

Opening Remarks



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

A Brief History of Buffalo's Sewers

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



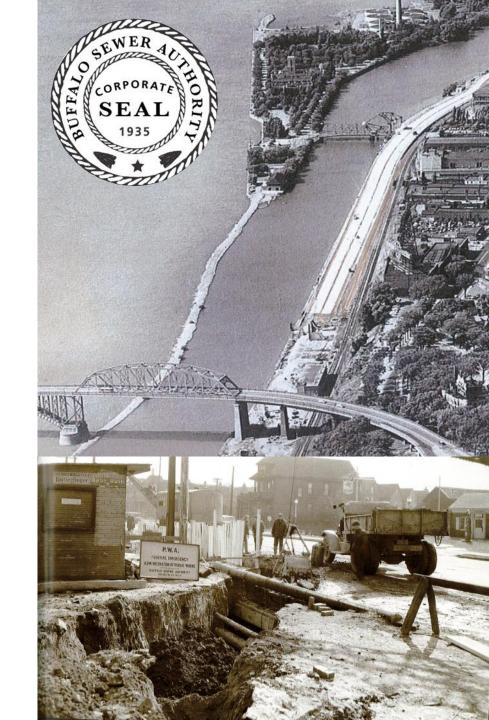




Buffalo Sewer Authority's Founding

- 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

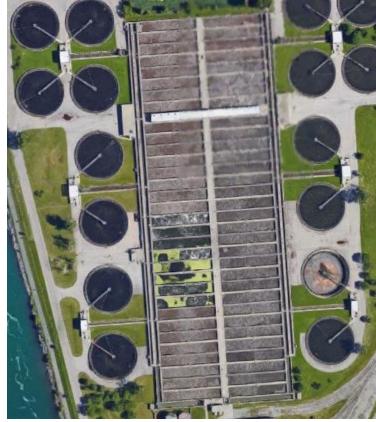
- Old Erie Canal bed
- On top of:
 - Swan Trunk
 - Interceptors
 - Hamburg Drain

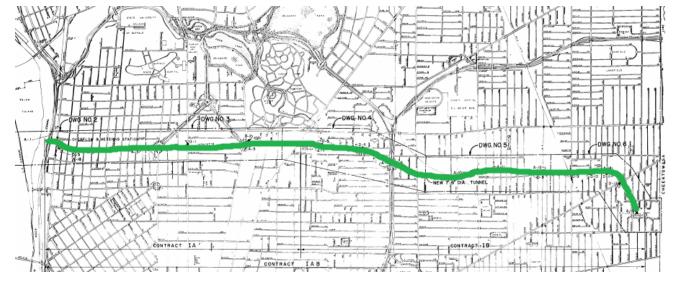


Clean Water Act (1972)

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





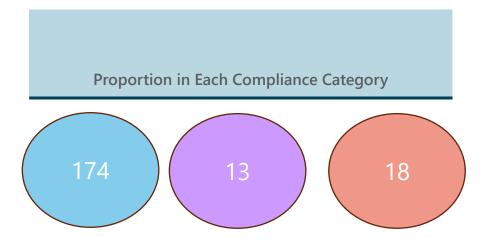




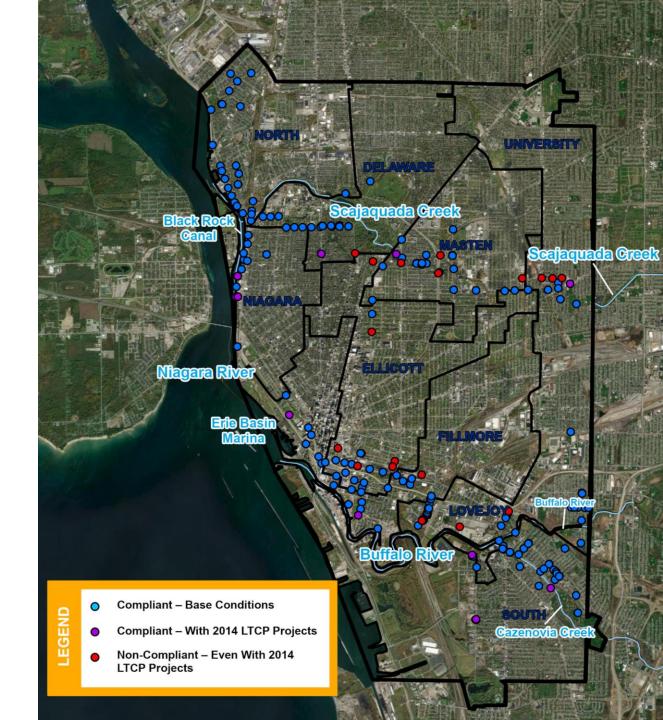


Submitted Initial Negotiation of Submitted Final LTCP Report **Queen City Clean USEPA CSO** NYSDEC/USEPA Revised collection LTCP to New York Submitted to **Control Policy** Consent Decree LTCP Update to system model is Waters Request Issued (Required State Department Additional USEPA/ NYSDEC USEPA/NYSDEC Begins approved (51 proposed Development of of Environmental **Evaluations** (as directed by projects) LTCP) regulatory agency submitted to Conservation NYSDEC (NYSDEC)

Sewer Patrol Points (SPP) Compliance



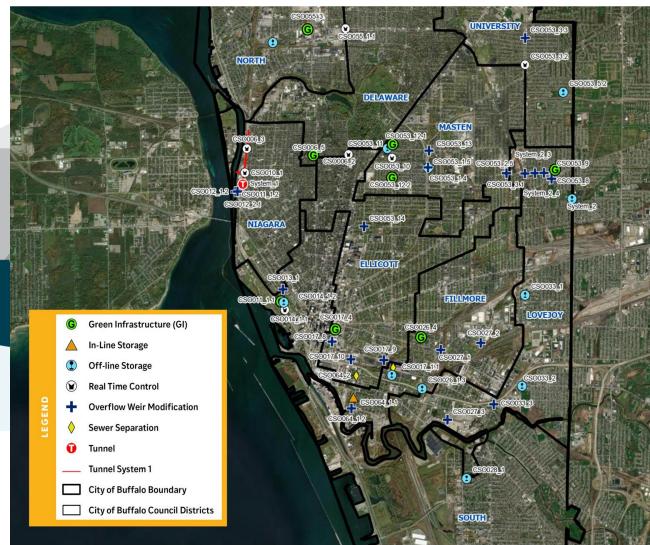




Queen City Clean Waters

PROGRAM OVERVIEW







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.





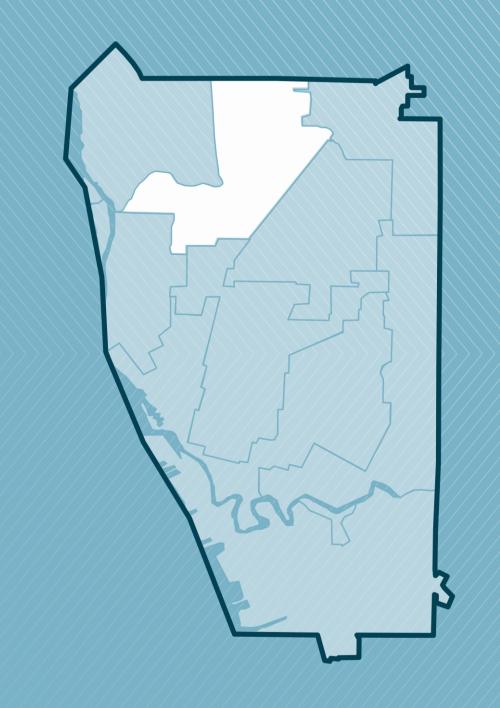




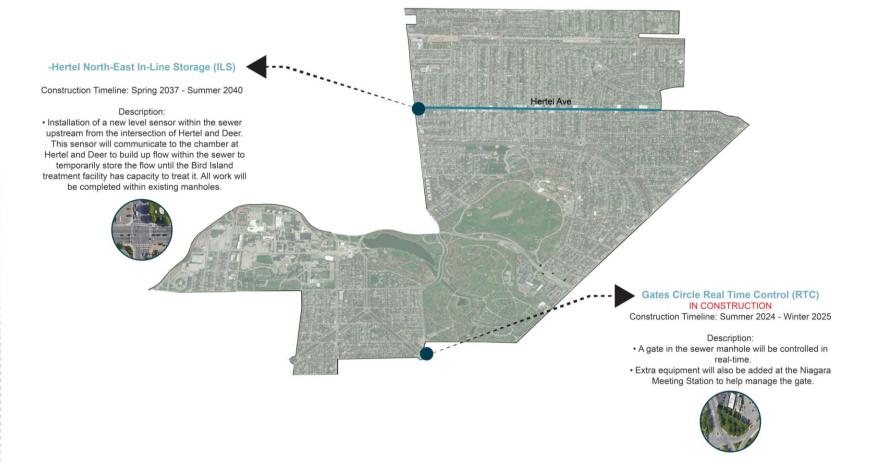
Potential Construction Impacts and Mitigation Measures

- 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









Project Locations.



Green Infrastructure Projects.



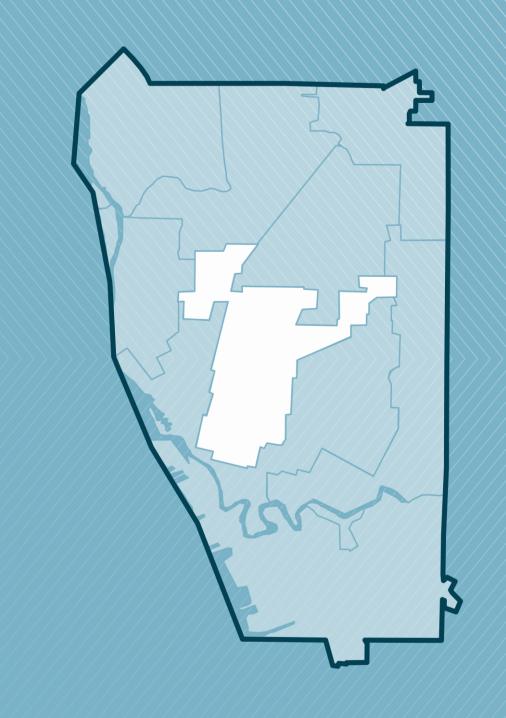
Arial View of Project Location.

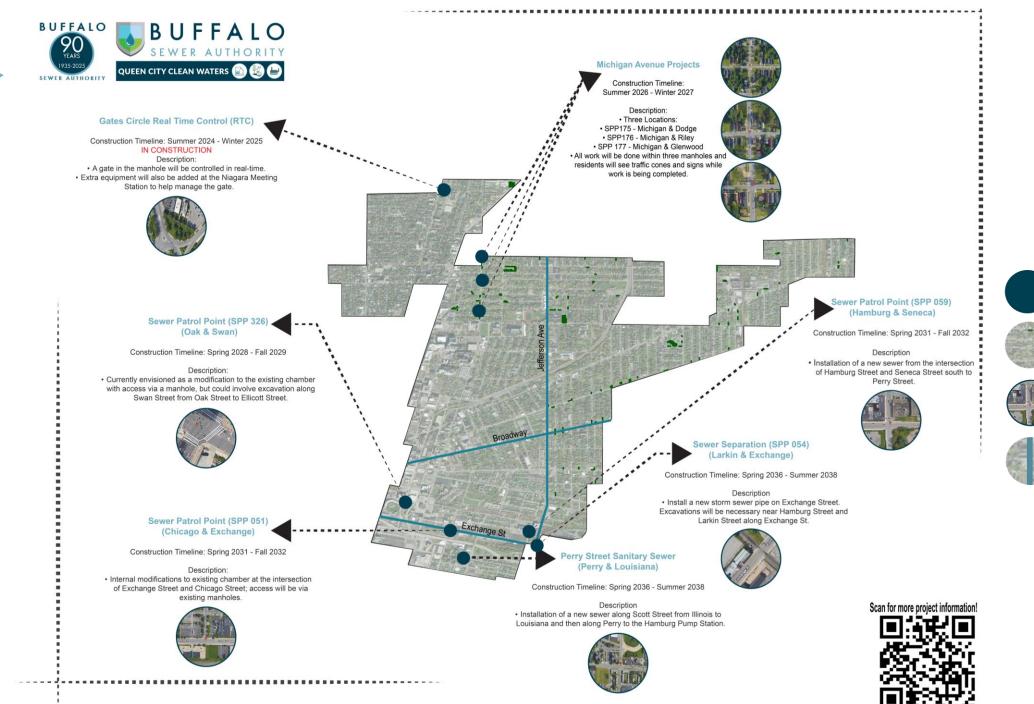






Ellicott District



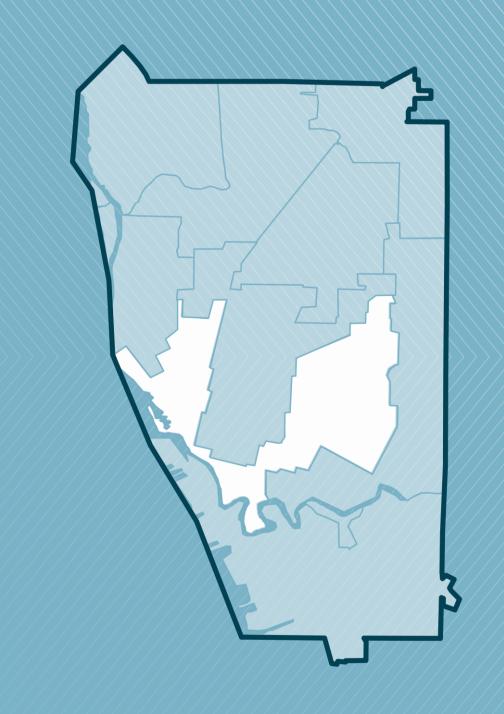


Project Locations.

Green Infrastructure Projects.

Arial View of Project Location.

Fillmore District







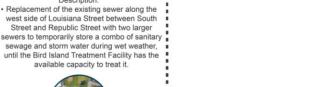
In-Line Storage (ILS) (Louisiana & Mackinaw)





Description:

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 Separation (SPP 054)

(Larkin & Exchange)

Construction Timeline: Spring 2036 -

Summer 2038

Description:

· Disconneciton 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.

· 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 covey flow to the Bird Island Treatment Facility once the facility has capacity.

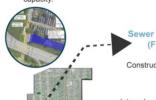
Clinton Park Offline Storage

(Smith & Clifford)

Construction Timeline: Summer 2030 - Spring

2035

Description:



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

Construction Timeline: Spring 2029 - Spring

· Internal modifications to an existing sewer chamber near Babcock Pump Station. Access



Major roads within the district.

Green Infrastructure Projects.

Arial View of Project Location.

Project Locations.

(Babcock & Howard)

Description:

for work will be through an existing manhole.



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

Construction Timeline: Spring 2034 - Spring

Description:

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 Scan for more project inf capacity to treat the stored flow. A pumping station will Island Treatment Facility once the facility has capacity.



· Installation of a new 3.66 million gallon underground also be located at this site to convey flow to the Bird



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



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

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 wil 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

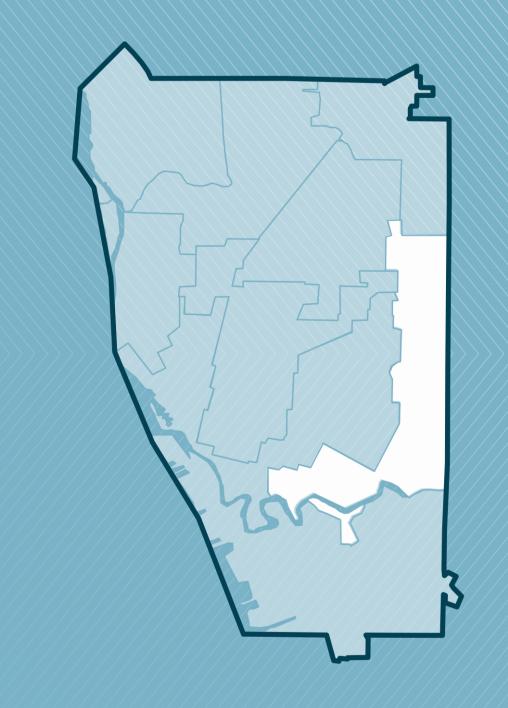
Description:

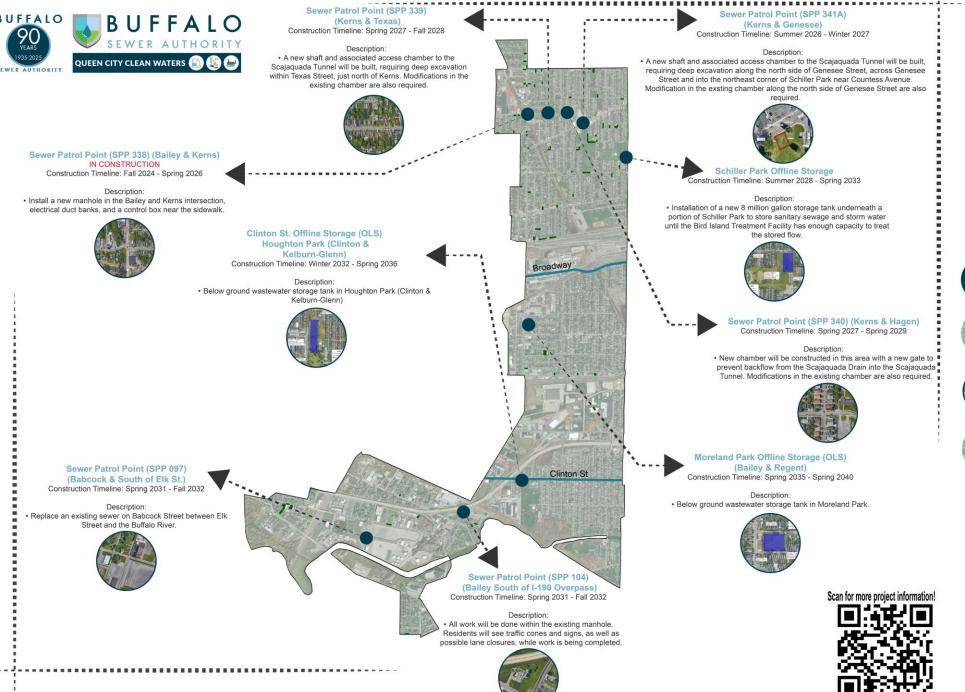
· Installation of a new chamber and gate within the chamber, to redirect sanitary sewage and storm water between two large sewer pipes to whichever pipe has capacity at a particular time.





Lovejoy District







Project Locations.



Green Infrastructure Projects.

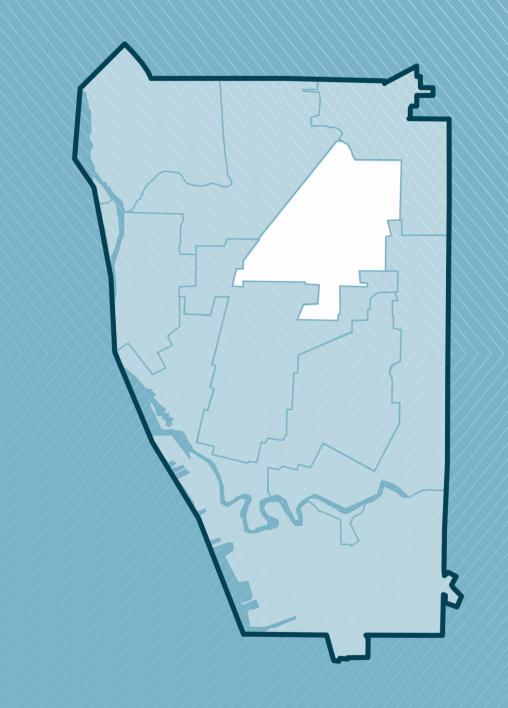


Arial View of Project Location.





Masten District







Construction Timeline: (Upcoming 2028 - 2032)

Description:

· Below-ground wastewater storage tank,

under the parking lot at Jefferson Avenue

and East Delavan Avenue

Offline Storage (OLS)

(Jefferson & E Delavan)

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, waterline 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.



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

Construction Timeline: (Upcoming 2028 - 2032)

Description:

Concept being developed; either 1.) Install a new sewer, chamber, and drop shaft connection to the Scajaquada Tunnel, OR

2.) Install a new below-ground wastewater storage tank.





East Delavan

E Ferry



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.





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 & Scajaguada)

Construction Timeline: Spring 2027 - Winter 2028

Description:

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



Green Infrastructure Projects.

Project Locations.

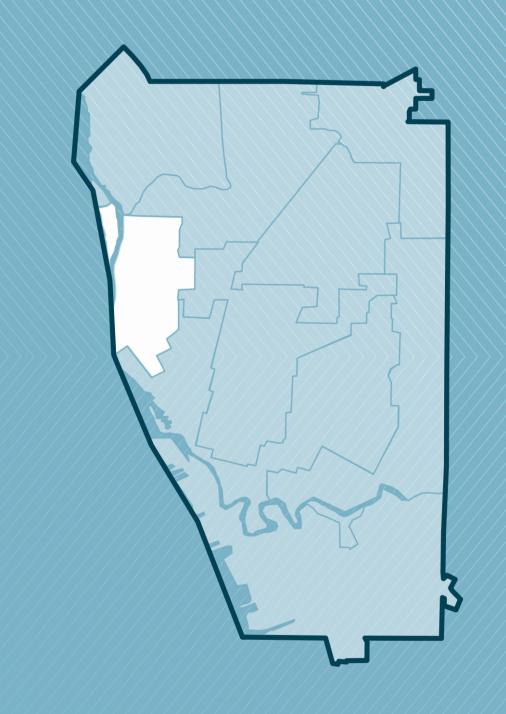


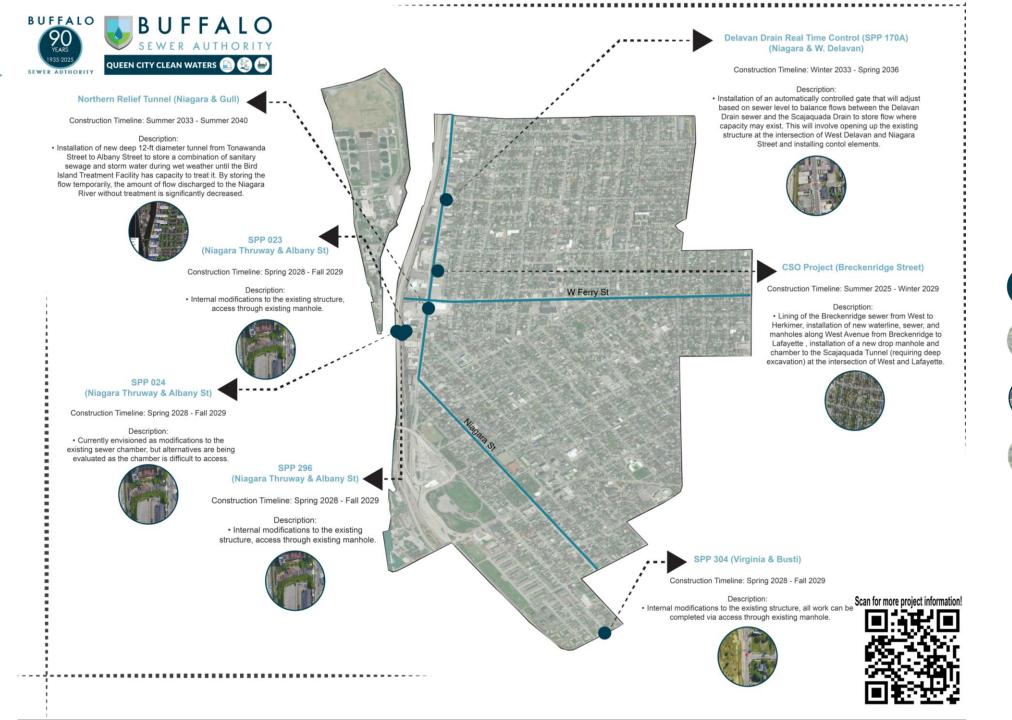
Arial View of Project Location.





Niagara District



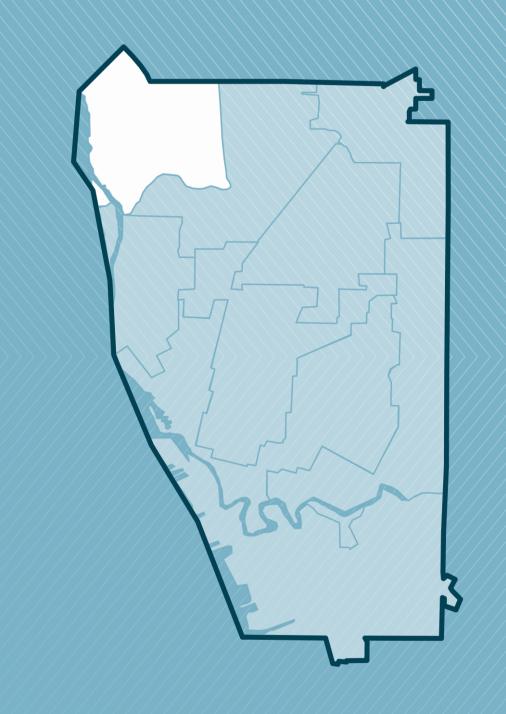


Project Locations.

Green Infrastructure Projects.

Arial View of Project Location.

North District







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.



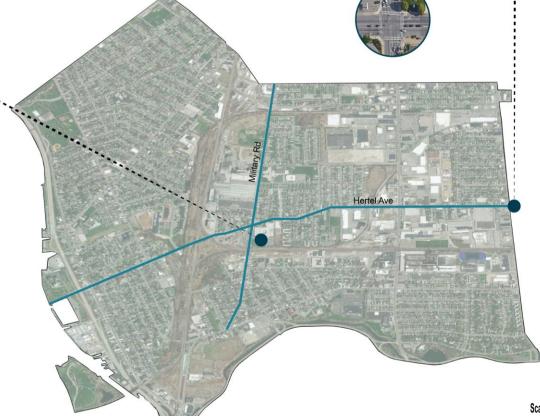
Military Road Offline Storage OLS (Military & Hertel)

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.

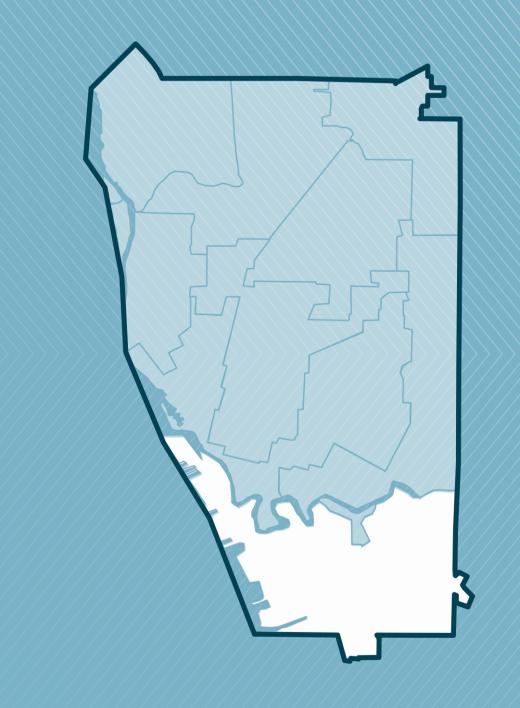


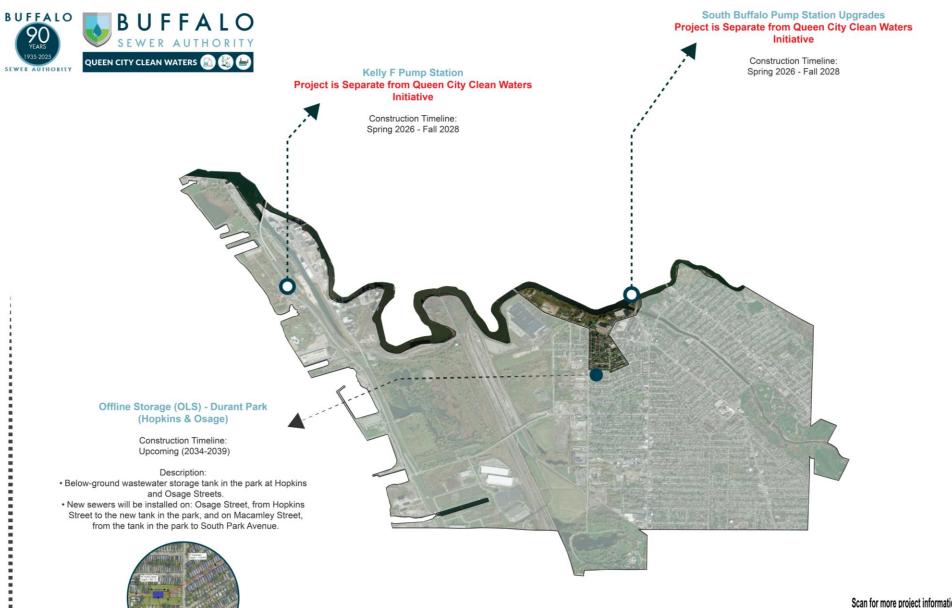
Arial View of Project Location.





South District







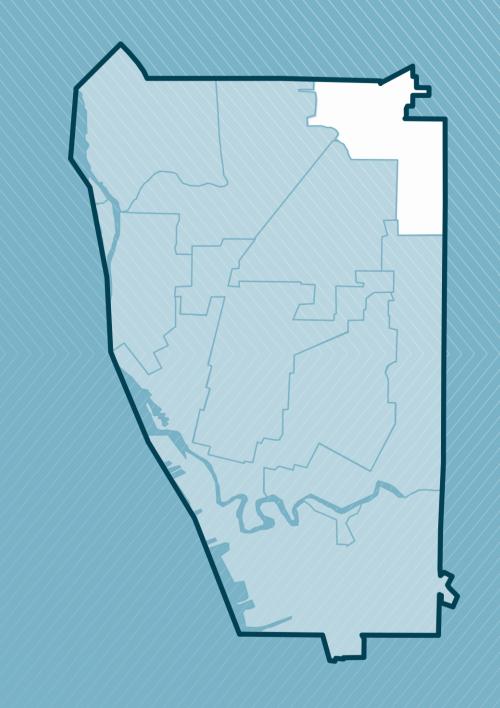
Project Locations.

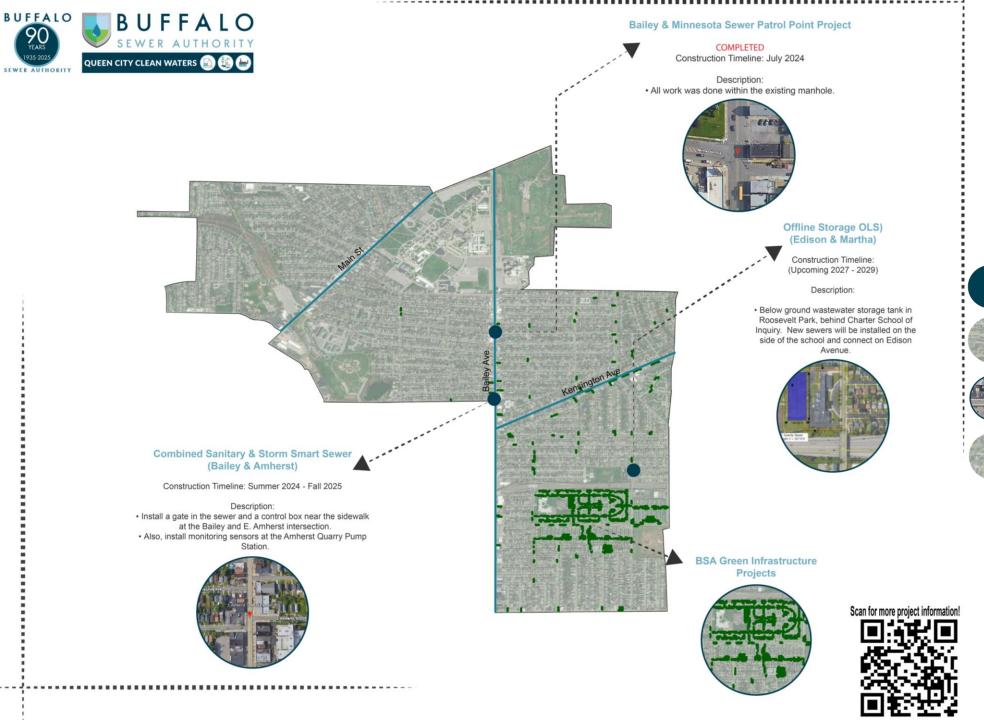
Separate Projects from QCCW

Green Infrastructure Projects.

Arial View of Project Location.

University District





Project Locations.

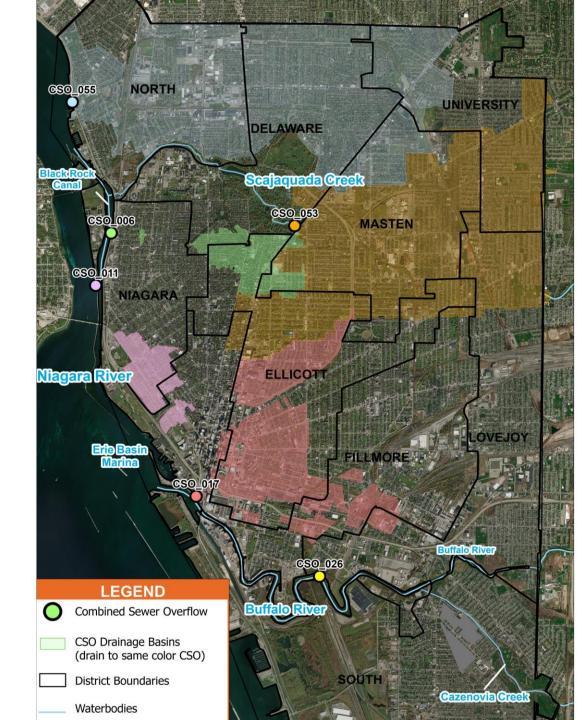
Green Infrastructure Projects.

Arial View of Project Location.

BSA Green Stormwater Infrastructure Program

CITY WIDE GREEN INFRASTRUCTURE





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 <u>separate</u> 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

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
3 \$43,650 \$69,750 4 \$48,450 \$77,500
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
- P Hoyt Lake, Delaware Park
- Free and open to the public!

QUEEN CITY

CLEAN MATERS 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







Buffalo Sewer Authority Website



buffalosewer.org

BUFFALO SEWER AUTHORITY

Your <u>BEST</u> 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



Log In / Join

Q Search



Demonstration of the Interactive QCCW Website

Thank you!

GET IN TOUCH:







