



Leguaan[®] Factsheet

Your Water Monitoring Data has incredible value, but only if you can turn it into management information...

So, you diligently collect water monitoring data from a number of sampling locations on a regular basis, and you would love to go through it all and draw graphs from the results you received from the laboratory, because you know it contains valuable management information, but ... you simply do not have the time. OR, you have done it, a few times, but it took you HOURS to draw a simple time series graph, for ONE sampling location. And now, your water monitoring data (which cost you a lot of money to collect) is gathering dust in a spreadsheet (or sheets) somewhere on a computer or server, but nobody ever uses it...

Introducing LEGUAAN[®]: A Water Monitoring Data Visualisation, Management and Reporting Solution for South African conditions

CBSS is currently developing software, called [LEGUAAN[®]](#), that will provide you with a service designed to address this problem: doing the hard work for you, your water monitoring data is converted into interactive graphs and reports that can be understood by management and other stakeholders, including government agencies, which means your data becomes a valuable business- and water resource management tool.

The LEGUAAN[®] service is developed based on the requirements of the South African government (including catchment management agencies and local authorities), and will help you to take control of your water monitoring data (both quantity and quality). It includes conducting quality control and statistical evaluations on your water monitoring data, and your verified data is converted into scientifically sound graphs designed to meet the specific needs of your organisation.

Your graphs and reports will be available online in a secure interactive html-format, allowing you to present and share your results with others. Take a look at our website to see what we mean with [interactive online graphs](#) and a [responsive dashboard](#) that allow you to visualise your data.

These reports and graphs can be set up to compare your data to the limit values in your water use licence, or any other site-specific limit value specified by a government agency (we can also assist you with the development of site-specific limit values in accordance with the new DWS policy). Your historic data for existing locations can also be uploaded to LEGUAAN[®], and your graphs will update instantaneously when your latest lab reports are added.

We want your input!

As we are still in the development phase, [we want your input](#): Do you have a particular graph or report table format you like? Want a unique graph or map illustrating specific chemical properties at your site? Need a report on the quality of your data? Looking for a graph that gives 95th percentile compliance, or overall site compliance to specific government agency or site-specific limit values, or compliance with specified monitoring frequencies? Just tell us what you want, and we can make it happen for you.



Varanus niloticus

South African names for the water monitor include leguaan, likkewaan, uxamu, legua, and nguxam.

A group of water monitors is known as an "agency".



Leguaan® Factsheet

Packages

The LEGUAAN® service is offered as a monthly subscription package,¹ and you have the flexibility to choose a package that will meet your specific needs:

BRONZE PACKAGE

- ★ One time series graph per variable per year, for different categorised types of locations, for the current year
- ★ One Maucha/Mauchino salt-balance diagram per sample taken²

SILVERPACKAGE

- ★ One time series graph per variable per quarter, for different categorised types of locations, for the current year, indicating limit values if applicable
- ★ One Maucha/Mauchino salt-balance diagram per sample taken¹
- ★ Dashboard for each sampling location, with sparkline graphs for each variable, statistical evaluation, and mini-box-and-whisker plots

GOLD PACKAGE

- ★ One time series graph per variable per month, for different categorised types of locations, for the current year, indicating limit values if applicable
- ★ One Maucha/Mauchino salt-balance diagram per sample taken¹
- ★ Dashboard for each sampling location, with sparkline graphs for each variable, statistical evaluation, and mini-box-and-whisker plots
- ★ Annual Large Box-and-whisker plots for each variable per type of location
- ★ Frequency compliance report
- ★ Variable compliance report



- ★ Bronze Plus – add limit values to graphs
- ★ Gold Plus Package clients can also reduce their costs by reducing the frequency of their time-series graphs
- ★ Gold, Silver and Bronze Plus
 - ✓ add your historic data, for as many years as you want
 - ✓ add additional graphs, for example time-series graphs that include your historic data, or stacked time-series graphs (need minimum of 4 years' historic data), or average annual Maucha/Mauchino salt-balance diagram for each sampling location¹
 - ✓ add an Annual Water Monitoring Report (Quality and Quantity, if required) that you can submit to the authorities

Costing to use the LEGUAAN-service is based on the number of monitoring locations, and the number of samples taken in a year. The more monitoring locations you have, and the more regularly you take samples, the more you save, due to the lower price per sample per package. Contact CBSS without delay (carin@cbss.co.za) to talk about your needs, and to help you find the package that is right for you!

¹ Consultants who are in need of a once-off data visualisation of a dataset do not need to subscribe to the monthly service, but can contact us for a quotation.

² Provided that correct variables (TDS/EC, Ca, Mg, Na, K, Cl, SO₄, Total Alkalinity, (and NO₃ for Mauchino) are analysed for each sample