

# AWQMS



**goldsystems**  
INNOVATION THROUGH TECHNOLOGY

The Ambient Water Quality Monitoring Systems (AWQMS) is a replacement for the distributed EPA STORET database, which was de-supported in Fall of 2009. AWQMS is a web-based water quality data management system that includes support for batch import and export, data management, reporting, graphing, and data submission via an exchange network node client.

## Data Input

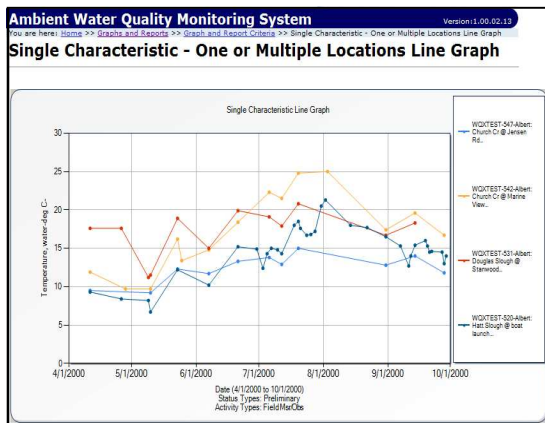
### Import and Manual Data entry

- AWQMS has a robust data import module that imports data in flat file formats (.csv or .txt)
- AWQMS validates data imports to meet WQX v2.0 standards
- AWQMS has data entry and edit pages for easy data management
- QA/QC can be performed against the secure local database before submitting to EPA
- Mass data updates can be performed with AWQMS to enable easy data correction

Column	Pick	Data Element	Default Value	Format	Translation Count
Remove 1		Project ID			0 Add/Edit
Remove 2		Monitoring Location ID			0 Add/Edit
Remove 3		Activity ID			0 Add/Edit
Remove 4		Activity Type	{none}		1 Add/Edit
Remove 5		Activity Media Name	{none}		0 Add/Edit
Remove 6		Activity Start Date		MM/DD/YYYY	0 Add/Edit
Remove 7		Activity Start Time		HH:MM	0 Add/Edit

## Data Analysis

### Data Analysis with Graphing



- AWQMS includes web-based graphing and statistical analysis tools. Graphs currently supported:
  - Box and Whisker
  - Bi-Variate Scatter plot
  - Line Graph
    - (single and multi-characteristic)
  - Bar Chart
    - (single and multi-characteristic)
- Built in statistical and exceedance reports
- AWQMS supports exporting the data from the graphs into Microsoft® Excel

## Data Output

### Data Output in WQX XML format

- AWQMS provides easy submission of water quality data to EPA via the built in node client
- AWQMS supports complete, partial, and incremental data submissions
- AWQMS generates an XML file that conforms to the WQX Schema
- The XML file can be submitted via an existing node to flow WQX data to EPA

# AWQMS



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AWQMS is a STORET to WQX transition solution for many organizations including state, tribal, and volunteer water quality monitoring programs. AWQMS can be hosted in a secure offsite data center, or deployed locally and integrated with existing enterprise systems. AWQMS was developed for multiple programs using a community software development model and is distributed at no cost.

## Implementation

### Implementation of AWQMS

#### OPTION 1 – Hosted (See Pricing below)

Have Gold Systems host AWQMS in a secure offsite data center

- No cost for the core AWQMS software
- Monthly hosting costs cover all hardware, database licenses, the .net graphing tool, and database administration costs
- 24/7 access to data, graphs, and reports with an internet connection and browser
- Updates and maintenance performed seamlessly on remote hosted servers

#### OPTION 2– Local Deployment

Deploy AWQMS code base on local servers and maintain the software and servers locally

- No cost for the core AWQMS software
- AWQMS supports both SQL server and Oracle databases
- Need to purchase hardware and licenses if not already in place
- Need to purchase license for graphing tool

## Training

### Training

- Gold Systems offers web-based training tutorials using [www.LearningZen.com](http://www.LearningZen.com)
- Gold Systems has worked with federal agencies, multiple states and over 60 tribes on water quality data management
- Contact Gold Systems to provide onsite trainings and remote support and assistance



## Pricing

### Pricing (see “Option 1 – Hosted” above)

- The hosting prices below will be offered in 1 year increments
- Hosting fees cover all license, hardware and database administration fees
- As more orgs sign up in a group economies of scale reduce the overall cost per organization
- Hosting can provide a secure, economical, and low maintenance option

Annual Hosting Organization Prices						
Organizations	Price per month	Yearly price	Set up Fee*	Total	Yearly Price per Org w/ out set up	Monthly Price per Org w/ out set up
1	\$300.00	\$3,600.00	\$600.00	\$4,200.00	\$3,600.00	\$300.00
Additional Org	\$100.00	\$1,200.00	\$200.00	\$1,400.00	\$1,200.00	\$100.00
≥ 20	Custom Pricing					

\*The set up fee is a one time fee needed to create the organization, users accounts and preferences.