

SFWMD DBHydro Database Access and Data Retrieval

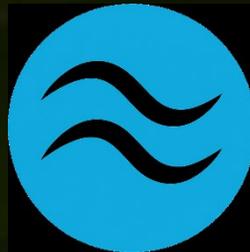
Michael Breslin – Data Scientist – SFWMD

What is DBHydro?

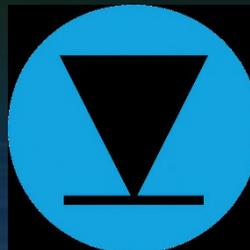
- District Corporate Environmental Database
- Multi-agency Data
- Examples of Data Available in DBHydro:

- Hydrologic
- Meteorological
- Water Quality
- Hydrogeologic

Flow



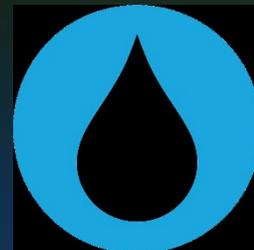
Stage



Weather



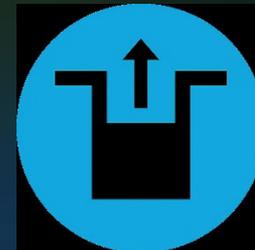
Rain



Grab

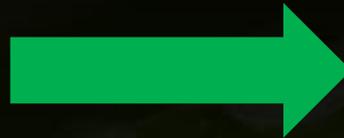


Well



What is DBHydro Insights?

DBHydro Browser



HYDROLOGIC, PHYSICAL, & OTHER TIME SERIES DATA

Surface Water ...OR get this data one of these ways:

- Meteorological [by Station](#)
- Groundwater [by Site Name](#)
- WQ - [by Hydrologic Basin](#)
- Sondes/Loads

This data is also available via the web map

HYDROGEOLOGIC DATA

[Get Data](#)

This data is also available via the web map

WATER QUALITY DATA

[Get Sample Data](#)

This data is also available via the web map

GET DATA VIA WEB MAP

OTHER

- [DBHYDR Insights \(New!\)](#)
- [ET Data and Radar-Based Rainfall Data](#)
- [Metadata/Reference Tables](#)
- [Miscellaneous Items and Reports](#)

The screenshot shows the DBHYDR insights web application interface. At the top, there is a navigation bar with the logo, search options, and user preferences. Below the navigation bar, there are five data cards for different lakes, each showing a value and a unit:

Lake Name	Value	Unit
Lake Okeechobee	12.27	ft-NGVD
Lake Istokpoga	39.14	ft-NGVD
Lake Tohopekaliga	52.64	ft-NGVD
East Tohopekaliga	55.88	ft-NGVD
Lake Kissimmee		ft-NGVD

Below the data cards, there is a search bar and a filter dropdown. At the bottom, there is a section for "Available Lens Options" with several categories: Sites, Structures, Stormwater Treatment Areas, Watersheds, Data, and System Coming Soon! There is also a link to "Show Lens Descriptions".

DBHydro Insights Homepage

The screenshot shows the DBHydro Insights homepage. At the top left is the South Florida Water Management District logo and the 'DBHYDR insights' branding. The navigation bar includes 'Lens Options', 'Pages', and 'Favorites' dropdown menus, a search bar with a question mark icon, and a 'filterBy' dropdown. Below the navigation bar, five lake insights are displayed as cards with map icons: Lake Okeechobee (12.27 ft-NGVD), Lake Istokpoga (39.14 ft-NGVD), Lake Tohopekaliga (52.64 ft-NGVD), East Tohopekaliga (55.88 ft-NGVD), and Lake Kissimmee (ft-NGVD). A secondary search bar labeled 'Search Insights (2 characters min)' and 'filterBy' is located below these cards. A section titled 'Available Lens Options' features six categories: Sites, Structures, Stormwater Treatment Areas, Watersheds, Data, and System Coming Soon! Each category is represented by a small image. A link for 'Show Lens Descriptions' is positioned below the 'System Coming Soon!' category.

DBHydro Insights Homepage

The screenshot shows the DBHydro Insights homepage. At the top left is the South Florida Water Management District logo and the 'DBHYDR insights' branding. A search bar on the right contains the text 'Search (2 characters min)' and a 'filterBy' dropdown. A 'Pages' dropdown menu is open, listing the following items: SFWMD Home, User's Guide, What's New, FAQ, Reference Tables, Site Status, Discharge Calculator, STA Target Stage Report, ET Data and Radar-Based Rainfall Data, District Daily Rainfall Report, Water Quality OLECAS Report, Geospatial Open Data Portal, and Resiliency. The main content area features three map-based data points: Lake Okeechobee (12.27 ft-NGVD), East Tohopekaliga (55.88 ft-NGVD), and Lake Kissimmee (ft-NGVD). Below these are three featured tiles: 'Sites' with an aerial view of a water facility, 'Data' with a laptop displaying a website, and 'System Coming Soon!' with a map of Florida.

DBHydro Insights Homepage

The screenshot shows the DBHydro Insights homepage. At the top left is the SFWMD logo and the 'DBHYDR insights' branding. Navigation links for 'Lens Options', 'Pages', and 'Favorites' are present. A search bar at the top right contains the text 'Search (2 characters min)' and a 'filterBy' dropdown. Below this, five lake elevation cards are displayed: Lake Okeechobee (12.27 ft-NGVD), Lake Istokpoga (39.14 ft-NGVD), Lake Tohopekaliga (52.64 ft-NGVD), East Tohopekaliga (55.88 ft-NGVD), and Lake Kissimmee (ft-NGVD). A red arrow points to the Lake Kissimmee card. Below the cards is another search bar labeled 'Search Insights (2 characters min)' with a 'filterBy' dropdown, also indicated by a red arrow. At the bottom, an 'Available Lens Options' section features six categories: Sites, Structures, Stormwater Treatment Areas, Watersheds, Data, and System Coming Soon! A 'Show Lens Descriptions' link is located below these options.

DBHydro Insights Homepage

The screenshot displays the DBHydro Insights homepage. At the top left is the South Florida Water Management District logo and the 'DBHYDR insights' branding. The navigation bar includes 'Lens Options', 'Pages', and 'Favorites' dropdown menus, along with a search bar and a 'filterBy' dropdown. A 'Data' dropdown menu is open, listing 'Hydrology & Continuous', 'Field Sample Results (WQ)', 'Hydrogeology', and 'Map'. A red arrow points to the 'Map' option. Below the navigation, there are four data cards for lakes: 'Lake Istokpoga' (39.14 ft-NGVD), 'Lake Tohopekaliga' (52.64 ft-NGVD), 'East Tohopekaliga' (55.88 ft-NGVD), and 'Lake Kissimmee' (ft-NGVD). At the bottom, a 'Lens Options' section features six categories: 'Sites', 'Structures', 'Stormwater Treatment Areas', 'Watersheds', 'Data', and 'System Coming Soon!'. A 'Show Lens Descriptions' link is located below these categories.

DBHydro Insights Homepage

The screenshot displays the DBHydro Insights web application interface. At the top, there is a navigation bar with the DBHydro logo, search options, and user preferences. The main area features a map of South Florida with numerous data points represented by blue and green icons. On the left, a 'Layer List' panel is visible, showing various data layers such as 'DBHYDRO Wells and Boreholes', 'MDM Site Centroids', and 'DBHYDRO Sites and Stations'. An 'Enhanced Search' panel is also present, allowing users to search by shape, value, or spatial location. The map includes a grid and various geographical labels like 'Buckhead Ridge', 'Lake Okeechobee', and 'Jupiter'. The bottom of the interface shows a toolbar with navigation and map controls, and a footer with copyright information and the Esri logo.

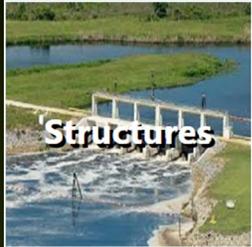
DBHydro Insights Homepage

The screenshot shows the DBHydro Insights homepage. At the top left is the South Florida Water Management District logo and the 'DBHYDR insights' branding. The navigation bar includes 'Lens Options', 'Pages', and 'Favorites' dropdown menus, a search bar with a question mark icon, and a 'filterBy' dropdown. Below the navigation bar, five lake insights are displayed as cards with map icons: Lake Okeechobee (12.27 ft-NGVD), Lake Istokpoga (39.14 ft-NGVD), Lake Tohopekaliga (52.64 ft-NGVD), East Tohopekaliga (55.88 ft-NGVD), and Lake Kissimmee (ft-NGVD). A secondary search bar and 'filterBy' dropdown are located below these cards. A red-bordered box highlights the 'Available Lens Options' section, which contains six categories: Sites, Structures, Stormwater Treatment Areas, Watersheds, Data, and System Coming Soon! Below these options is a link to 'Show Lens Descriptions'.

DBHydro Insights Homepage

The screenshot shows the DBHydro Insights homepage. At the top left is the South Florida Water Management District logo and the 'DBHYDR insights' branding. The top navigation bar includes 'Lens Options', 'Pages', and 'Favorites' dropdown menus, a search bar with the text 'Search (2 characters min)', and a 'filterBy' dropdown. A navigation menu is open, listing 'Home', 'Site', 'Structure', 'STA', 'Watershed', and 'Data'. The 'Data' menu item is highlighted with a red box, and a red arrow points from it to the 'Data' lens in the main content area. The main content area features several lenses: 'Lake Istokpoga' (39.14 ft-NGVD), 'Lake Tohopekaliga' (52.64 ft-NGVD), 'East Tohopekaliga' (55.88 ft-NGVD), and 'Lake Kissimmee' (ft-NGVD). Below these are six lens thumbnails: 'Sites', 'Structures', 'Stormwater Treatment Areas', 'Watersheds', 'Data', and 'System Coming Soon!'. A link 'Show Lens Descriptions' is located below the thumbnails.

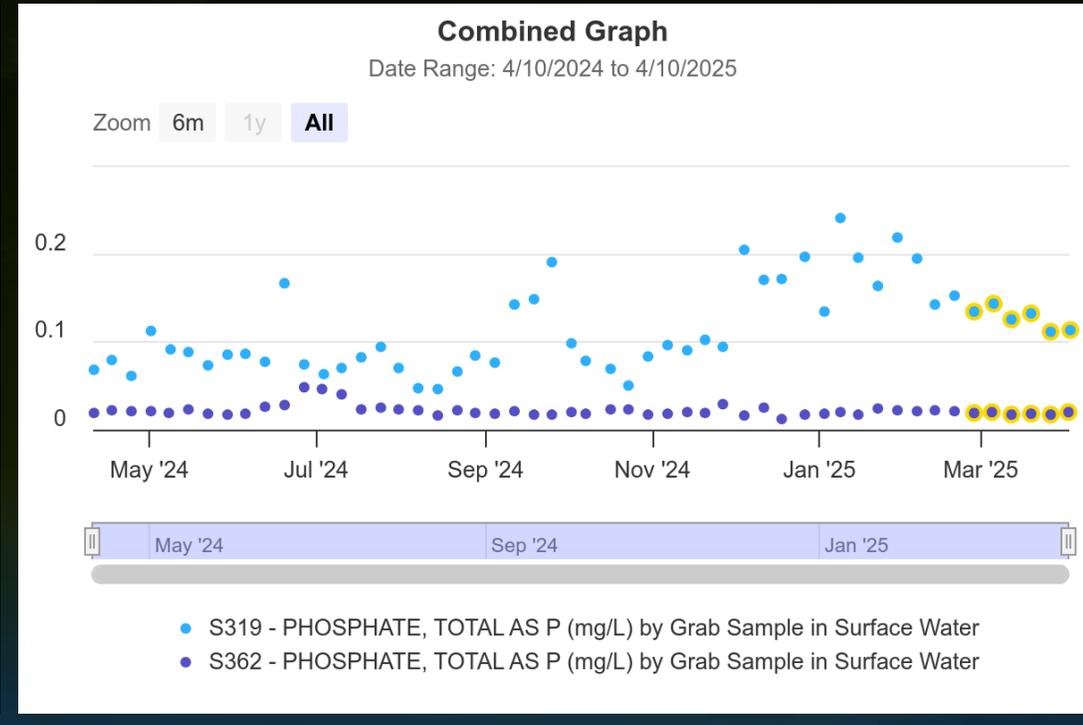
Lenses in DBHydro Insights



Current Conditions from the Site/Structure Lens



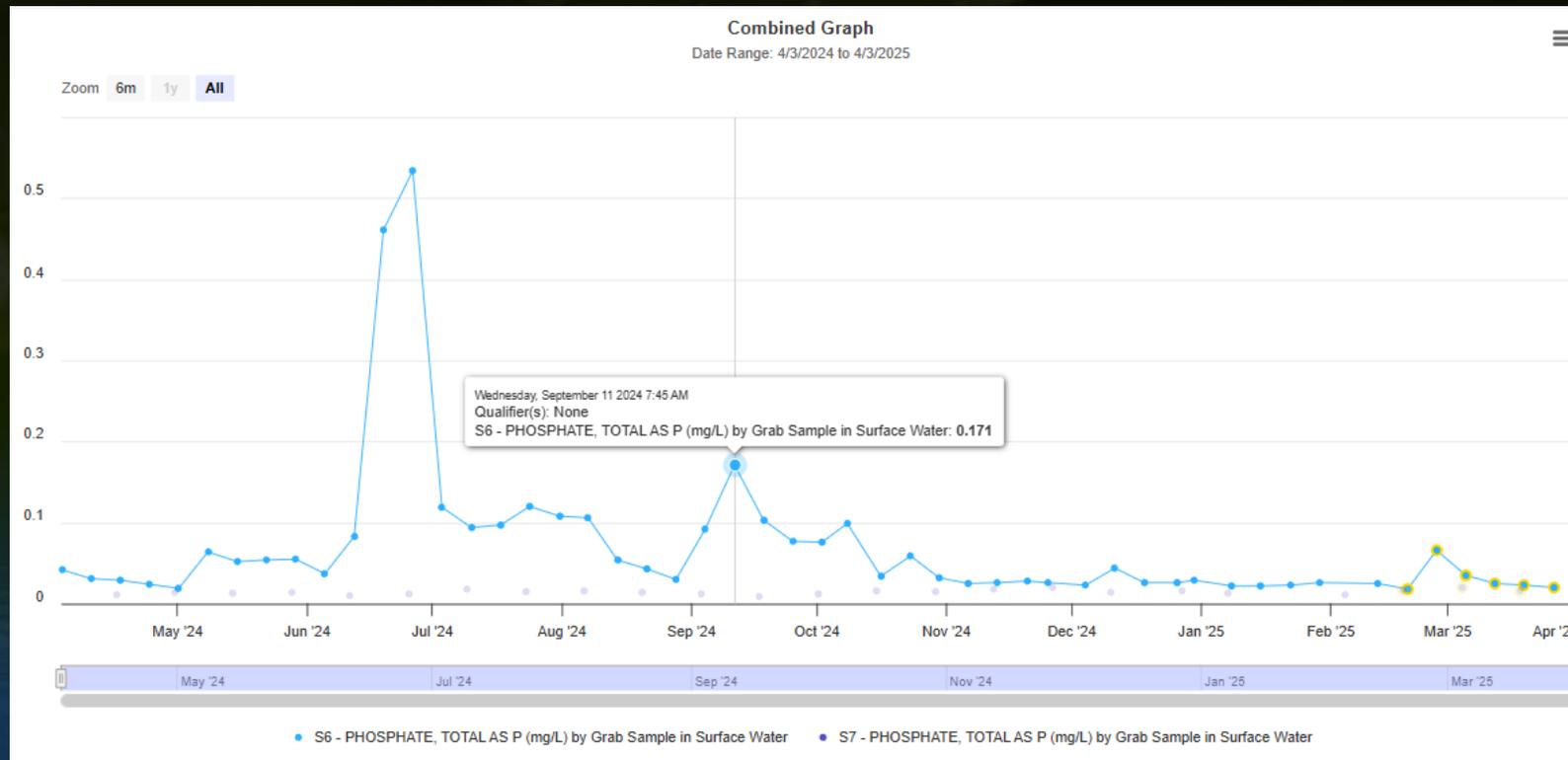
Combined Graph of Stage from Data Lens



Data Lens

➤ Interactive Visualizations:

Explore datasets through charts, graphs, and maps for deeper insights.



Data Lens

➤ Customizable Filters:

Refine data by parameters, date ranges, locations, or attributes.

➤ Sort and re-order columns

Water Qua

▼ Filter Criteria (7)

This section shows a summary of your selected filters. Use left hand side filters to refine results summary

Date Range: 365days

Stations: S319 ⊗

Parameters: 25 ⊗ 9 ⊗ 7 ⊗

Methods: ACF ⊗ G ⊗

▼ List of Datasets Found - 4

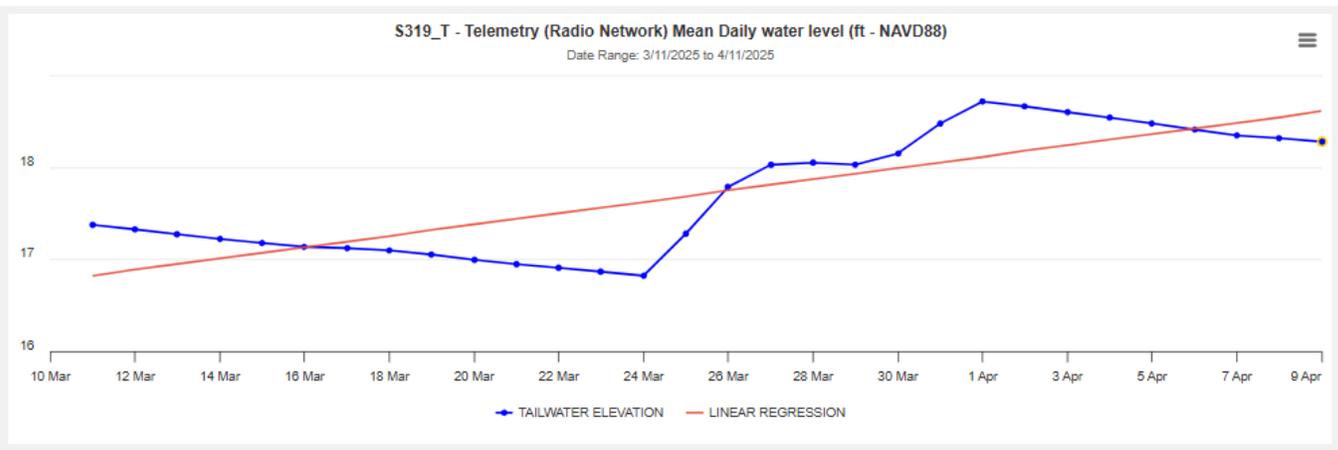
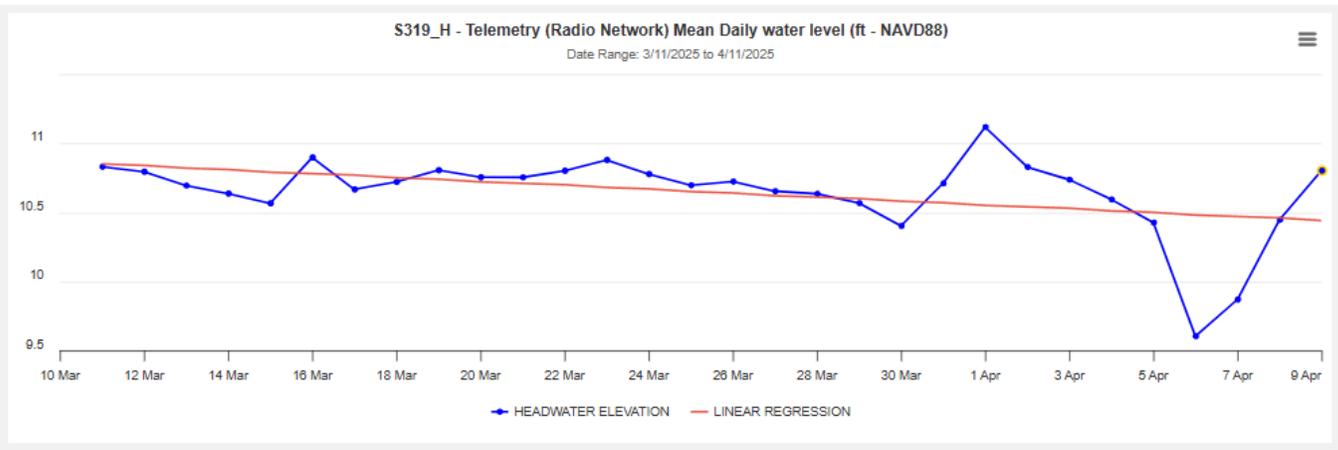
Hide  Download Dataset List  Reference Tables 

<input type="checkbox"/>	↑ 1 Project	↑ 2 Station	↑ 3 Parameter Desc	↑ 4 Matrix
<input type="checkbox"/>	ST1E	S319	PHOSPHATE, TOTAL AS P	SW
<input type="checkbox"/>	ST1E	S319	PHOSPHATE, TOTAL AS P	SW
<input type="checkbox"/>	ST1E	S319	SP CONDUCTIVITY, FIELD	SW
<input type="checkbox"/>	ST1E	S319	Temperature	SW

Showing 1 to 4 of 4 << <

Data Lens

Values highlighted in yellow or dashes indicate provisional data
 Rainfall provisional data plotted as lighter shade of blue



Multiple Charting Options:

- Multiple Time Series On the Same Graph
- Simple
 - Single Charts
 - Stacked Charts

Data Lens

➤ **Export Options: Download visualizations or filtered datasets (CSV, PNG, etc.)**

Choose Output Options

*Maximum of 250,000 data points at this time
Row count for current selection(s): 76

Report Type: Timeseries

Report Format: File

Date Range: Past 365 Days

Get Data

Print chart

Download PNG image

Download JPEG image

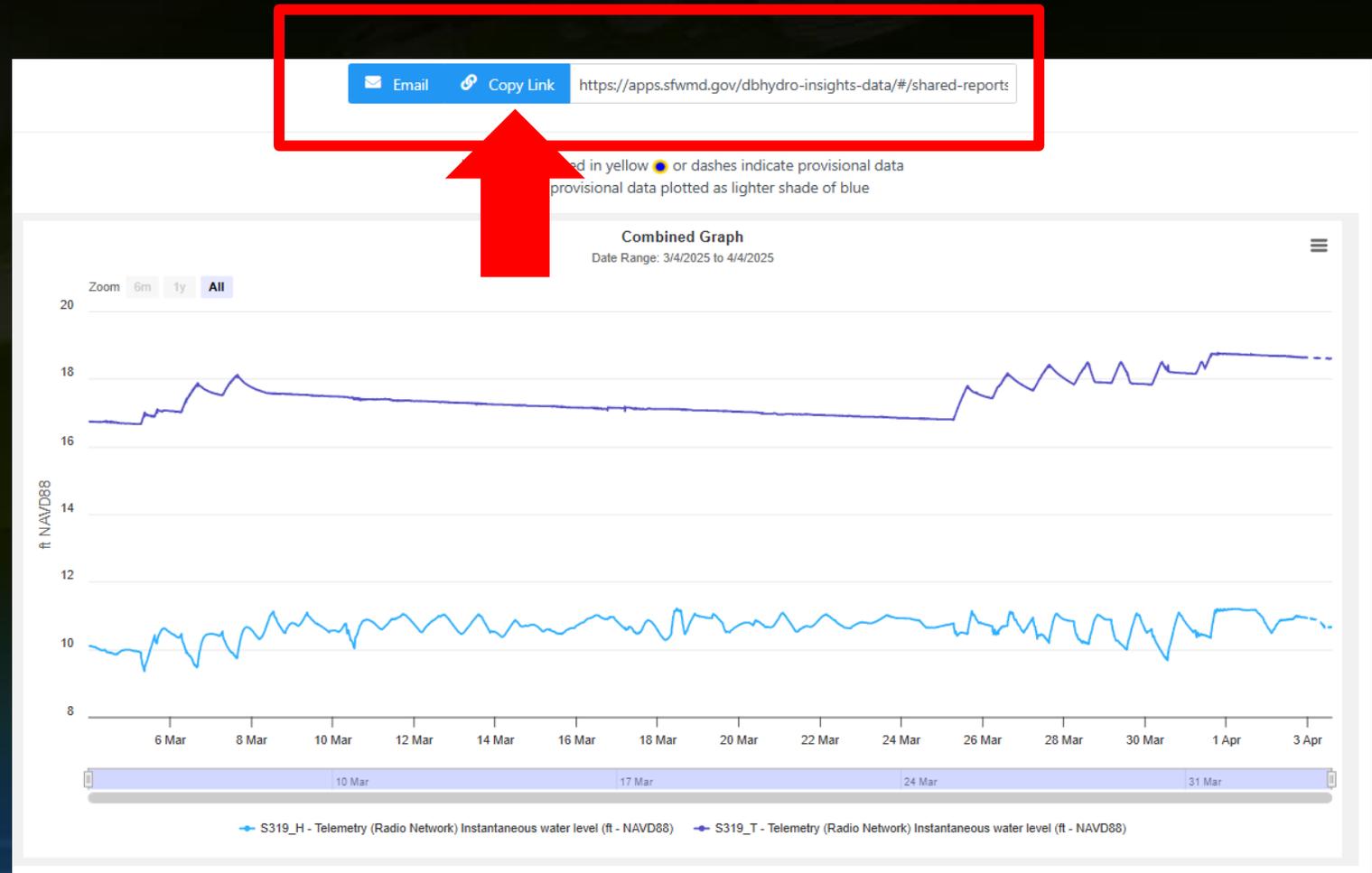
Download PDF document

Download CSV

Download XLS

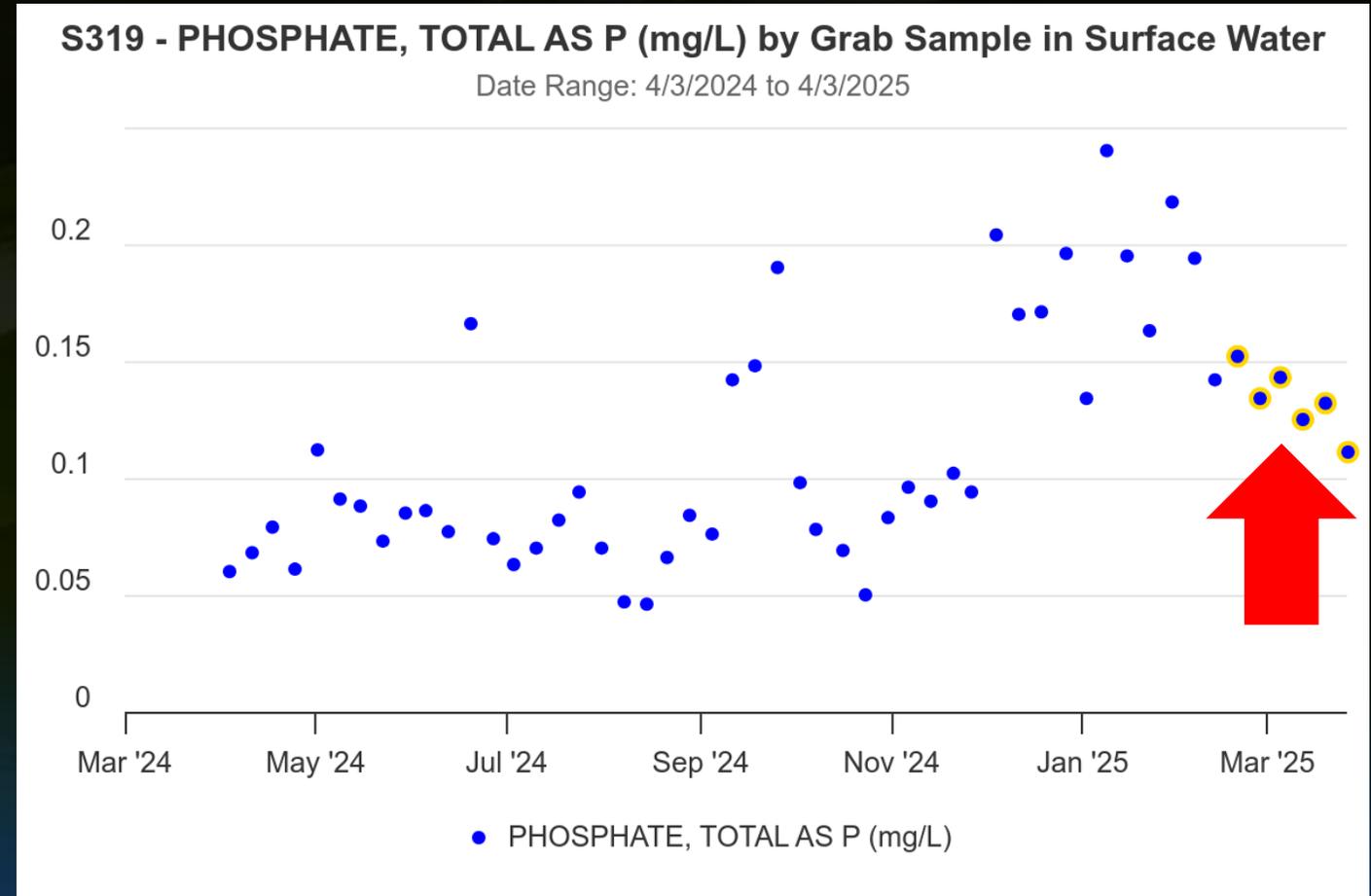
Data Lens

- **URL Creation:**
Generate dynamic, shareable URLs that reflect current views.
- Copy URL to Desktop
 - Add URL to Bookmarks
 - Share URL through email



Data Lens

➤ **Real-Time Updates:**
Access the most recent data, including provisional values.



Data Lens

➤ Reference Tables: View metadata, monitoring plans, and station attributes.

> Filter Criteria (1)

▼ List of Datasets Found

Hide ▾ Download Dataset List ⬇ Reference Tables 📄

<input type="checkbox"/>	↑ 1 Station	↑↓ Site	↑ 2 Parameter	↑ 3 Units	↑ 4 Frequency	↑ 5 Statistic Type	↑ 6 Agency	↑ 7 Strata	↑ 8 Gate No.	↑↓ Recorder	↑↓ Sensor
<input type="checkbox"/>	S319 H	S319	STG	ft NAVD88	BK	INST	WMD	0		DRV	H
<input type="checkbox"/>	S319 H	S319	STG	ft NAVD88	BK	INST	WMD	0		TELE	H
<input type="checkbox"/>	S319 H	S319	STG	ft NAVD88	DA	MEAN	WMD	0		DRV	H
<input type="checkbox"/>	S319 H	S319	STG	ft NAVD88	DA	MEAN	WMD	0		TELE	H
<input type="checkbox"/>	S319 P	S319	FLOW	cfs	BK	INST	WMD	0		DRV	
<input type="checkbox"/>	S319 P	S319	FLOW	cfs	DA	MEAN	WMD	0		PREF	
<input type="checkbox"/>	S319 P	S319	FLOW	cfs	DA	MEAN	WMD	0		DRV	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	DA	MEAN	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	DA	MEAN	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	DA	MEAN	WMD	0		TELE	

Showing 1 to 15 of 50 << < 1 > >> 15 ▾

Pages ▾ Favorites ▾

- SFWMD Home
- User's Guide
- What's New
- FAQ
- Reference Tables
- Site Status
- Discharge Calculator
- STA Target Stage Report
- ET Data and Radar-Based Rainfall Data
- District Daily Rainfall Report
- Water Quality OLECAS Report
- Geospatial Open Data Portal
- Resiliency >

Data Lens Overview

- A modern, interactive way to explore South Florida's environmental data
- Tools to filter, visualize, compare, and export multi-agency datasets
- Faster access to current and provisional data for informed decision-making
- Improved transparency, usability, and performance over the legacy browser
- Built with the needs of scientists, analysts, and the public in mind

Reach out to us at datarequests@sfwmd.gov