

# Peconic Estuary Water Quality Information at Your Fingertips

The Long Island Beach & Water Quality App



**The Geospatial Center**

School of Marine and Atmospheric Sciences  
Stony Brook University

# Summary

- ❖ Developed an intuitive, location-based water quality mobile app powered by a GIS-enabled data curation web service, integrating both historical and real-time water quality data from authoritative sources within the PEP study area.
- ❖ Plan to release in September (both Apple App Store and Google Play Store).

2:04



## Loading Screen

2:01

## The Long Island Beach & Water Quality App

## Welcome Screen

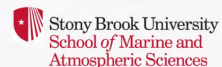
### Welcome!

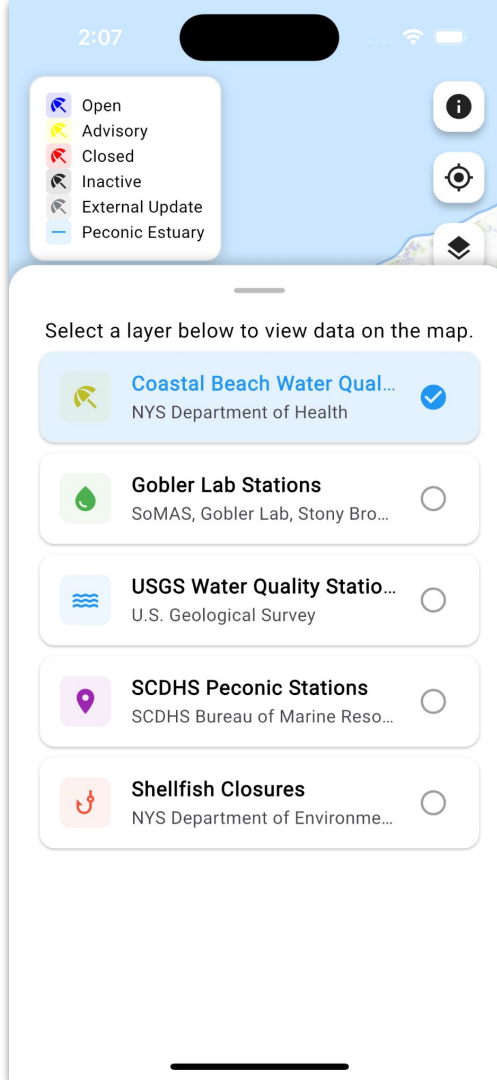
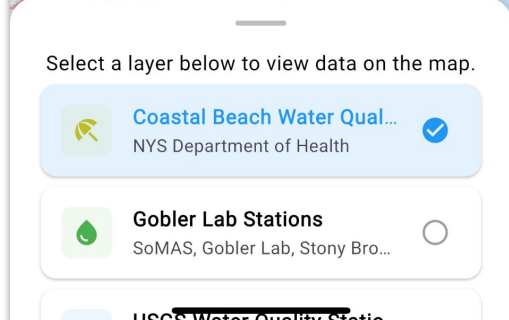
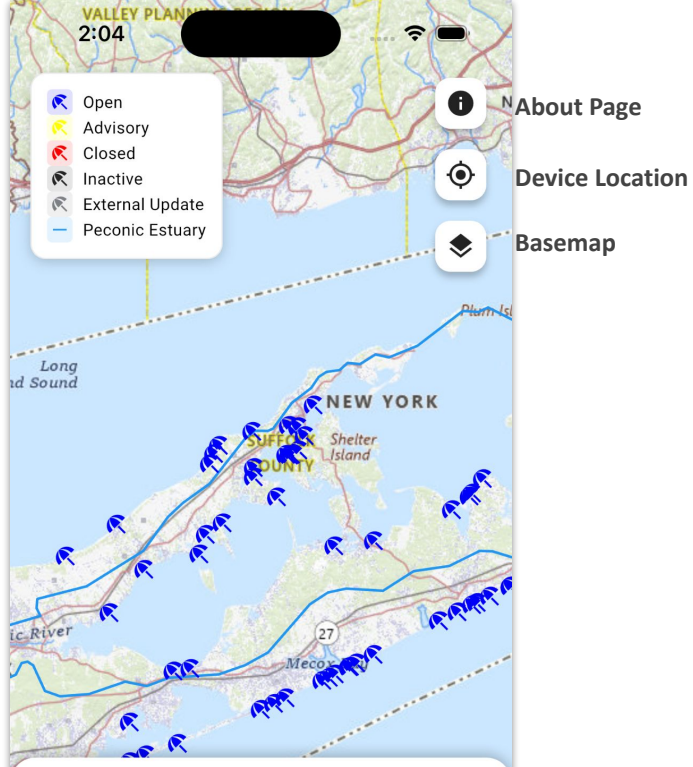
This app makes it easy to access water quality data, whether you're a beach lover, fisherman, bayman, swimmer, or looking for scientific information about Long Island's water quality conditions. The data is right at your fingertips!

Press the button below to access the map and start exploring! We hope you find the app useful and informative.

 **START EXPLORING**

Disclaimer: The Water Quality is for informational purposes only. While the app continuously mirrors the latest data from state and county sources, we recommend using the links within the app to check with the state and county health departments for the most up-to-date information.





**Main Screen:**  
a list of water quality  
information in the draggable  
bottom sheet

- Coastal Beach Water Quality
- Gobler Lab Stations
- USGS Water Quality PEP Stations
- SCDHS Peconic Estuary Stations
- Other NYS web map services
  - Shellfish Closures
  - Harmful Algal Blooms

2:05



Long Island Beach &amp; Water Quality App

## About

The Peconic Bay National Estuary Program (Peconic Estuary Partnership) has been funding water quality monitoring in the Peconics since 2000. This water quality app integrates multiple data sources including the Water Quality Index at the Gobbler Lab at Stony Brook University, the NYS Department of Health, the U.S. Geological Survey Continuous Monitoring Stations, and the Suffolk County Department of Health. For the full PEP Annual Water Quality Report click our logo below.



## Team

The SoMAS Geospatial Center (Director: Sung-Gheel Jang | Student Developer: Yemoe Aung) at Stony Brook University.

## Disclaimer

This app is for informational purposes only. While the app continuously mirrors the latest data from state and county sources, we recommend using the links within the app to check with the state and county health departments for the most up-to-date information on where swimming and fishing are permitted.

2:08



Long Island Beach &amp; Water Quality App

## Team

The SoMAS Geospatial Center (Director: Sung-Gheel Jang | Student Developer: Yemoe Aung) at Stony Brook University.

## Disclaimer

This app is for informational purposes only. While the app continuously mirrors the latest data from state and county sources, we recommend using the links within the app to check with the state and county health departments for the most up-to-date information on where swimming and fishing are permitted.

## Credits

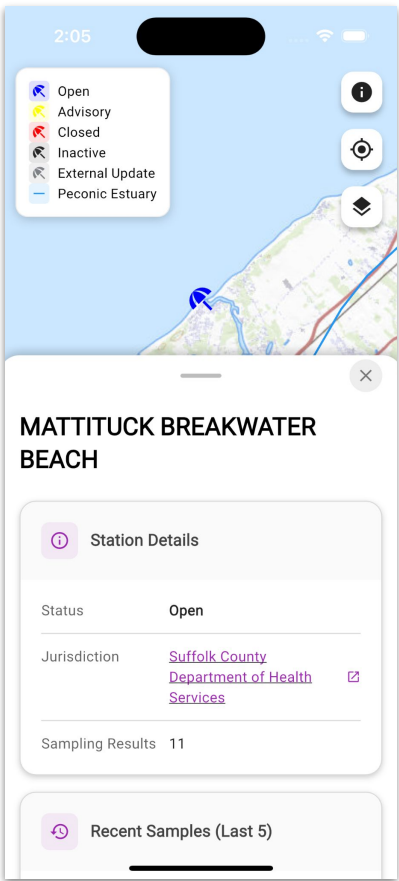
Coastal Beach Water Quality: NYS Dept. of Health  
Beach Water Quality Information | Gobbler Lab  
Stations: SoMAS Gobbler Lab, Stony Brook University |  
USGS Water Quality Stations: U.S. Geological Survey |  
SCDHS Water Quality Stations: Suffolk County  
Department of Health Services Bureau of Marine  
Resources | USGS Topo: ©2025 USGS The National  
Map | World Imagery: ©2025 Esri, Maxar, Earthstar  
Geographics, and the GIS User Community.

The Peconic Estuary Partnership funds all of the USGS continuous water quality monitoring stations in the Peconic watershed and provides support to Suffolk County and the Gobbler Lab for their water quality data efforts.

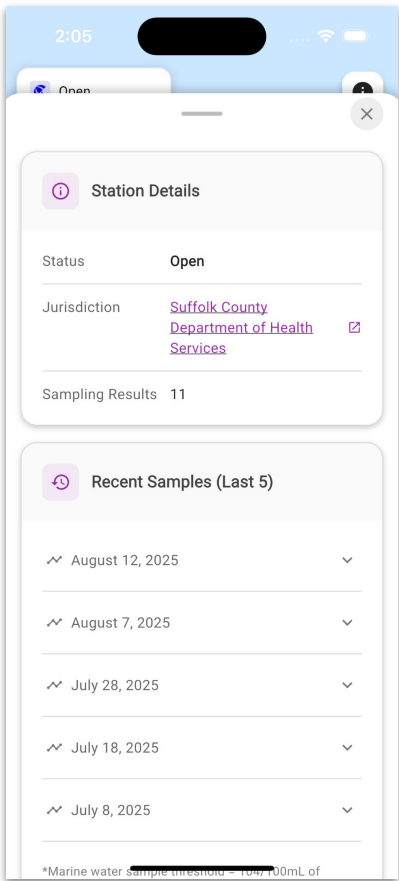
## About Page

- The PEP logo leads to [the website of the PEP Annual Water Quality Report.](#)

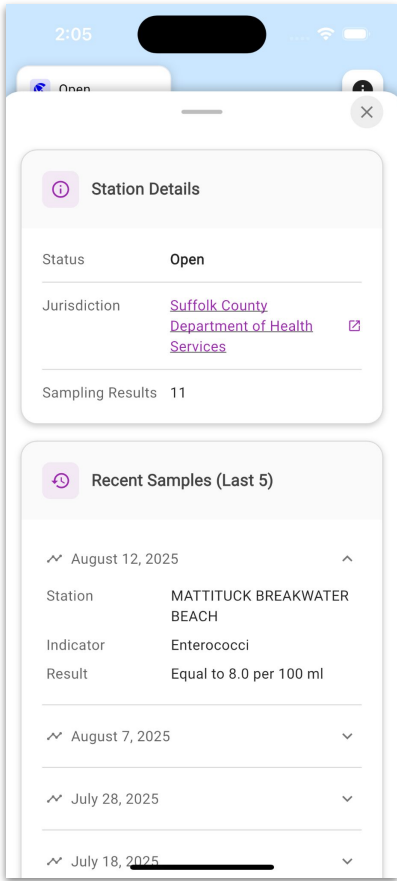
# Coastal Beach Water Quality ([NYS Department of Health](#))



Information of a Beach Site

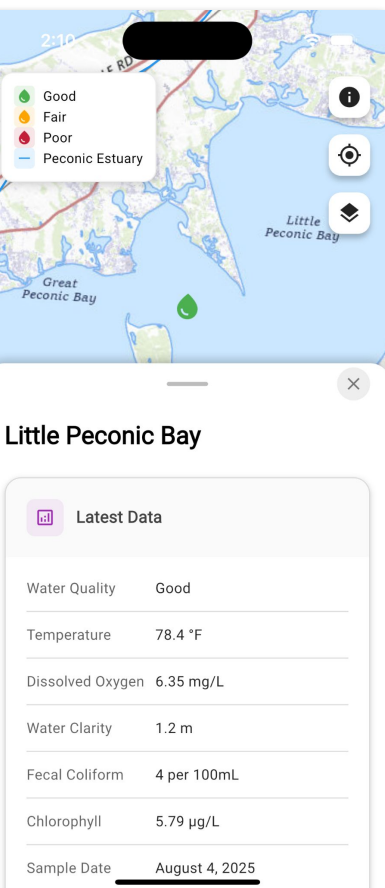
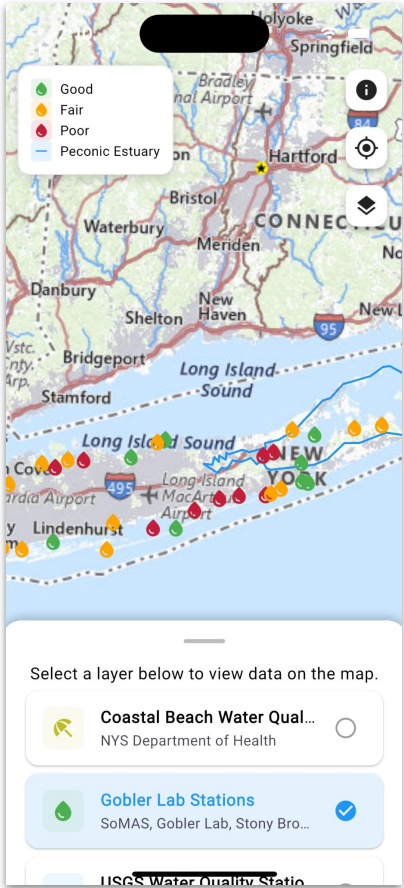


Draggable Information Sheet

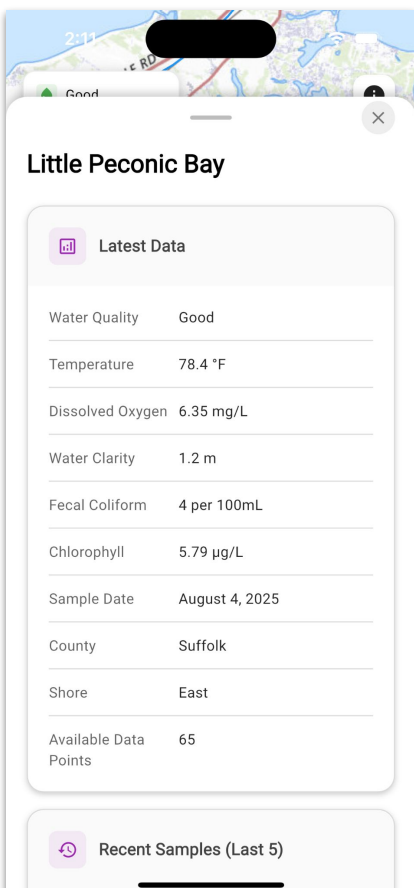


Recent Samples Collapsible

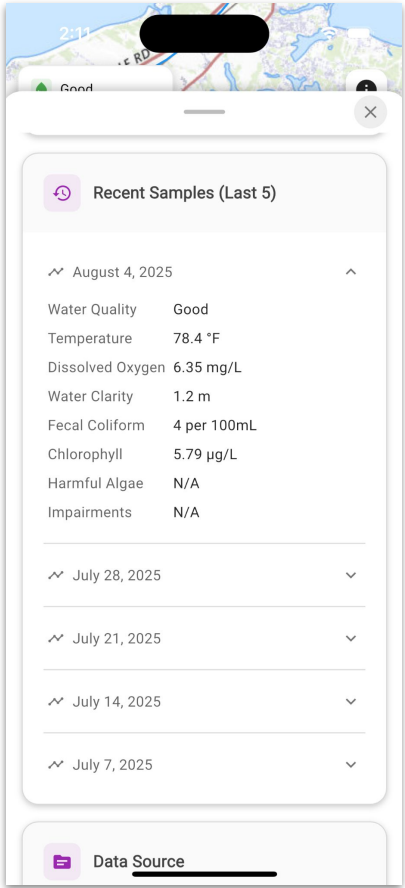
# Gobler Lab Monitoring Stations



Monitoring Site



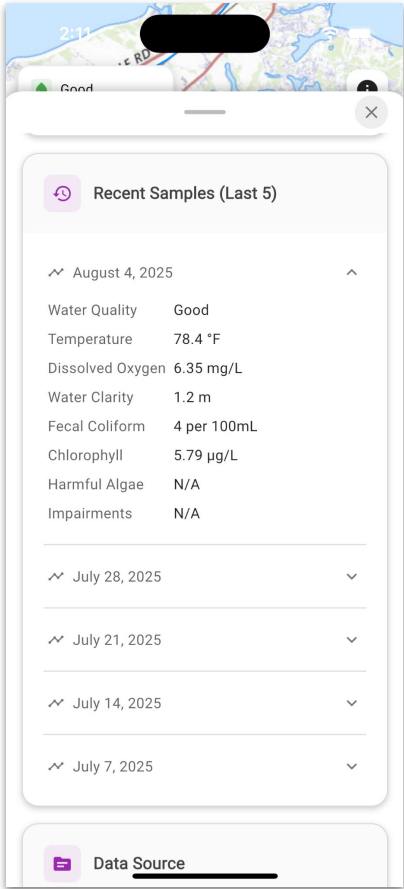
Draggable Information Sheet



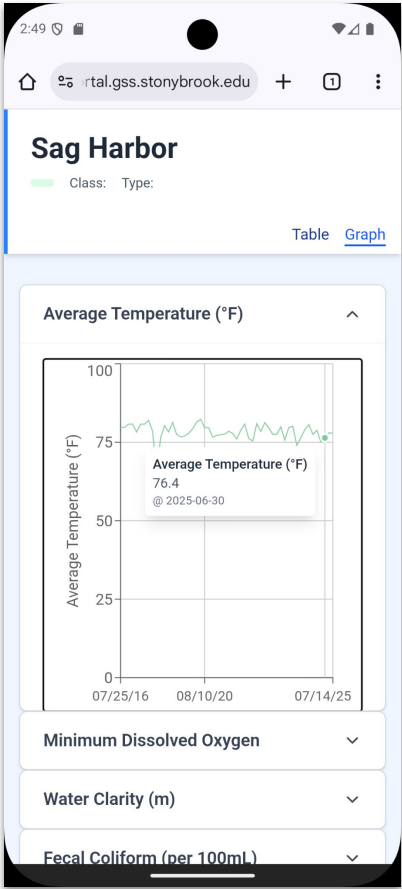
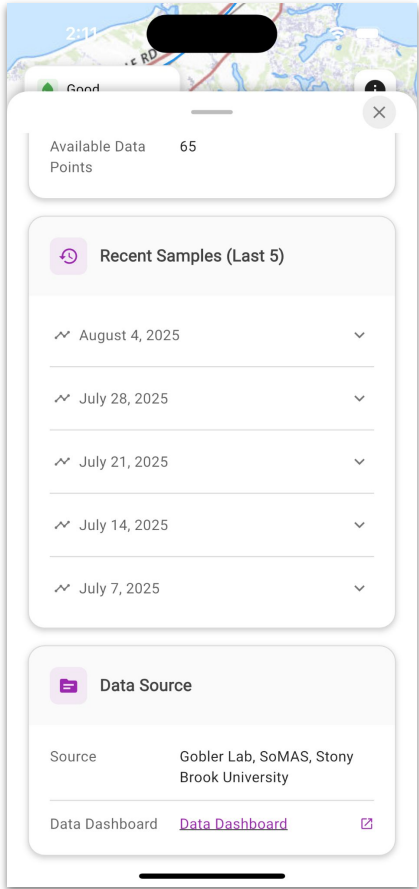
Recent Samples Collapsible



# Gobler Lab Monitoring Stations



Recent Samples Collapsible



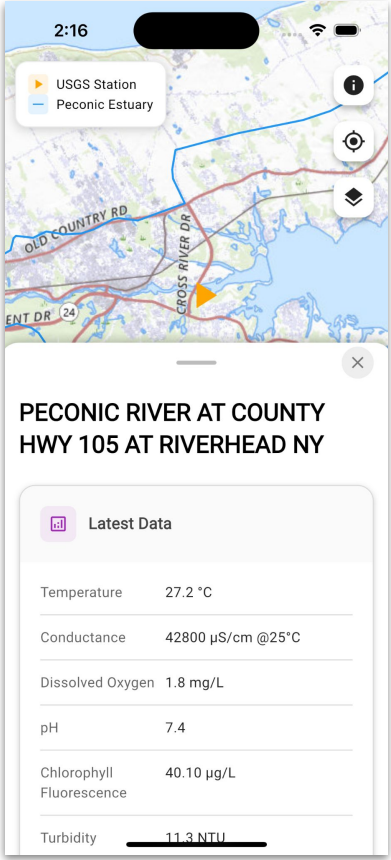
Data Dashboard View



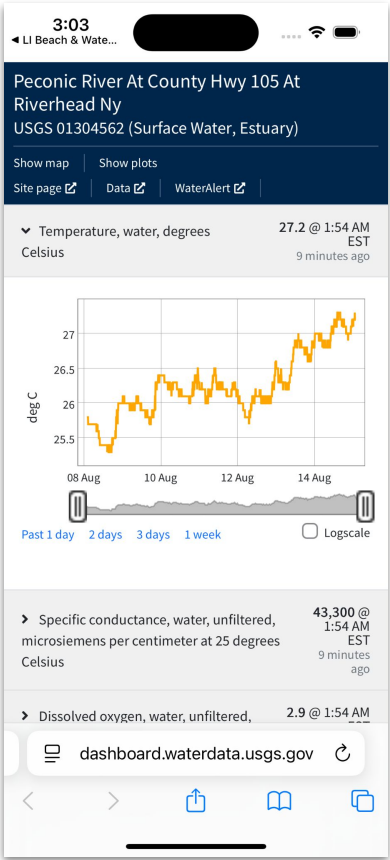
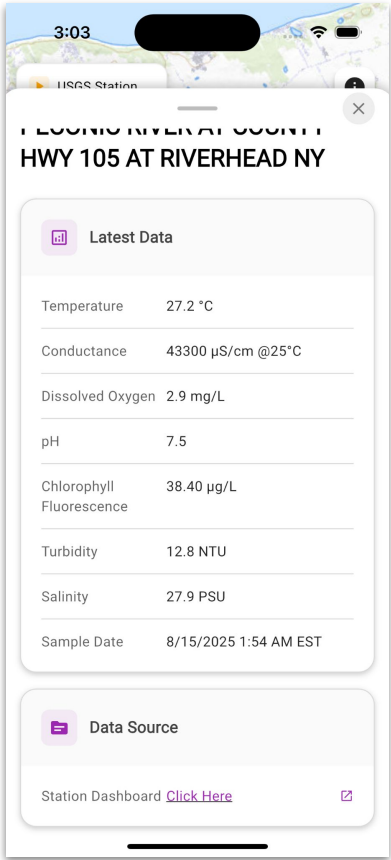
# USGS PEP Water Quality Stations (Live)



USGS PEP Monitoring Stations

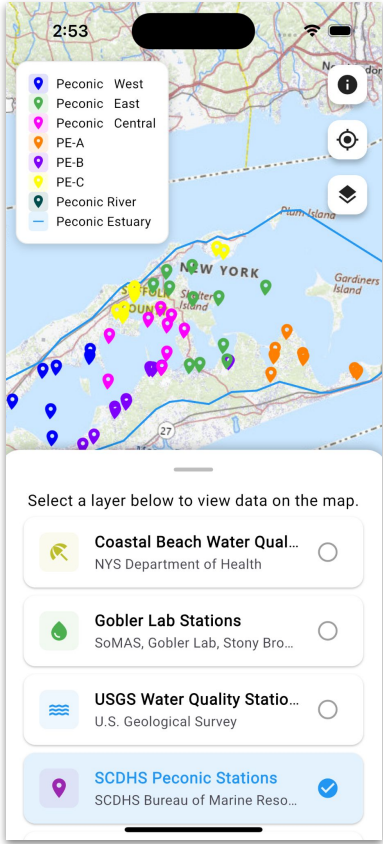


Live monitoring information

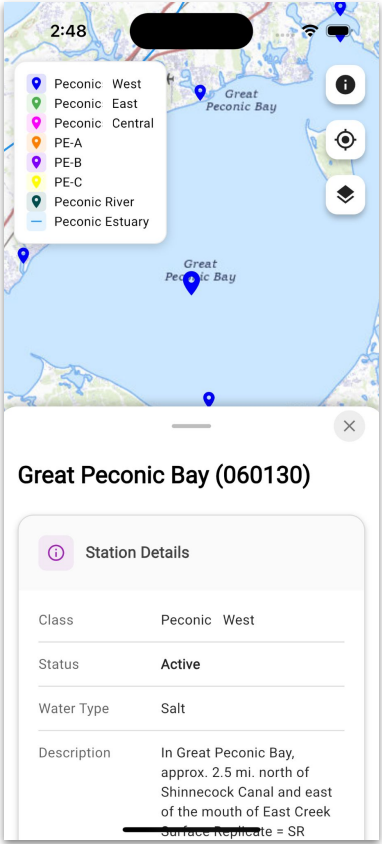


USGS Data Dashboard

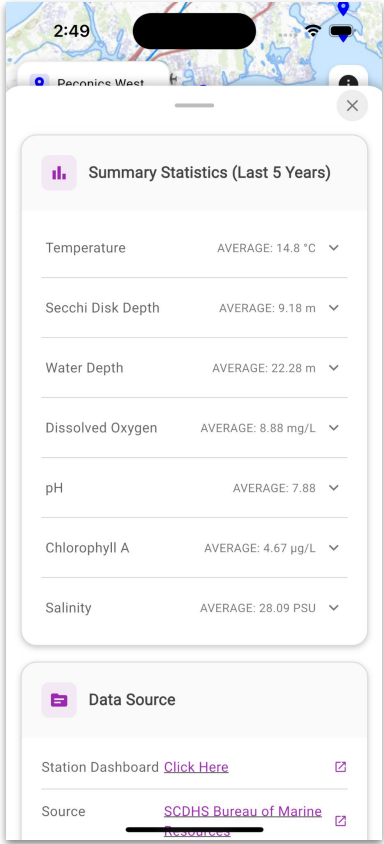
# SCDHS Peconic Estuary Stations (Suffolk County Department of Health Services)



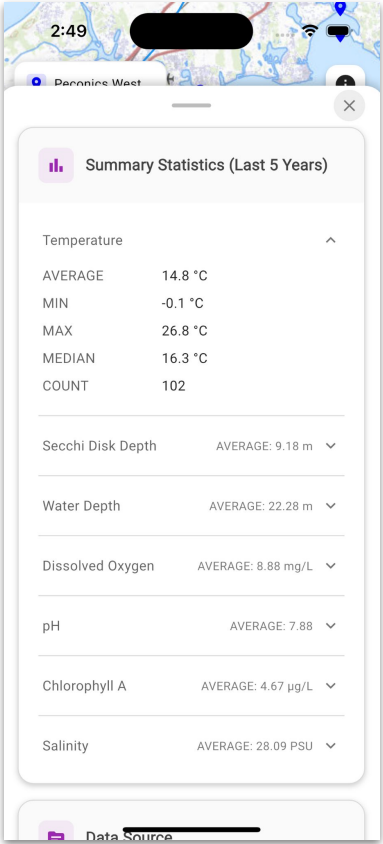
SCDHS Peconic Estuary Stations



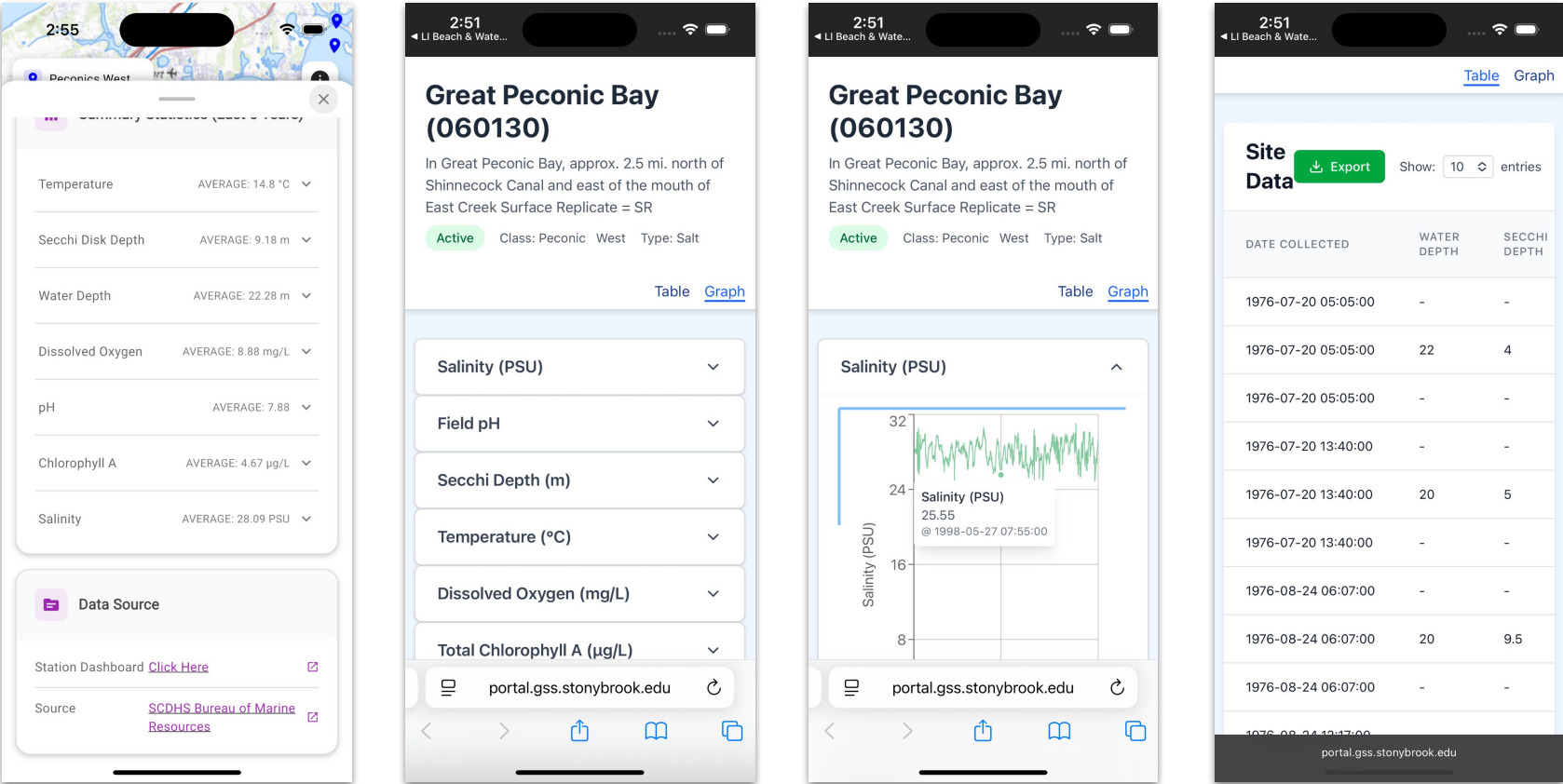
Monitoring Station Details



Collapsible Summary Statistics (Last 5 Years)



SCDHS Peconic Estuary Stations (Suffolk County Department of Health Services)



Data Dashboard View