
QuickDrops™
The Maritime Aquarium AT NORWALK
LONG ISLAND SOUND FUNDERS COLLABORATIVE
HARBOR WATCH at Earthplace
UCONN
The COMMONS
Save the Sound®
Action for our region's environment.
NATIONAL FISH AND WILDLIFE FOUNDATION NFWF
The New York Community Trust
LONG ISLAND REGIONAL PLANNING COUNCIL
Leadership on Regional Issues
THE JENIAM FOUNDATION

Discussion Overview

- Save the Sound
- QuickDrops
- Next Steps

Southport Beach, CT

Our Mission

The mission of Save the Sound is to protect, improve, and understand the land, air, and water of the Long Island Sound region. We use legal and scientific expertise and bring people together to achieve results that benefit our environment for current and future generations.

QuickDrops

Project Goal

User-friendly data storage, visualization, and retrieval system for Long Island Sound community-generated data

Primary Objectives

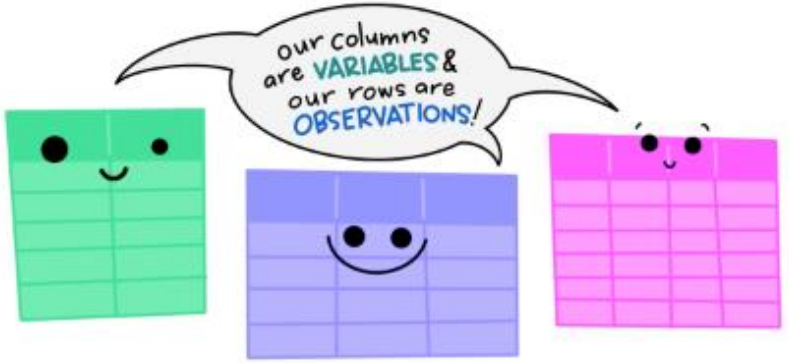
“Quick” and tidy data uploads and downloads

Water Quality Exchange interface

Data sharing, analyses, & visualization

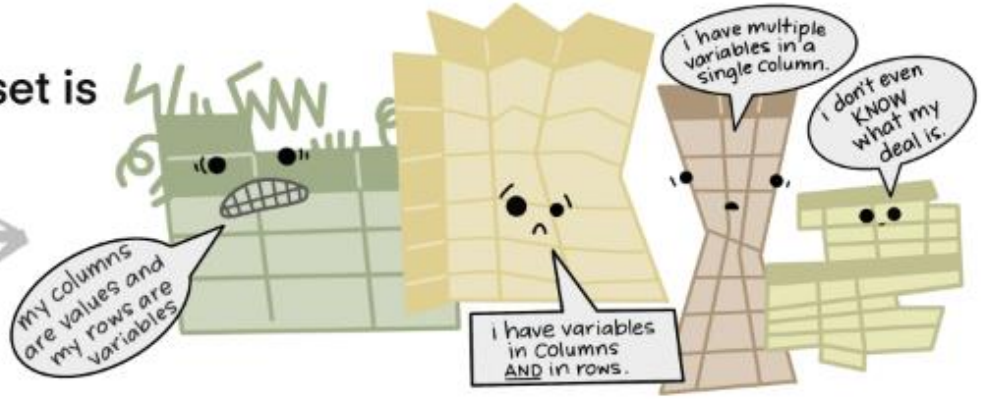
Data formatting

The standard structure of tidy data means that "tidy datasets are all alike..."



"...but every messy dataset is messy in its own way."

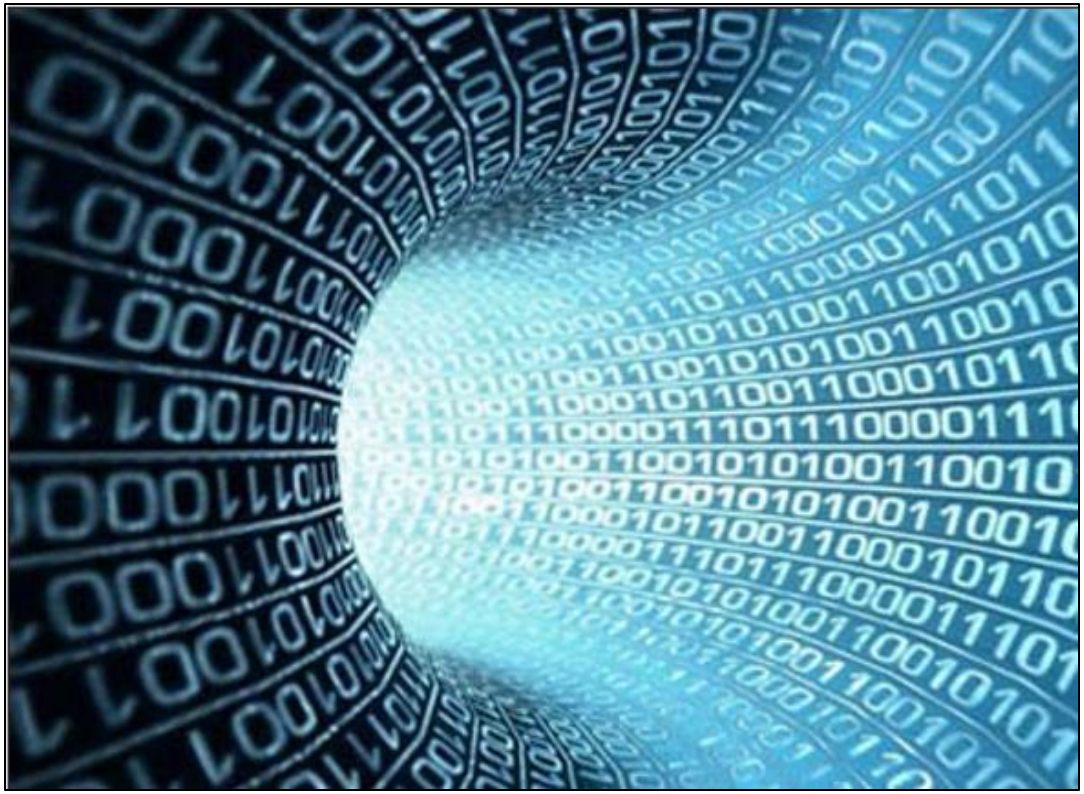
–HADLEY WICKHAM

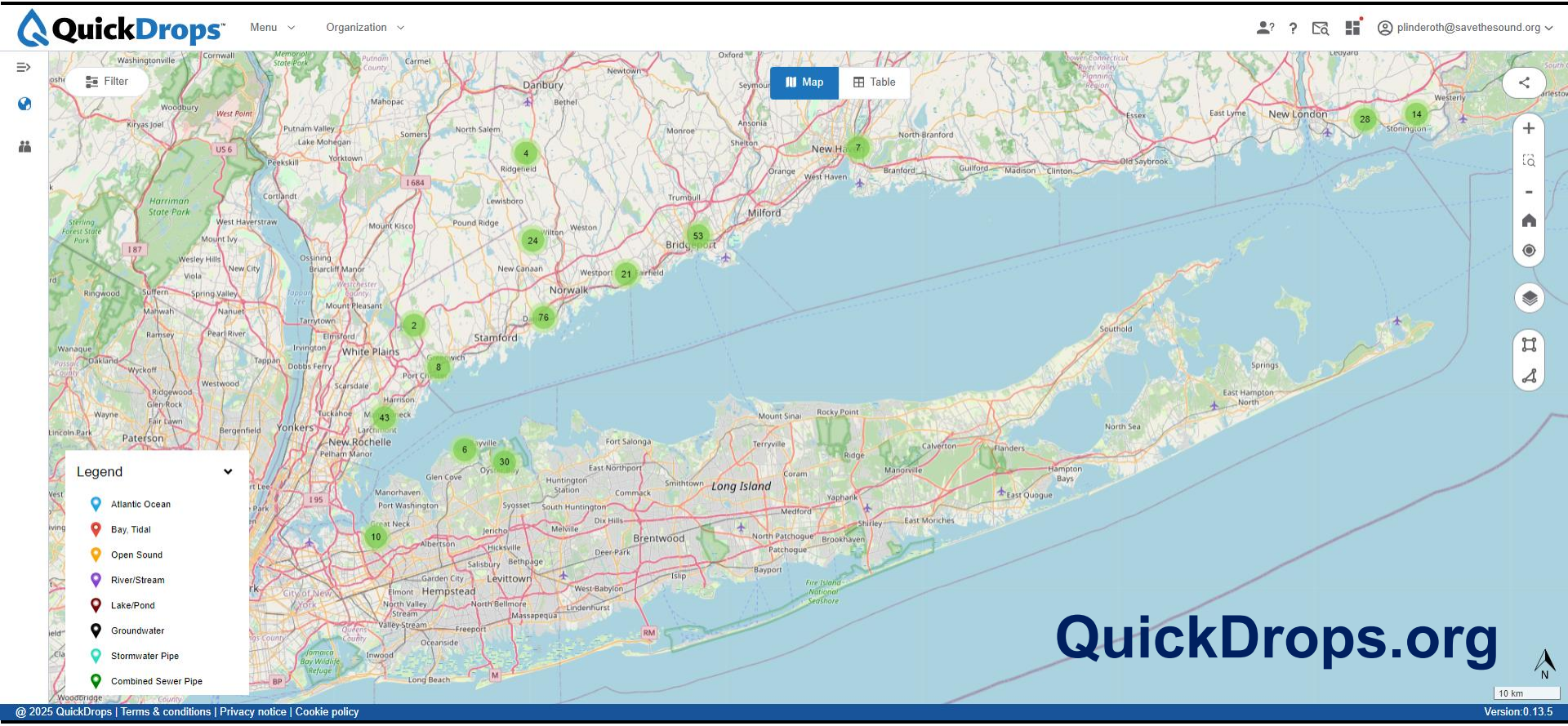


Water Quality Exchange Upload

Requirement for federal funding

Complex system not for all skill levels of users




QuickDrops
Menu
Organization
plinderoth@savethesound.org
Filter
Map
Table
Legend
Atlantic Ocean
Bay, Tidal
Open Sound
River/Stream
Lake/Pond
Groundwater
Stormwater Pipe
Combined Sewer Pipe
QuickDrops.org
N
10 km
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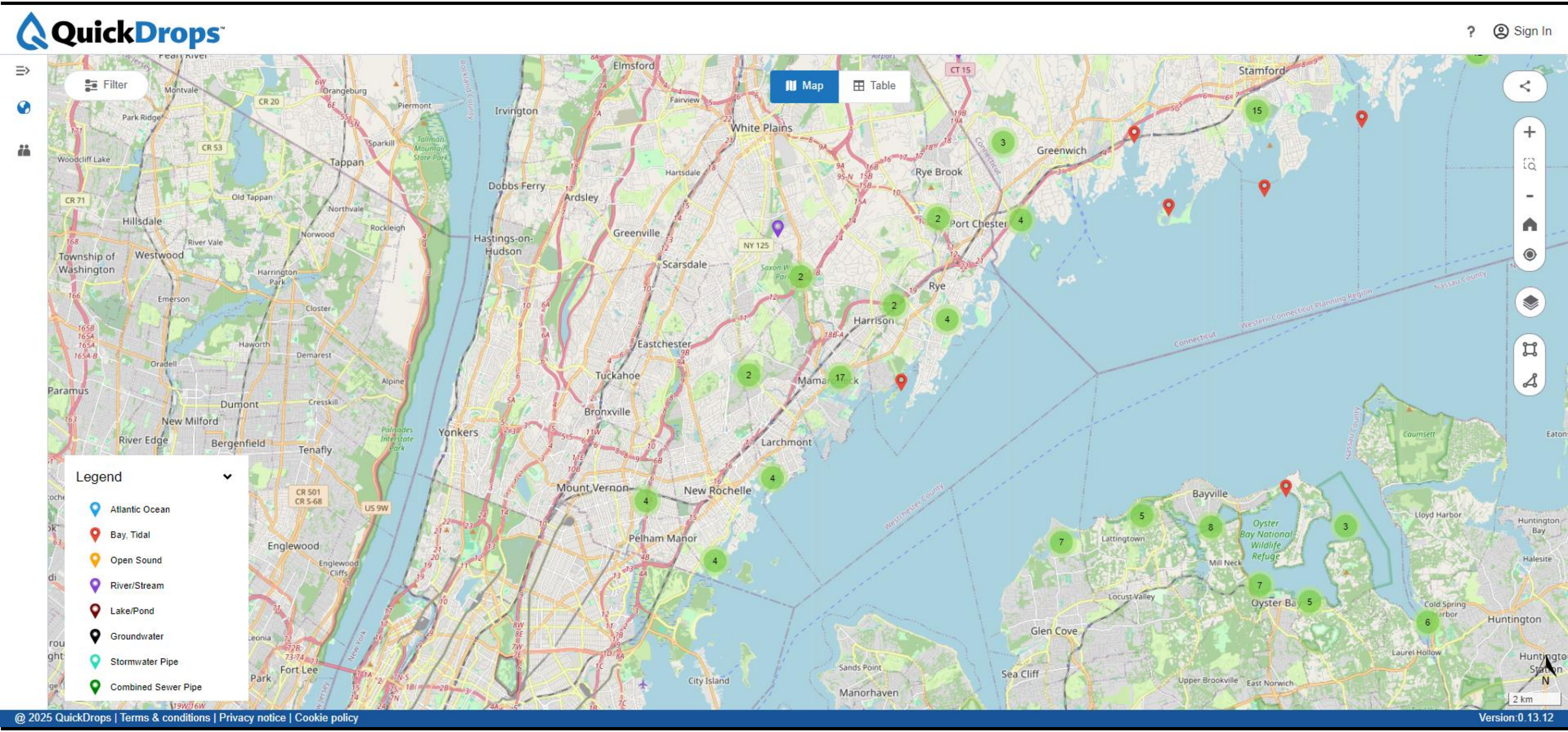
Version:0.13.5


QuickDrops™
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Sign In
Filter
Map
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Legend
Atlantic Ocean
Bay, Tidal
Open Sound
River/Stream
Lake/Pond
Groundwater
Stormwater Pipe
Combined Sewer Pipe
2 km
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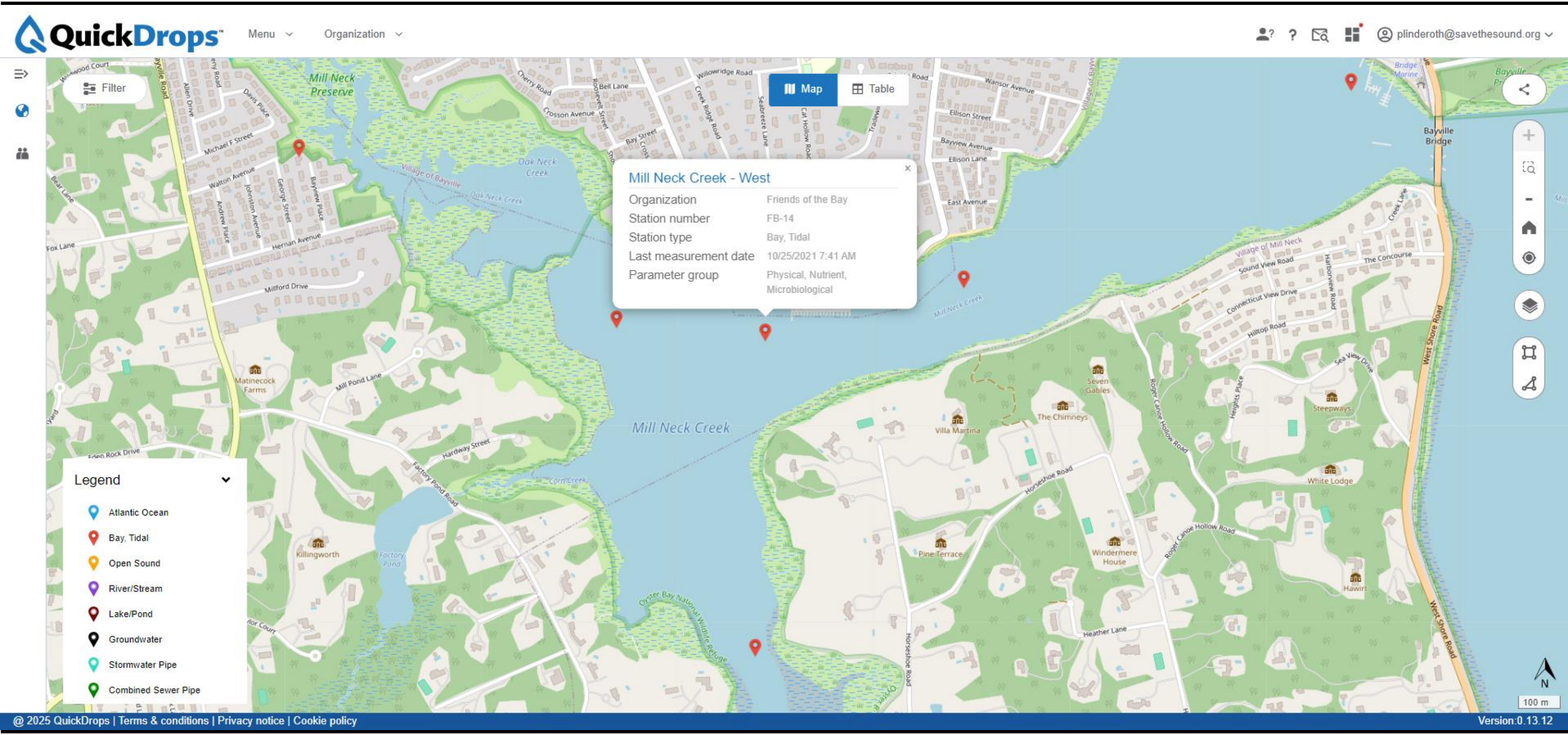
QuickDrops
Menu
Organization
plinderoth@savethesound.org
Filter
Map
Table
Mill Neck Creek - West
Organization
Friends of the Bay
Station number
FB-14
Station type
Bay, Tidal
Last measurement date
10/25/2021 7:41 AM
Parameter group
Physical, Nutrient, Microbiological
Mill Neck Preserve
Mill Neck Creek
Oak Neck Creek
Village of Bayville
Village of Mill Neck
Bayville Bridge
Matinecock Farms
Killingworth
Factory Pond
Villa Martina
The Chimneys
Seven Gables
Steepways
White Lodge
Pine Terrace
Windermere House
Hawirt
Oyster Bay National Wildlife Refuge
West Shore Road
Horseshoe Road
Legend
Atlantic Ocean
Bay, Tidal
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Groundwater
Stormwater Pipe
Combined Sewer Pipe
100 m
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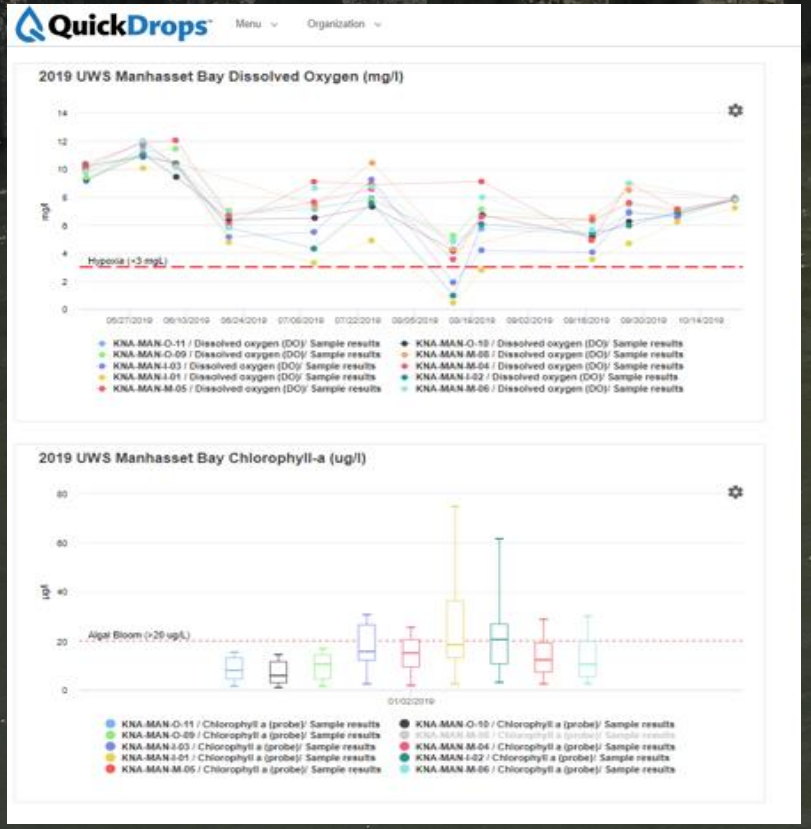
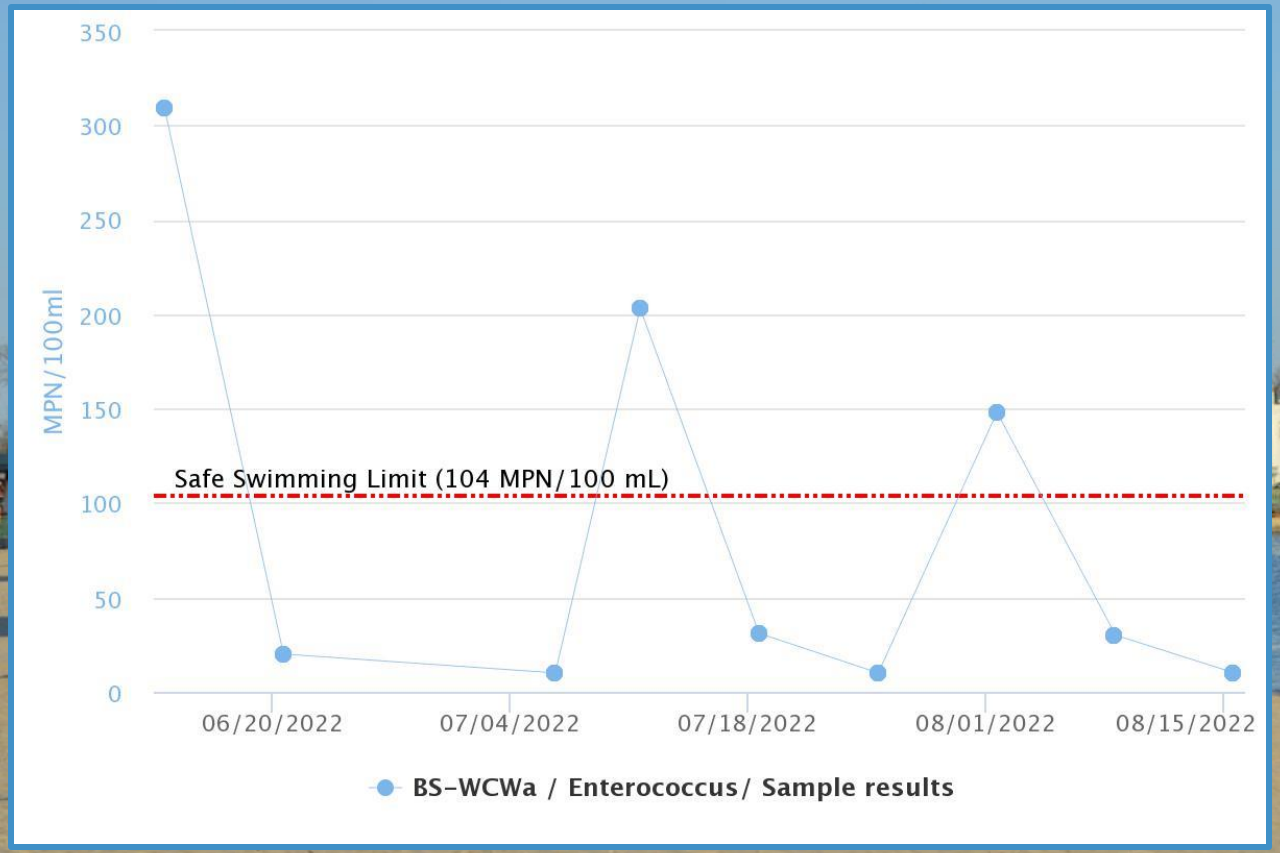
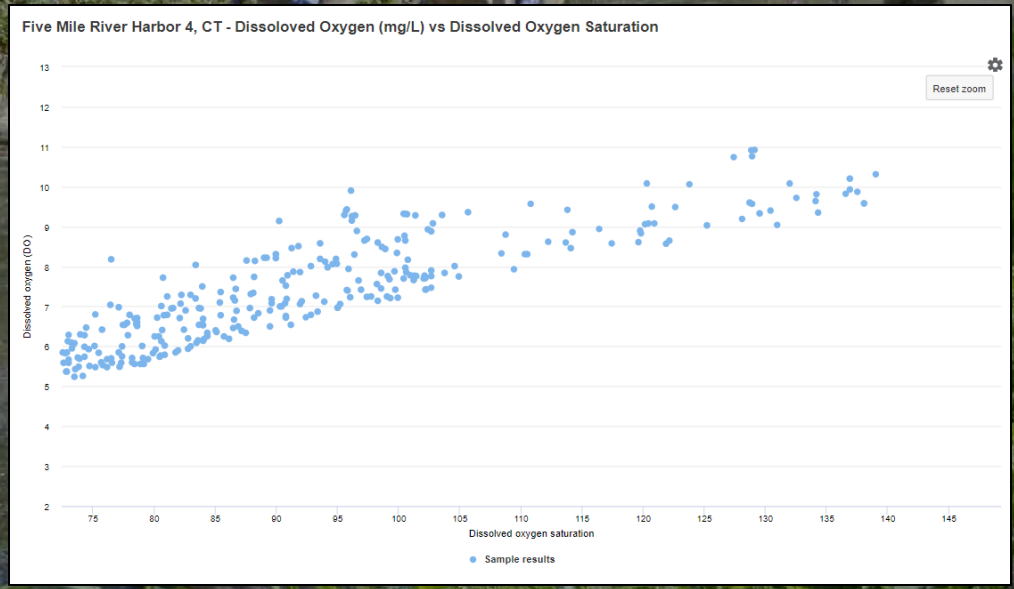
Data to Water Resource Management



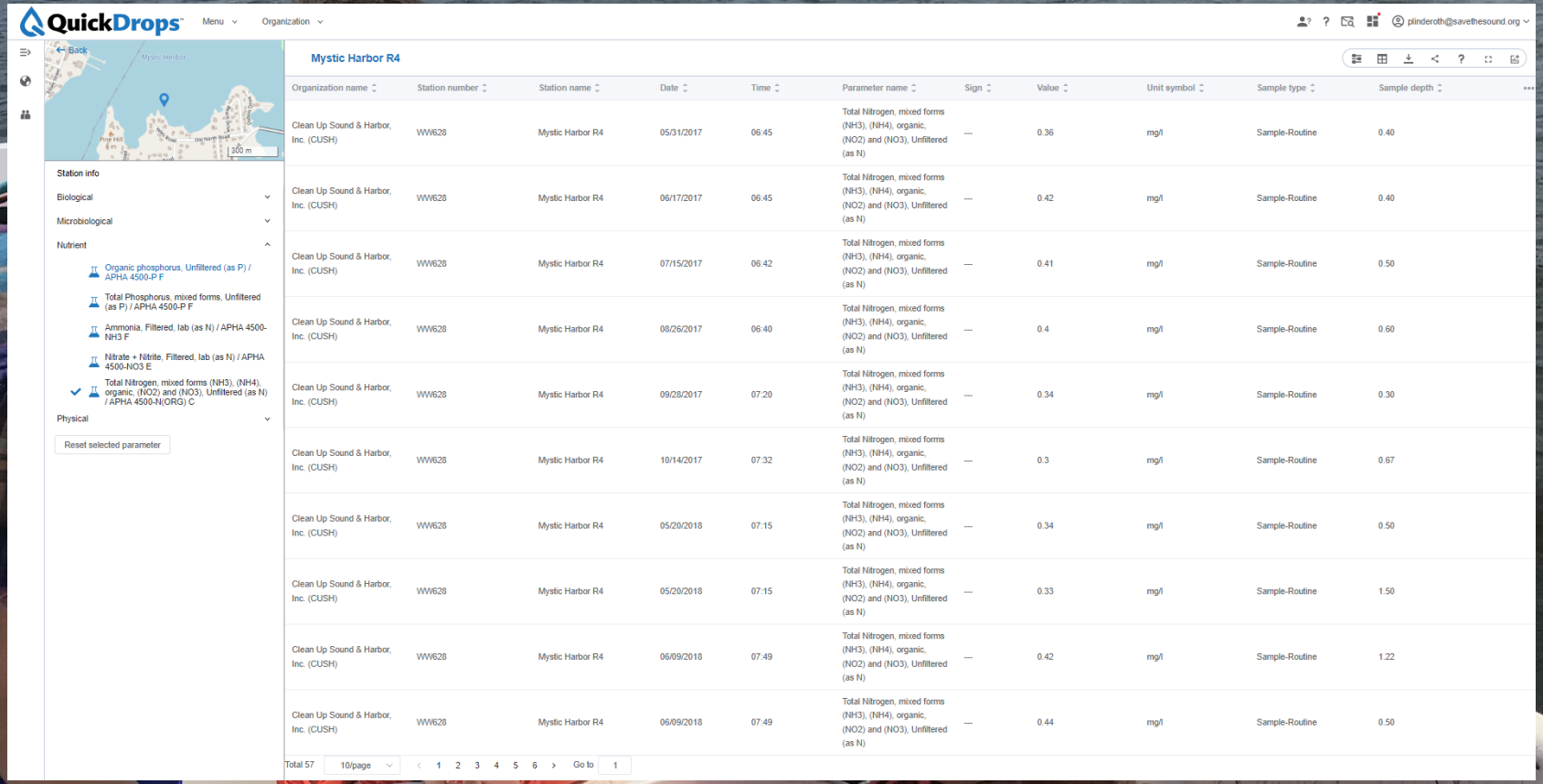
Beach Water Quality Information



Educational Opportunities

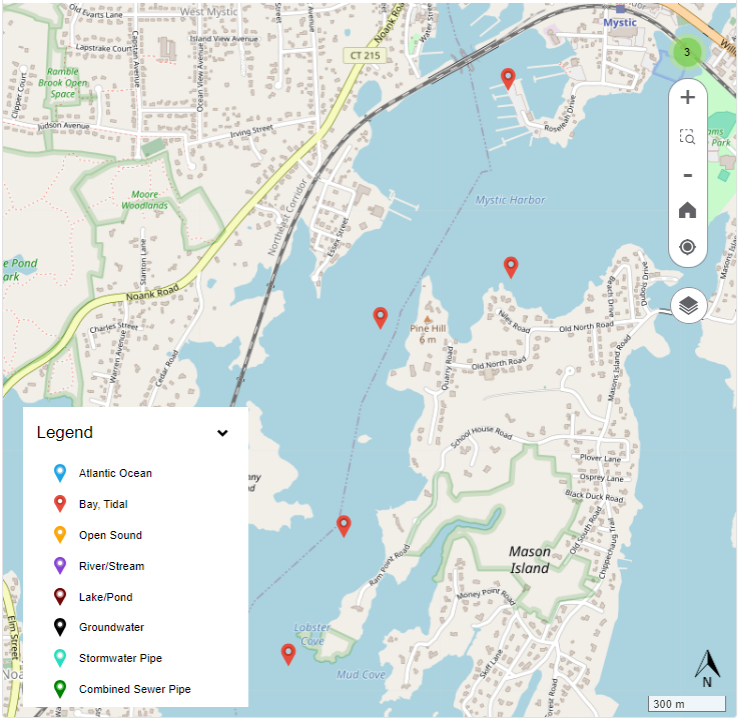


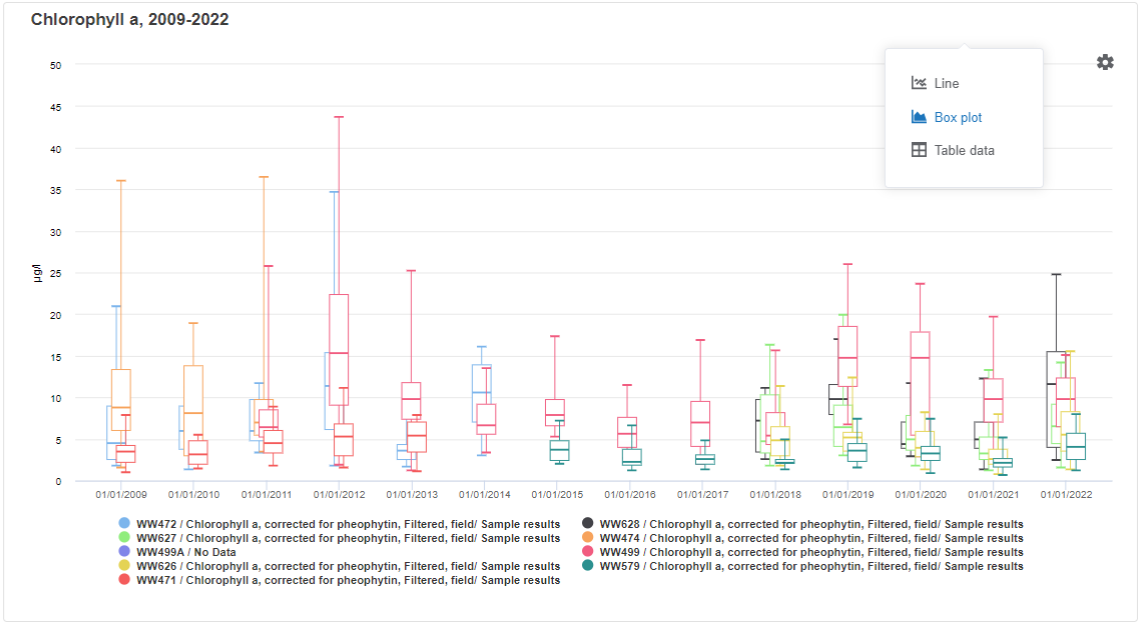
Research Opportunities



Organization name	Station number	Station name	Date	Time	Parameter name	Sign	Value	Unit symbol	Sample type	Sample depth
Clean Up Sound & Harbor, Inc. (CUSH)	WW628	Mystic Harbor R4	05/31/2017	06:45	Total Nitrogen, mixed forms (NH3), (NH4), organic, (NO2) and (NO3), Unfiltered (as N)	---	0.36	mg/l	Sample-Routine	0.40
Clean Up Sound & Harbor, Inc. (CUSH)	WW628	Mystic Harbor R4	06/17/2017	06:45	Total Nitrogen, mixed forms (NH3), (NH4), organic, (NO2) and (NO3), Unfiltered (as N)	---	0.42	mg/l	Sample-Routine	0.40
Clean Up Sound & Harbor, Inc. (CUSH)	WW628	Mystic Harbor R4	07/15/2017	06:42	Total Nitrogen, mixed forms (NH3), (NH4), organic, (NO2) and (NO3), Unfiltered (as N)	---	0.41	mg/l	Sample-Routine	0.50
Clean Up Sound & Harbor, Inc. (CUSH)	WW628	Mystic Harbor R4	08/26/2017	06:40	Total Nitrogen, mixed forms (NH3), (NH4), organic, (NO2) and (NO3), Unfiltered (as N)	---	0.4	mg/l	Sample-Routine	0.60
Clean Up Sound & Harbor, Inc. (CUSH)	WW628	Mystic Harbor R4	09/28/2017	07:20	Total Nitrogen, mixed forms (NH3), (NH4), organic, (NO2) and (NO3), Unfiltered (as N)	---	0.34	mg/l	Sample-Routine	0.30
Clean Up Sound & Harbor, Inc. (CUSH)	WW628	Mystic Harbor R4	10/14/2017	07:32	Total Nitrogen, mixed forms (NH3), (NH4), organic, (NO2) and (NO3), Unfiltered (as N)	---	0.3	mg/l	Sample-Routine	0.67
Clean Up Sound & Harbor, Inc. (CUSH)	WW628	Mystic Harbor R4	05/20/2018	07:15	Total Nitrogen, mixed forms (NH3), (NH4), organic, (NO2) and (NO3), Unfiltered (as N)	---	0.34	mg/l	Sample-Routine	0.50
Clean Up Sound & Harbor, Inc. (CUSH)	WW628	Mystic Harbor R4	05/20/2018	07:15	Total Nitrogen, mixed forms (NH3), (NH4), organic, (NO2) and (NO3), Unfiltered (as N)	---	0.33	mg/l	Sample-Routine	1.50
Clean Up Sound & Harbor, Inc. (CUSH)	WW628	Mystic Harbor R4	06/09/2018	07:49	Total Nitrogen, mixed forms (NH3), (NH4), organic, (NO2) and (NO3), Unfiltered (as N)	---	0.42	mg/l	Sample-Routine	1.22
Clean Up Sound & Harbor, Inc. (CUSH)	WW628	Mystic Harbor R4	06/09/2018	07:49	Total Nitrogen, mixed forms (NH3), (NH4), organic, (NO2) and (NO3), Unfiltered (as N)	---	0.44	mg/l	Sample-Routine	0.50

Mystic Harbor, CT Stations



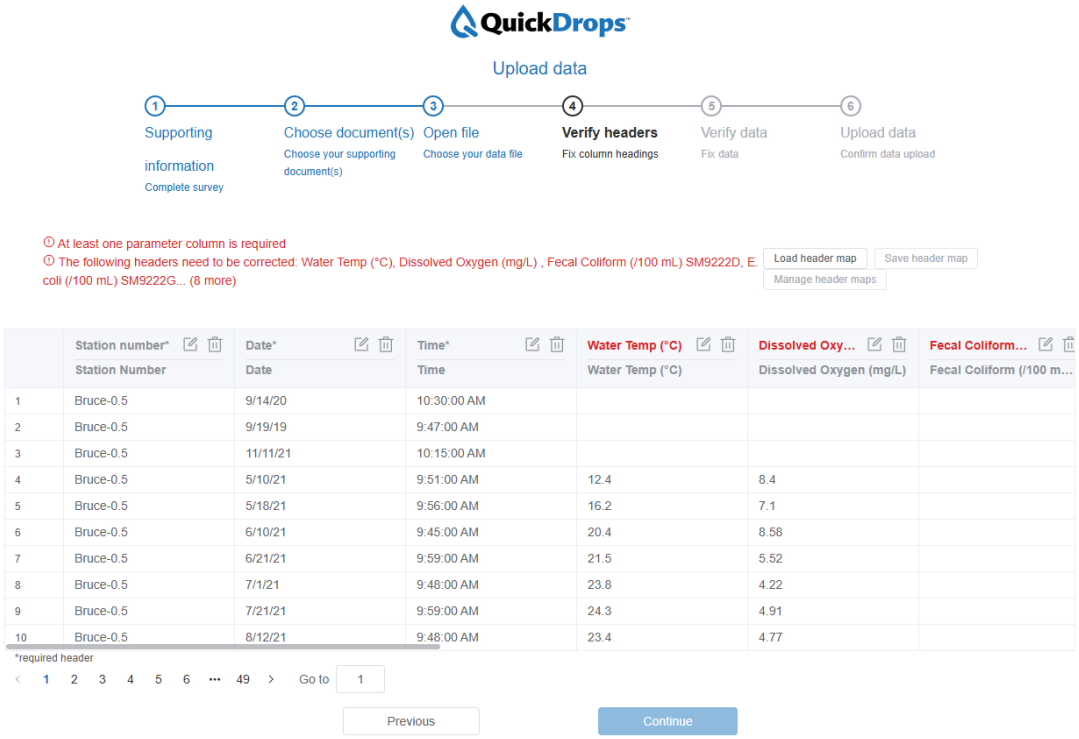


Benefits We Already Have Seen:

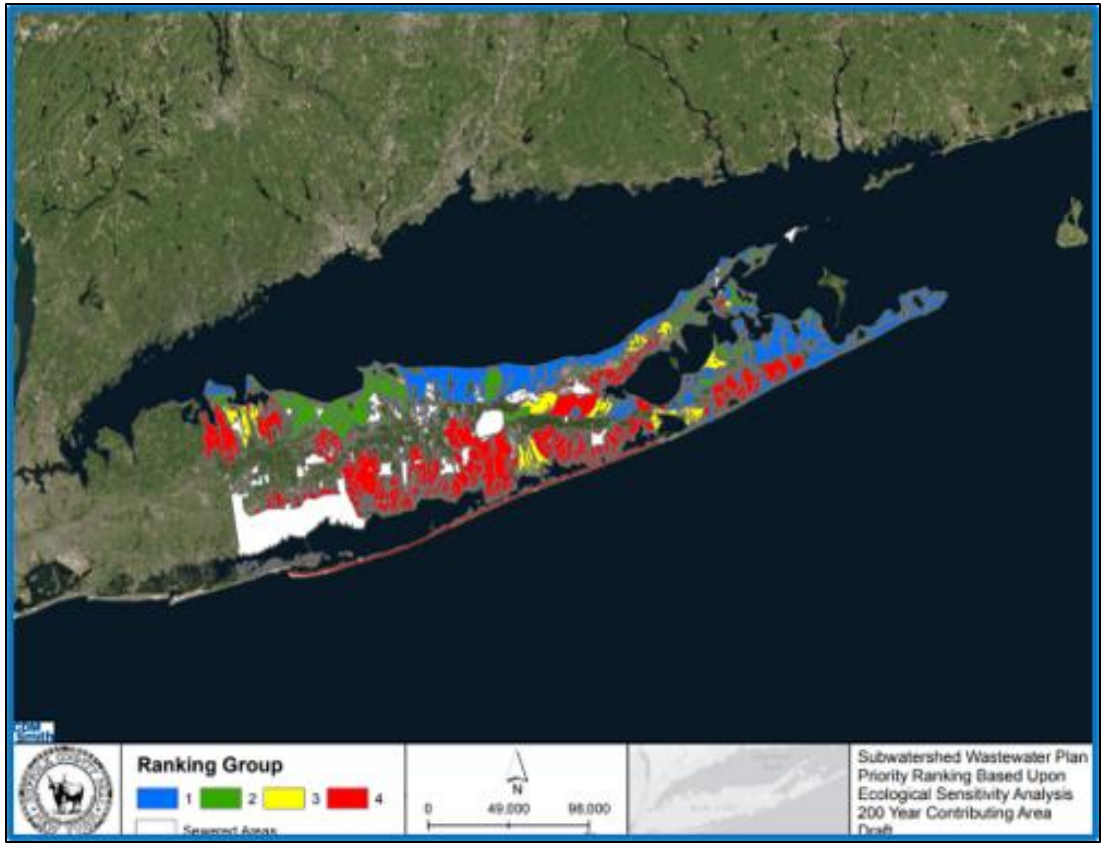
- **Immediate Data Access**: Able to compare data instantly rather than sifting through spiral-bound yearly reports
- **Comprehensive Data View**: View microbiological data, nutrient data, and physical data for one station all together
- **Targeted Insights**: Pinpoint specific problem locations and view data consistency over time
- **Advocacy Support**: Long-term data visualization substantiates our advocacy efforts for specific areas
- **Engaging Volunteers**: Volunteers can now see the data they have worked hard to help us collect
- **Collaboration with local groups**: Compare data from other local organizations to identify similarities and differences

Federal-funding Data Requirements (WQX)

HARBOR WATCH
at Earthplace



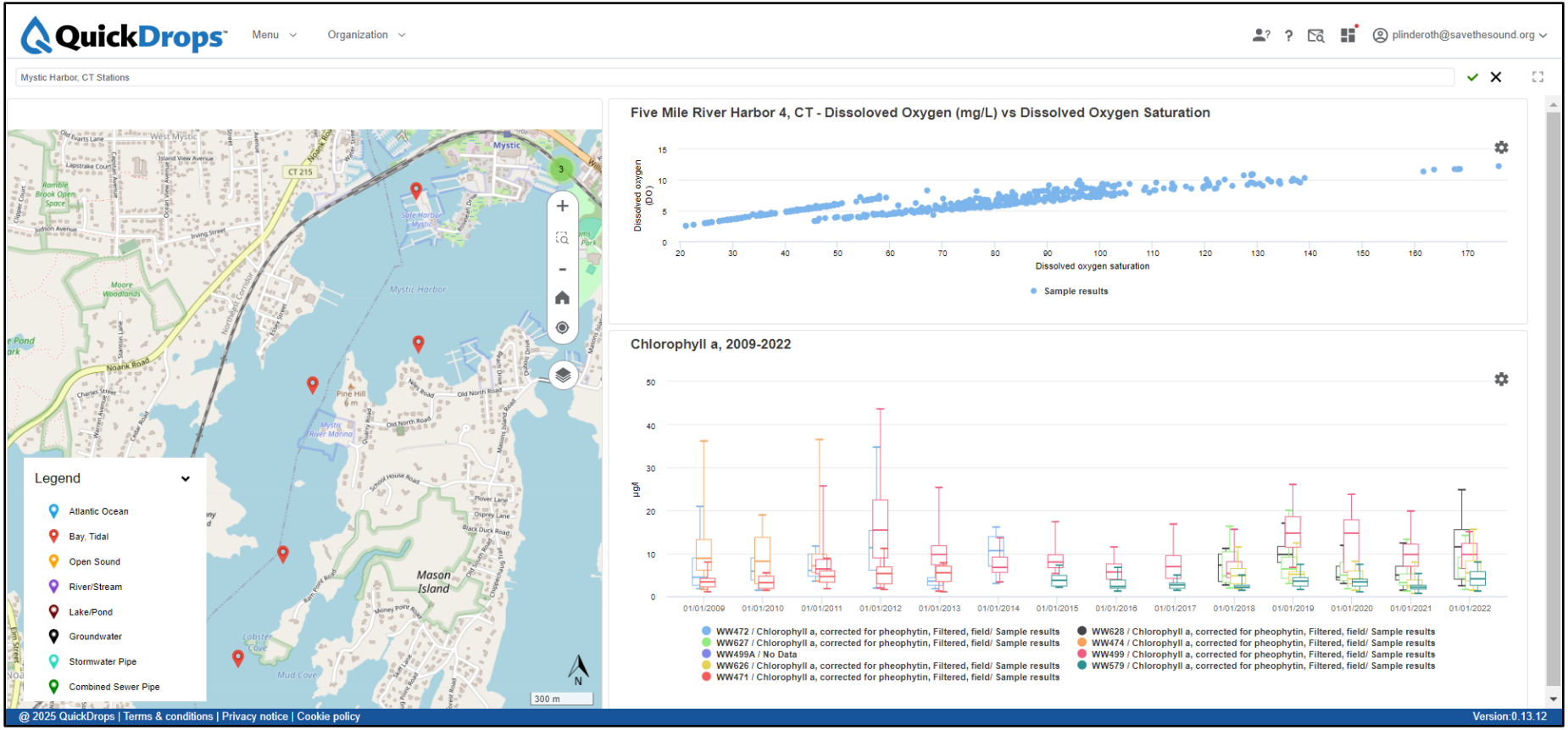
Subwatershed Analyses



QuickDrops dashboard applied to over 200 subwatersheds

Tracking baseline and future conditions

Subwatershed Analyses

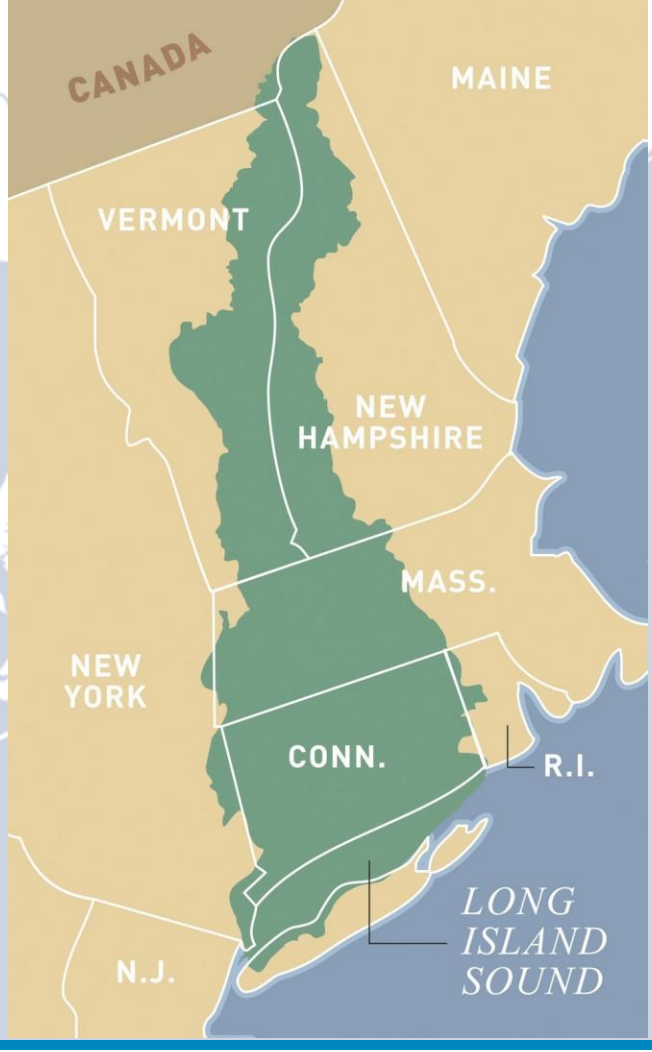


Current Steps

Expand the user area

Storytelling opportunities

New Save the Sound staff



Questions/Comments