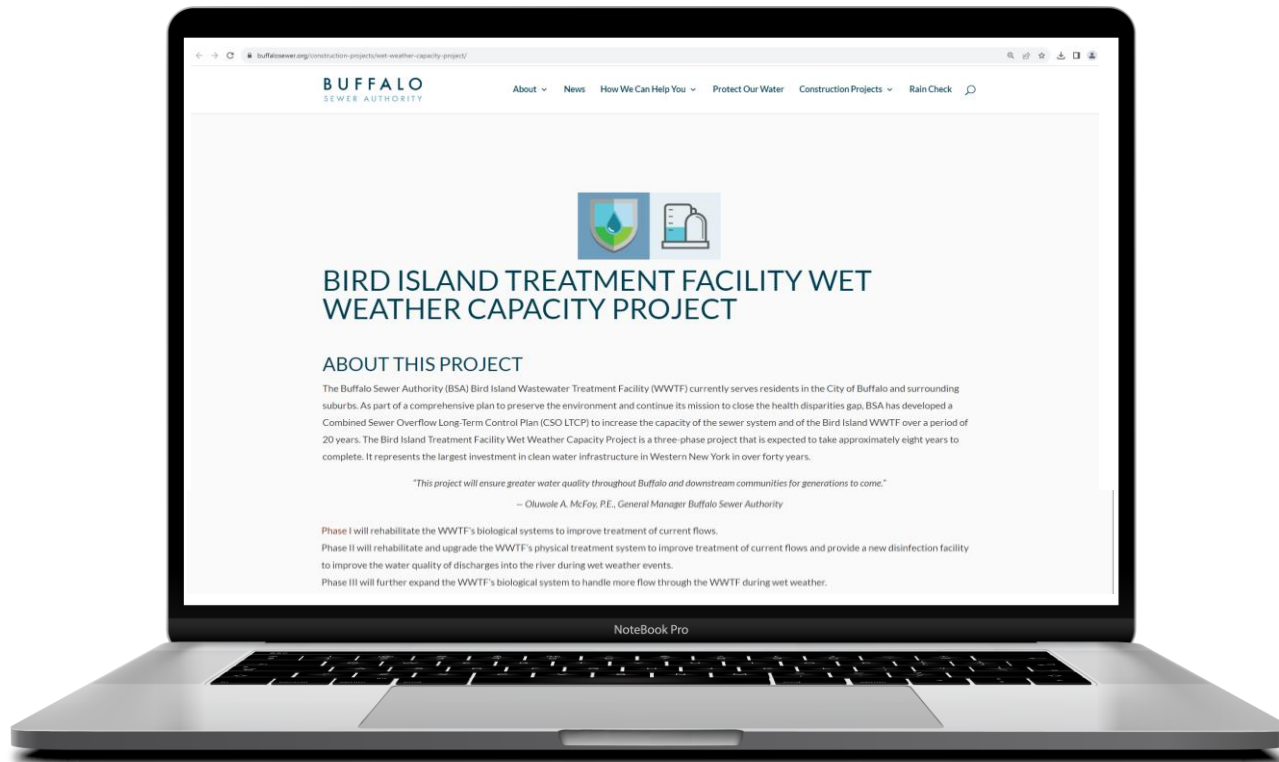
GAMES + PRIZES



QueenCityCleanWaters@buffalosewer.org



Buffalo Sewer Authority Website



buffalosewer.org

Your BEST source of information!

- ✓ Consultant, Contractor, and Supplier Opportunities
- ✓ Construction Updates
- ✓ FAQs
- ✓ Board Meeting Minutes
- ✓ Public Participation Plans

New! Queen City Clean Waters Interactive Website

BUFFALOQCCW.ORG



[Home](#)

[Buffalo Sewer Home Page](#)

[English](#) ▼

[Log In / Join](#)

[Search](#)



QUEEN CITY CLEAN WATERS INITIATIVE



Demonstration of the Interactive QCCW Website

Thank you!

GET IN TOUCH:



@BuffaloSewer



BuffaloSewer.org



@BuffaloSewer



BuffaloSewerAuthority

BSA's Proposed Project Schedules (GI Projects not included)

| Project Name and Tag | Start - Completion |
|--|--------------------|
| WWTF NFA Phase I | 9/27/22 - 5/25/30 |
| WWTF NFA Phase II | 7/23/26 - 12/26/31 |
| WWTF NFA Phase III | 1/13/28 - 9/3/31 |
| CSO053_11, 1.5 MG Canisius/Jefferson Delavan OLS | 9/7/28 - 4/9/32 |
| CSO053_3.2 Bailey & Amherst, Amherst Quarry PS RTC | 5/28/25 - 7/6/28 |
| CSO010_1 Breckenridge Niagara RTC | 8/26/25 - 1/31/29 |
| CSO006_2 Gates Circle RTC | 4/8/25 - 5/17/28 |
| CSO053_10 SPP229A RTC | 10/22/24 - 7/19/26 |
| CSO053_3.3 Bailey & Minnesota SPP254 Modification | 10/22/24 - 7/19/26 |
| CSO053_2.5 SPP337 Modification | 4/24/26 - 11/20/27 |
| CSO053_3.1 SPP338 Modification | 4/23/27 - 6/1/30 |
| CSO053_8 SPP341A Modification | 4/24/26 - 11/20/27 |
| CSO053_1.5 SPP336B Modification | 4/24/26 - 11/20/27 |
| CSO053_1.4, 3.26 MG Sidney OLS | 6/18/27 - 5/29/32 |
| CSO053_13 SPP165B Modification | 4/24/26 - 11/20/27 |
| CSO053_14 SPP175 Modification | 4/24/26 - 11/20/27 |
| CSO053_5.2 Edison Martha OLS | 6/18/27 - 4/30/33 |
| CSO014_1.1 SPP206A&B RTC | 2/25/28 - 2/9/30 |
| System_2 Schiller Park OLS | 6/16/28 - 5/28/33 |
| System_2_3 SPP339 Modification | 4/23/27 - 11/18/28 |
| System_2_4 Schiller Park OLS SPP340 Modification | 4/23/27 - 4/7/29 |
| CSO013_1 SPP304 Modification | 4/22/28 - 11/18/29 |
| CSO012_1.2 SPP023 Modification | 4/22/28 - 11/18/29 |
| CSO012_2.1 SPP296 Modification | 4/22/28 - 11/18/29 |
| CSO017_8 SPP326 Modification | 4/22/28 - 11/18/29 |
| CSO014_1.2 5.55 MG Erie Basin Marina OLS | 3/24/29 - 3/5/34 |
| CSO011_1.2 SPP024 Modification | 4/22/28 - 11/18/29 |
| CSO026_1.3 Collins Park OLS | 6/18/30 - 5/30/35 |
| CSO027_1 SPP 317 Modification | 4/24/29 - 11/20/30 |
| CSO027_2 Babcock PS Weir Modification | 4/24/29 - 4/9/31 |
| CSO055_1.5 11.55 MG Military Rd OLS | 12/12/30 - 1/2/37 |
| System_1 Northern Relief Tunnel | 6/23/33 - 6/1/40 |
| CSO017_9 SPP059 Modification | 4/25/31 - 11/20/32 |
| CSO027_3 SPP097 Modification | 4/25/31 - 11/20/32 |
| CSO033_2 Clinton St OLS | 2/27/32 - 3/8/36 |
| CSO033_3 SPP104 Modification | 4/25/31 - 11/20/32 |
| CSO017_10 SPP051 Modification | 4/25/31 - 11/20/32 |
| CSO006_3 Delavan Drain Weir Raising & RTC | 2/25/33 - 4/5/36 |
| CSO064_1.1 CSO-064 ILS | 3/25/33 - 3/10/35 |
| CSO064_1.2 SPP 137, Modification | 4/23/32 - 11/19/33 |
| CSO028_1, 0.95 MG Hopkins & Osage OLS | 3/24/34 - 3/5/39 |
| CSO017_6 Bass Alley OLS | 3/24/34 - 3/5/39 |
| CSO033_1 Bailey & Regent OLS (Moreland Park) | 3/24/35 - 3/4/40 |
| CSO064_2 Perry Street Sanitary Sewer | 3/26/36 - 6/3/38 |
| CSO017_1.1 SPP054 Sewer Separation | 3/26/36 - 6/3/38 |
| CSO055_1.1 Hertel North East ILS | 4/23/37 - 6/1/40 |

WATER BODY IMPACTED LEGEND



How does this project impact the City of Buffalo?

This project will reduce overflows from the City's sewers by helping flow reach the Bird Island Wastewater Treatment Facility during wet weather, instead of entering Buffalo's creeks and river.

The implementation of this project, which includes 50+ sites in total, will cost approximately \$1B over the next 15 years including \$250M in treatment facility upgrades.



Why is this work being done?

Hundreds of millions of gallons of storm water mixed with sanitary sewage overflows to the waterways of Western New York during rainfall and snow melt periods each year.

Queen City Clean Waters will reduce these events.



We want to hear from you!

Scan the QR code to share your feedback.



CONTACT US

Buffalo Sewer Authority
1038 City Hall
65 Niagara Square
Buffalo, NY 14202

buffalosewer.org
716-851-4664



BUFFALO

SEWER AUTHORITY



QUEEN CITY CLEAN WATERS

- Bird Island Treatment Facility Upgrades
- Combined Sewer Overflow (CSO) Storage
- Green Infrastructure (GI)
- Real-Time Control Smart Sewers
- Sewer Improvements & Modifications



