



# AquaChem 10.0

*Water Quality Data Analysis and Report software*

**AquaChem** is a software application specifically designed for anyone working on hydrogeologic, geochemical, or environmental projects requiring the management, analysis, and reporting of water quality data.

AquaChem’s analysis tools cover a wide range of functions and calculations including unit transformations, charge balances, and statistics. These powerful analytical capabilities are complemented by an extensive selection of commonly used geochemical plots to represent the chemical characteristics of water quality data and a console for R scripts that offers powerful data science tools.

## Highlights



### Map Viewer Module

– Plot project data and select charts directly on a map



### Plot Collections –

Improvements to plot collection layouts



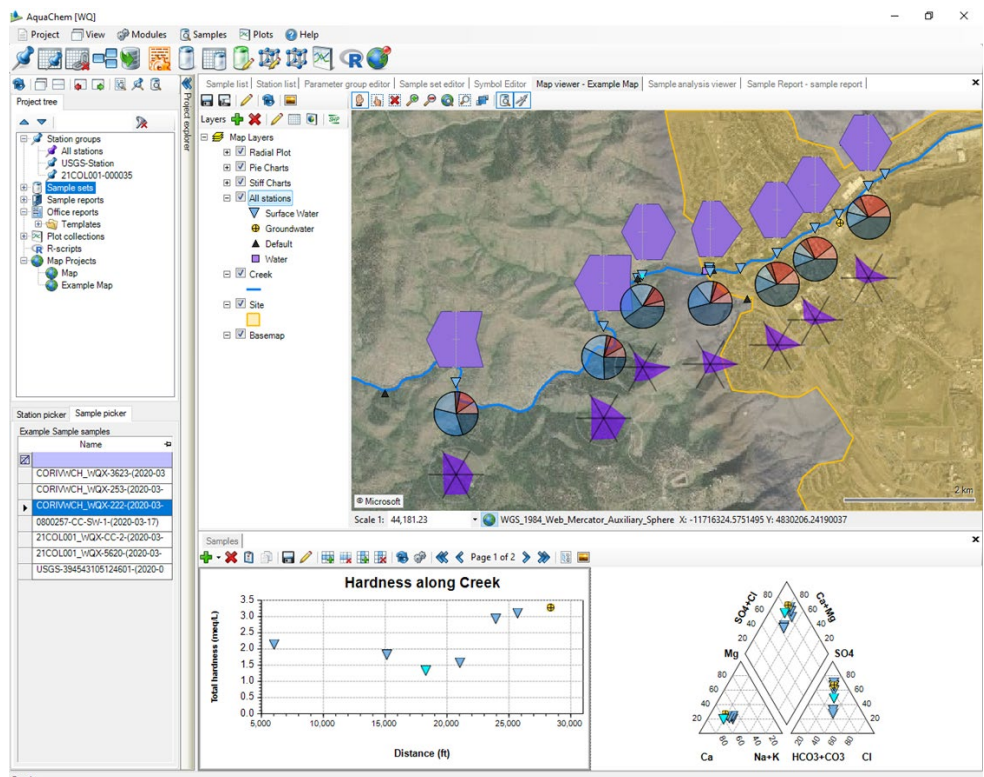
### Sample Analysis Viewer –

quickly view results and station/sample information for select data



### Usability and Other

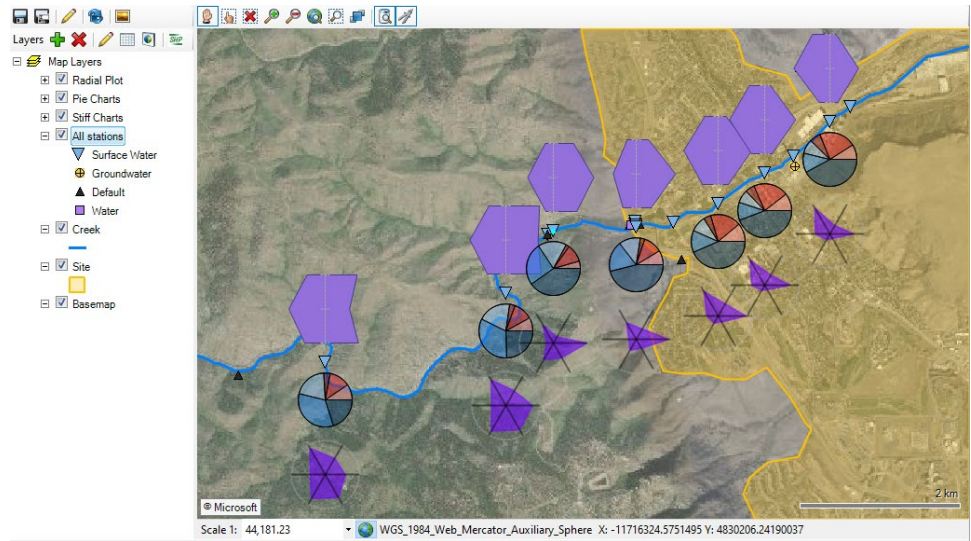
**Enhancements –** Over 20 client-requested improvements and enhancements





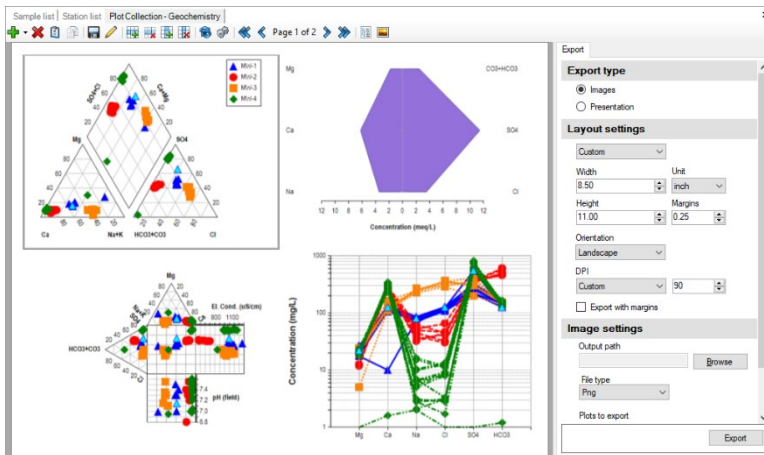
## Map Viewer Module

**AquaChem 10.0** now includes a Map Viewer that allows you to map stations and related sample results. Generate thematic maps based on these data including, locations by category, proportionally sized symbols, color-graded symbols, pie charts, and Stiff diagrams. Add imported basemaps (georeferenced TIFs, BMPs, and JPGs) and other spatial data (shapefiles) to relate the data to real-world locations and help you infer valuable insights from your data.

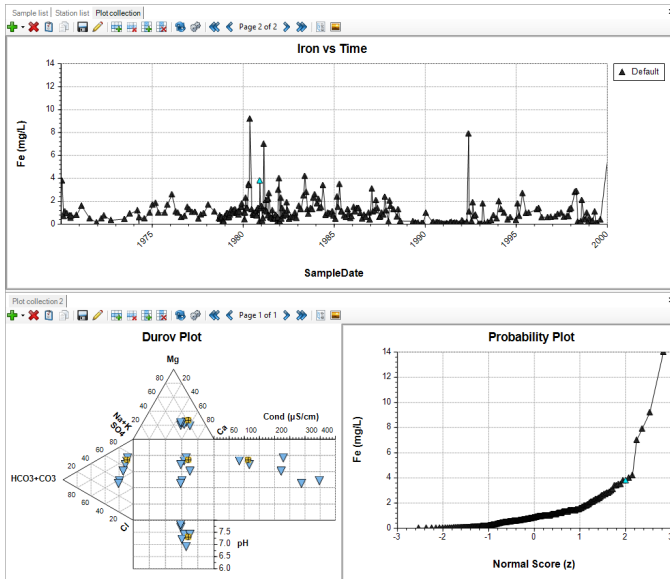


## Plot Collections

Plot collections have been enhanced to include:



- A What-You-See-Is-What-You'll-Get layout view for exports so that you can easily configure your plots for export to images or report templates. Choose from standard page sizes or set your own custom size
- Plots can use the currently selected sample(s) as a data source to make plot collections even more interactive



- Rectangular plots (e.g. Box and Whisker, Detection Summary, Histogram, Probability Plot, Time series, etc.) can be stretched to fill the plot collection cell. The right and bottom plot panels in a Durov Plot can be scaled
- Axis labels on rectangular plots can be rotated
- Custom plot lines can be dynamically linked to a water quality standard and you can set x cutoff values

**Other Enhancements**

- **Sample Analysis Viewer:** quickly view a read-only list of results and related metadata data for specified stations or samples with standard data handling tools available in AquaChem

Sample analysis viewer

Current sample: nwisco.01.98400445

Station			Sample		Sample Analysis				
StationName	HUC8	RiverMile	Name	MediaType	Parameter	Unit	Value	QCFlag	Comment
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Zn_diss		840		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Temp	°C	3		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Barometric press		608		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Stream flow, insta		1.6		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Cond	µS/cm	297		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Acidity	mg/L	1E-05		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Dissolved Oxygen	mg/L	103		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	pH_field		7.8		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	CO2	mg/L	1.4		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Nitrogen-total	mg/L	4		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Nitrogen-Total Kj	mg/L	0.5		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Nitrogen-Inorgani	mg/L	0.36		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Phosphorus	mg/L	0.18		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Meas_Hardness	mg/L	102.0816018		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Ca	mg/L	28		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Mg	mg/L	7.7		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	Na	mg/L	15		
USGS-06719505	10190004	21027	nwisco.01.98400	Surface Water	SAR	mg/L	0.65		

Rows: 35 Selected: 0

- **Macro-Enabled Reports:** Print-to-Office Templates support macro-enabled documents (.docm, .xlsm, .pptm) you can automate building more powerful and advanced reports
- Create parameter groups based on a field in the sample results table (for example Sample Method)
- Allow specification of a custom date field when importing data

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