



the journey to restore
America's Everglades

ADaPT -Data Validation
DBHYDRO -Data access
Laboratory Audits

Validation

Data Validation is performed with respect to some specified pre-determined set of performance criteria (Data Quality Objectives) in order to help determine whether the data are appropriate for the intended use

What do end data user's want?

- “Reliable” data
- Data of known quality
- Low detection limits
- Legally defensible data
- Documentation and organized reports
- Easy/comprehensive data access
- Supporting QA/QC data for all final results

Summary of SFWMD Validation Procedure

- Samples are grouped in Work Orders (WOs), collected and recorded in a Header Sheet (HS) by sample collectors, and delivered to the laboratory for analysis
 - The HS is then verified and approved by the Project Manager (PM)
- Log-in staff logs sample information into the Laboratory Information Management System (LIMS) from the HS
 - Laboratory analysts conduct analyses and enter results into the LIMS
 - Laboratory supervisor, Laboratory QA officer and Laboratory Manager verify and approve the results

Summary of SFWMD Validation Procedure

- Lab Receipt Deliverable (LRD) and Lab Data Deliverable (LDD) are created and Data are reviewed and validated via ADaPT by the Validation Section
- SFWMD Electronic Data Deliverable with narrative is created
- Data is entered in DBHYDRO

ADaPT Areas of Validation

- COC (Chain of Custody)
- Receipt Temperature
- Preservation
- Containers Used
- Holding Times
- Sample Integrity
- Field QC (Trip blanks, Equip Blanks)
- Technical Holding Times
- Batch Requirements
- Method Blanks
- Analytical Results

**ADAPT
LEVEL II
QA**

- Lab Control Samples
- Matrix Spikes
- Surrogates
- Detection Limits
- Technical Consistency
- Internal Standards
- Calibration (Initial, Continuing)
- Specific Instrument/methods QC
- Compound Identification
- Compound Quantitation
- Etc.

**PAPER
LEVEL III QA**

Validation

- Data Validation is a low cost action that has the ability to save the data users millions of dollars due to misuse of incorrect laboratory data
- May help in identifying any False positives that may appear as true when are nothing more than laboratory contaminants or False negatives that can be created from interferences

Validation

- Data Validation help protect the data generators and users from lawsuits from private parties, the public or “watchdog” organizations
- The presentation of data in a lawsuit that has not been validated puts in peril not only the data in question, but also puts in peril the reputation of the data generator and data users, and the validity of any decisions made based on that data

Validation Questions

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DBHYDRO Browser

The screenshot shows a Microsoft Internet Explorer browser window displaying the DBHYDRO (Environmental Data) website. The address bar shows the URL: <http://my.sfwmd.gov/portal/page/portal/xweb%20environmental%20monitoring/dbhydro%20application>. The browser title is "DBHYDRO (Environmental Data) - Microsoft Internet Explorer provided by SFWMD".

The website header includes the South Florida Water Management District logo and navigation links: Home, About Us, Managing & Protecting Water, Protecting & Restoring Ecosystems, News, and Library & Multimedia. Below the header, there are dropdown menus for "Residents & Visitors", "Businesses", "Scientists & Engineers", "Educators & Students", "Topics", and "Regions". A search bar is also present.

The main content area is titled "DBHYDRO (Environmental Data)". On the left, there is a "RELATED LINKS" section with the following items:

- DBHYDRO Browser Menu
- User's Guide [PDF]
- Glossary
- Contact Us
- Request Other Data (Submit only for data not accessible via DBHYDRO)

The main text describes the database: "DBHYDRO is the South Florida Water Management District's corporate environmental database which stores hydrologic, meteorologic, hydrogeologic and water quality data. This database is the source of historical and up-to-date environmental data for the 16-county region covered by the District."

It further explains: "The DBHYDRO Browser allows you to search DBHYDRO, using one or more criteria, and to generate a summary of the data from the available period of record. You can then select data sets of interest and have the time series data dynamically displayed on your screen in tables or graphs. You can also download data to your computer, for later use."

A note at the bottom of the main text reads: "Please use the link to identify the monitoring location site name(s) for the data that you are seeking: Environmental Monitoring Location Maps".

The footer of the website includes social media icons, a navigation menu, and contact information: "SFWMD Headquarters: 3301 Gun Club Road, West Palm Beach, Florida 33406 561-686-8800 | 1-800-432-2045 (Florida Only)".

- Access DBHYDRO at SFWMD.GOV

DBHYDRO Overview

DBHYDRO is the South Florida Water Management District's hydrometeorologic, water quality, and hydrogeologic data retrieval system.

- Surface Water Data
 - Meteorological Data
 - Groundwater Data
 - Water Quality and Other Sample Data
 - Hydrogeologic Data
-
- Examples of 'Data Types' available via DBHYDRO

DBHYDRO Overview

The screenshot shows the South Florida Water Management District website. The browser title is "SFWMD Home Page - Microsoft Internet Explorer provided by SFWMD". The address bar shows the URL: <http://my.sfwmd.gov/portal/page/portal/sfwmdmain/home%20page>. The website header includes the SFWMD logo and navigation links: Home, About Us, Managing & Protecting Water, Protecting & Restoring Ecosystems, News, and Library & Multimedia. Below the header, there are dropdown menus for Residents & Visitors, Businesses, Scientists & Engineers (highlighted with a red circle), Educators & Students, Topics, and Regions. A search bar is also present. The main content area features a large banner for "ePermitting Improves Business Efficiency" with a "LEARN MORE" button. Below the banner, there are four featured articles: "Water Shortage Watch", "Rainy Season Readiness", "Permitting Services", and "Restoring the Everglades". At the bottom, there is a section for "In the News" with a "WATER" header and several news items.

LAKE OKEECHOBEE LEVEL
Aug 31, 2011
10.64 ft.

LAKE ISTOKPOGA LEVEL
Aug 31, 2011
38.51 ft.

Water Shortage Watch

Rainy Season Readiness

Permitting Services

Restoring the Everglades

In the News

WATER

<http://my.sfwmd.gov/portal/page/portal/sfwmdmain/scientists%20%20engineers>

- Access DBHYDRO at WWW.SFWMD.GOV

DBHYDRO Overview

DBHYDRO (Environmental Data) - Microsoft Internet Explorer provided by SFWMD

http://my.sfwmd.gov/portal/page/portal/xweb%20environmental%20monitoring/dbhydro%20application

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DBHYDRO (Environmental Data)

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SOUTH FLORIDA
WATER MANAGEMENT DISTRICT

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Residents & Visitors Businesses Scientists & Engineers Educators & Students Topics Regions Search go

Home >> Scientists and Engineers >> Environmental Monitoring >> **DBHYDRO (ENVIRONMENTAL DATA)**

DBHYDRO (Environmental Data)

RELATED LINKS

- DBHYDRO Browser Menu**
- User's Guide [PDF]
- Glossary
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The DBHYDRO Browser allows you to search DBHYDRO, using one or more criteria, and to generate a summary of the data from the available period of record. You can then select data sets of interest and have the time series data dynamically displayed on your screen in tables or graphs. You can also download data to your computer, for later use.

Please use the link to identify the monitoring location site name(s) for the data that you are seeking:
Environmental Monitoring Location Maps

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SFWMD Headquarters: 3301 Gun Club Road, West Palm Beach, Florida 33406
561-686-8800 | 1-800-432-2045 (Florida Only)

- Select 'DBHYDRO Browser Menu'

DBHYDRO Overview

The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The address bar shows the URL "http://www.sfwmd.gov/dbhydroplsq/show_dbkey_info.main_menu". The browser's menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The page content features the "SOUTH FLORIDA WATER MANAGEMENT DISTRICT" logo and the "sfwmd.gov" domain. A search bar and navigation links ("Search | Site Map | Help | Who to Contact | Español") are present. The main heading is "DBHYDRO Browser Menu". Below it is a form with three checkboxes: "Surface Water Data", "Meteorological Data", and "Ground Water Data", followed by a "Submit" button. A red oval highlights the link "Water Quality and Other Sample Data". Other links include "Hydrogeologic Data", "Access By Station Name", "Access By Site Name", "Access By Hydrologic Basin", "Meta Data", and "Miscellaneous Items and Reports". At the bottom, there is a footer with links: "Main Menu | Home | SFWMD Home | User's Guide | What's New | FAQ | Comments? | Login". The browser's status bar shows "Internet" and "100%".

Select 'Water Quality and Other Sample Data'

DBHYDRO Overview

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

http://my.sfwmd.gov/dbhydroplsql/water_quality_interface.main_page

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sfwmd.gov

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Water Quality and Other Sample Data Access

Select Access Method:

Sample Data

- [Project](#)
- [Station](#)
- [X-Y](#)
- [Latitude-Longitude](#)
- [Basin](#)
- [County](#)
- [Advanced Query](#)

Time Series Data

- [Advanced Query](#)

Lab Data

- [OLECAS](#)

[Use Existing Parameter File](#)

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Select 'Project'

DBHYDRO Overview

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

http://my.sfwmd.gov/dbhydroplsq/water_quality_interface.station_select_1?v_access_by=project

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Select Desired Project(s)

Enter Project Code:

(Use the "%" sign as a wild card.)
-- OR --
Select From List

CODE	DESCRIPTION
8SQM	- 8-1/2 Square Mile Area
A	- Strazulla Grove
ACMEB	- Divert Wellington Discharge to C-51 and STA-1E instead of ARMLNWR
ACRA	- Allapattah Complex Restoration Area
ACS	- Agricultural Citrus Study
ARCK	- Arbuckle Creek Watershed
ARK	- Arbuckle Creek Watershed
ARS	- TAYLOR CREEK-NUBBIN SLOUGH MONITORING ARS-KISSIMMEE
ASR	- STANDARD PACKER TEST SAMPLING AT PBF-13
ASTE	- Autosample Tubing Experiment
ASVS	- Auto Sampler Validation Study
AWOL	- LAKE OKEECHOBEE AQUATIC WEED REMOVAL DEMONSTRATION PROJECT
B	- BACKPUMPING LOWER EAST COAST
BBWQ	- Biscayne Bay Water Quality
BCE	- EVERGLADES AG. AREA WATER QUALITY MANAGEMENT (AG. RUNOFF)
BCSB	- Big Cypress Southern Boundary
BCWQ	- Big Cypress Water Quality Monitoring
BGMC	- Belle Glade Marina Chlorides
BIRP	- OPTIMIZATION OF BMPS FOR BEEF CATTLE RANCHING, I.O. BASIN
BIRW	- Buck Island Ranch Wetlands
BISC	- Biscayne Bay Monitoring
BN	- C-111 MONITORING
BOY	- BOYNTON BEACH MALL SURFACE WATER MONITORING
BRM	- BRIGHTON RESERVATION MONITORING: NUTRIENT SAMPLING
C	- CLOSED SYSTEM

(hold ctrl and then click for multiple)

Select Project 'BBWQ'

DBHYDRO Overview

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

http://my.sfwmd.gov/dbhydroplsqj/water_quality_interface.station_select_2?v_project=&v_project=BBWQ&v_js_flag=Y&v

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DBHYDRO Browser

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Select Desired Station(s)

Search Criteria

Project Selected: BBWQ

If you do not select any Stations, then all Stations, in the list, will be used.

AC01	- NE 26 Ave/NE 125 St. Mouth of New Arch Creek
AC02	- NE 26 Ave/Broad Cswy Arch Creek west of Bayshore Drive bridge
AC03	- NE 16 Ave/NE 135 St. South side of foot bridge at Enchanted Forest Park
AR01	- Mouth of Aerojet Canal (C-111)
AR03	- US 1/SW 518 St. East side of US 1 on Aerojet Canal (C-111)
BB02	- Mouth of Oleta River at Intracoastal Waterway
BB04	- Intracoastal waterway at red marker 4
BB05A	- Biscayne Bay adjacent to Munisport landfill
BB06	- Intracoastal Waterway at red marker 8
BB09	- Biscayne Bay in ICWW at red marker 18
BB11	- Biscayne Bay 10 meters south of Pelican Harbor Park Pier
BB14	- Biscayne Bay N. Julia Tuttle Cswy 2 km E. of Green marker 31
BB15	- Biscayne Bay in ICWW at green marker 39
BB16	- Biscayne Bay in ICWW at green marker 45
BB17	- Biscayne Bay Midway between Julia Tuttle Causeway and San Marino Island
BB19	- Biscayne Bay in ICWW 30 meters south of Dodge Island Bridge
BB22	- Biscayne Bay midway between Miami Marine Stadium and NOAA slip at Dodge Island
BB24	- Biscayne Bay at Miami main ship channel at red marker 16
BB26	- Biscayne Bay 30 meters west of ICWW, N. side of Rickenbacker Causeway Bridge
BB27	- Biscayne Bay in ICWW at green marker 71
BB28	- Biscayne Bay at Bear Cut west of center bridge span
BB31	- Biscayne Bay midway between Key Biscayne and Coral Gables Waterway
BB32	- Biscayne Bay west of Cape Florida at red channel marker
BB34	- Biscayne Bay 2000 meters east of mouth of Snapper Creek (C-2)
BB35	- Biscayne Bay west of Safety Valve Shoals Biscayne Bay at green marker

List of Stations for Project BBWQ

DBHYDRO Overview

The screenshot shows a web browser window titled "DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD". The address bar shows the URL "http://my.sfwmd.gov/dbhydroplsql/water_quality_interface.station_select_3". The page header includes the SFWMD logo and navigation links: "Search | Site Map | Help | Who to Contact | Español".

The main content area is titled "Select Additional Search Criteria". It features a "Search Criteria" box with the following information:

- Project Selected: BBWQ
- Station Selected: BB11

Below this, a text instruction reads: "Select desired items from the list(s) below. If you do not select any individual items, in a list, then all items, in that list, will be used."

There are three selection lists:

- Test Name:** A list of chemical and biological parameters with checkboxes and counts. Visible items include AMMONIA-N (mg/L) - 20, CARBON, TOTAL ORGANIC (mg/L) - 100, CHLOROPHYLL-A (mg/M3) - 61, DEPTH, TOTAL (SDU) - 99, DISSOLVED OXYGEN (mg/L) - 8, KJELDAHL NITROGEN, TOTAL (mg/L) - 21, NITRATE+NITRITE-N (mg/L) - 18, PH, FIELD (UNITS) - 10, PHOSPHATE, ORTHO AS P (mg/L) - 23, and PHOSPHATE, TOTAL AS P (mg/L) - 25.
- Collection Method:** A list of sampling methods with checkboxes. Visible items include ACF (Auto-Sampler Composite Flow Proportional), ACT (Auto-Sampler Composite Time Proportional), ADF (Auto-Sampler Discrete Flow Proportional), ADT (Auto-Sampler Discrete Time Proportional), BLK (Bulk), CXC (Composite Cross Section Core), CXI (Composite Cross Section Integration), CDI (Composite Depth Integrated), CIC (Composite Integrated Core), and CSI (Composite Site Integration - Sediment/Soil Only).
- Matrix:** A list of water matrix types with checkboxes. Visible items include GW (Grnd H2O), PERI (Periphyton), BPL (Plant), PW (Pore Water), RA (Rain), SA (Saline), and SP (Sediment).

Select Additional Search Criteria

DBHYDRO Overview

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

http://my.sfwmd.gov/dbhydroplsql/water_quality_data.sample_matched

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Report Selection Page

Your query criteria returned 56 results from 3 trips.

Report Type Full Report Flagged Results

Output Type

- HTML: Display directly to browser.
- File: Fixed column width.
- File: Comma delimited.
- Adobe (.pdf) Format.

Run Mode

- Online
- Batch Mode [When to use it](#)

Submit

Save Parameter File

[NELAC Laboratory Certification](#)

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Select the 'Full Report Flagged Results'

DBHYDRO Overview

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Project Code	Sample ID	Station ID	Collection_Date	First Trigger Date	Depth	T Depth	Discharge	Up/Down
BBWQ	BISC101-0110	BISC101	12-JAN-2010 11:30		0.50			0
BBWQ	BISC101-0210T	BISC101	09-FEB-2010 11:35		0.50			0
BBWQ	BISC101-0410	BISC101	13-APR-2010 11:35		0.50			0
BBWQ	BISC101-0410	BISC101	13-APR-2010 11:35		0.50			0
BBWQ	BISC101-0510	BISC101	12-MAY-2010 11:30		0.50			0
BBWQ	BISC101-0510	BISC101	12-MAY-2010 11:30		0.50			0
BBWQ	BISC101-0510	BISC101	12-MAY-2010 11:30		0.50			0
BBWQ	BISC101-0610B	BISC101	15-JUN-2010 10:59		1.47			0
BBWQ	BISC101-0610	BISC101	15-JUN-2010 11:00		0.50			0
BBWQ	BISC101-0610	BISC101	15-JUN-2010 11:00		0.50			0
BBWQ	BISC101-0610S	BISC101	15-JUN-2010 11:01		0.10			0
BBWQ	BISC101-0710	BISC101	20-JUL-2010 12:15		0.50			0
BBWQ	BISC101-0810	BISC101	10-AUG-2010 12:00		0.50			0
BBWQ	BISC101-0810	BISC101	10-AUG-2010 12:00		0.50			0
BBWQ	BISC101-0810	BISC101	10-AUG-2010 12:00		0.50			0
BBWQ	BISC101-1010	BISC101	12-OCT-2010 11:20		0.50			0
BBWQ	BISC101-1210	BISC101	16-DEC-2010 10:55		0.50			0

Query returned 17 records.

Disclaimer: "The presence of a value in the flag column does not necessarily preclude the use of the data for specific business purposes."

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Full Report Flagged Results

DBHYDRO Overview

Test Name	Flag	Value	MDL	NDEC	Sigfig	Value	Units	Source
PHOSPHATE, ORTHO AS P	yes	.003	.002	3	0.003	mg/L	DERM	
CARBON, TOTAL ORGANIC	yes	5.78	3.02	1	5.78	mg/L	SPEC	
CARBON, TOTAL ORGANIC	yes	14.9	3.02	1	14.90	mg/L	SPEC	
PHOSPHATE, ORTHO AS P	yes	-.002	.002	3	-0.002	mg/L	DERM	
CARBON, TOTAL ORGANIC	yes	8.91	3.02	1	8.91	mg/L	SPEC	
AMMONIA-N	yes	.11	.01	2	0.11	mg/L	DERM	
KJELDAHL NITROGEN, TOTAL	yes	.29	.08	1	0.29	mg/L	DERM	
DISSOLVED OXYGEN	yes	5.51		1	5.5	mg/L	DERM	
DISSOLVED OXYGEN	yes	5.29		1	5.3	mg/L	DERM	
CARBON, TOTAL ORGANIC	yes	6.51	5.78	1	6.51	mg/L	SPEC	
DISSOLVED OXYGEN	yes	5.2		1	5.2	mg/L	DERM	
KJELDAHL NITROGEN, TOTAL	yes	-.08	.08	1	-0.08	mg/L	DERM	
PHOSPHATE, TOTAL AS P	yes	.003	.002	3	0.003	mg/L	DERM	
TURBIDITY	yes	.6	.1	1	0.6	NTU	DERM	
CARBON, TOTAL ORGANIC	yes	8.45	5.78	1	8.45	mg/L	SPEC	
CARBON, TOTAL ORGANIC	yes	9.17	5.78	1	9.17	mg/L	SPEC	
KJELDAHL NITROGEN, TOTAL	yes	-.08	.08	1	-0.08	mg/L	DERM	

Test Name and Flag Column

DBHYDRO Overview

DBHYDRO Browser - Microsoft Internet Explorer provided by SFWMD

http://my.sfwmd.gov/dbhydroplsqli/water_quality_data.report_process

DBHYDRO Browser

Value	MDL	NDEC	Sigfig	Value	Units	Source	Owner	Storet	Code	Remark	Code
.003	.002	3	0	0.003	mg/L	DERM	WMD	671		I, J	
5.79	3.02	1	5	5.79	mg/L	SPEC	WMD	600		J, I	
14.9	3.02	1	14	14.90	mg/L	SPEC	WMD	680		J	
-.002	.002	3	-0	-0.002	mg/L	DERM	WMD	671		U, J	
-8.91	3.02	1	8	8.91	mg/L	SPEC	WMD	680		J, I	
.11	.01	2	0	0.11	mg/L	DERM	WMD	608		J	
.29	.08	1	0	0.29	mg/L	DERM	WMD	625		I, J	
5.51		1	5	5.5	mg/L	DERM	WMD	299		J	
5.29		1	5	5.3	mg/L	DERM	WMD	299		J	
6.51	5.78	1	6	6.51	mg/L	SPEC	WMD	680		I, J	
5.2		1	5	5.2	mg/L	DERM	WMD	299		J	
-.08	.08	1	-0	-0.08	mg/L	DERM	WMD	625		U, J	
.003	.002	3	0	0.003	mg/L	DERM	WMD	665		I, V	
.6	.1	1	0	0.6	NTU	DERM	WMD	82079		V	
8.45	5.78	1	8	8.45	mg/L	SPEC	WMD	680		J, I	
9.17	5.78	1	9	9.17	mg/L	SPEC	WMD	680		J, I	
-.08	.08	1	-0	-0.08	mg/L	DERM	WMD	625		U, J	

Remark Code Column showing Qualifiers

DBHYDRO Overview



Contact Information

Sharon Peterkin @ speterk@sfwmd.gov

DBHYDRO Technical Support – 561-686-8800 ext. 4594
1-800-432-2045 ext. 4594 (toll-free Florida only)

Laboratory Audit Objectives

- Help assure the generation of data of known and acceptable quality – method requirements / QA-QC
- Provide opportunities for quality improvement – lab procedures
- Ensure adherence to work orders and contracts – correct methods, required detection limits
- QA feedback mechanism to both the laboratory and to the QAOT – BETTER DATA!!

Audit Structure

- Preparation:
 - Review key documents
 - Identify sample set for on-site review
- On-site Audit: Discuss procedures with analysts
- Audit Report: Key findings/recommendations to improve data quality

Benefits of Audits

- Determination of appropriateness and effectiveness of analytical procedures and consistency with method requirements
- Evaluation of laboratory detection limits versus project-specified limits – awareness and impact of any changes
- Confirmation of on-going demonstrations of capability and certifications – identification of lapses or gaps
- Assurance that corrective actions will be implemented
- Sharing of non-proprietary innovations by one laboratory with other laboratories – quality and efficiency improvements can benefit all involved with CERP

We're Ready to Assist

USACE

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