

EDAMS Network Asset Management Quality Monitoring Module

Adds value to the Utility's Quality monitoring program effectively dealing with the acquisition, management, monitoring and reporting of water quality data



EDAMS Water Quality Monitoring System brings you all the tools you need for fast and effective management of water quality data. Its easy to use graphical interface and strong visual tools combined with its support for water quality monitoring business processes make it a uniquely powerful, yet intuitive, water quality management system. The system shares a common architecture based on industry-specific methodologies developed by EDAMS Technology over the last

twenty years, but offer feature-sets reflecting their target fields. Tightly integrated with the EDAMS Network Asset Management Systems EDAMS- Quality Monitoring system provides extensive growth paths.

Overview of Features

Water quality data are expensive to collect, requiring a substantial investment of time and money, so they must be made as useable and useful and retrievable as possible. EDAMS Water Quality Monitoring includes:

- extensive means of analysing data;
 - the flexibility to accommodate additional information, e.g. analytes, sites, etc.. .
- procedures for the recording of results of analysis or field observations;
 - procedures for systematic screening and validation of data;
 - secure storage of information and intuitive retrieval system;

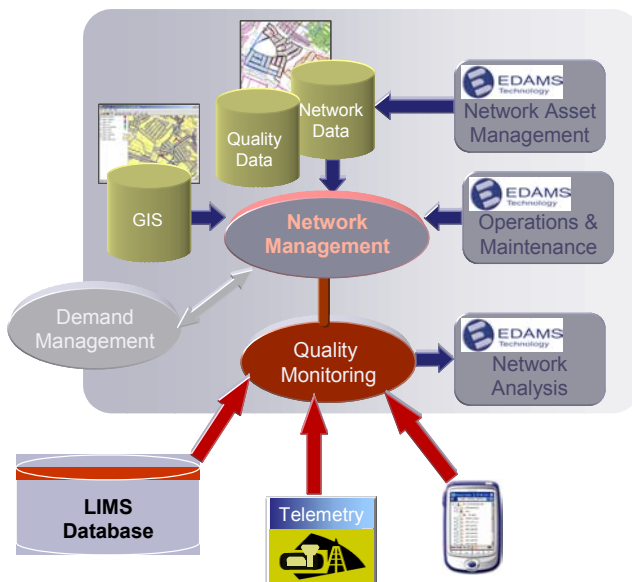
Libraries

EDAMS Water Quality Monitoring module contains libraries with national regulations governing the Quality of Drinking Water. The system incorporates as defaults three sets of Standards, namely the World Health Organization Guidelines (WHO), the European Community (EC) Directives and the South African Standards.

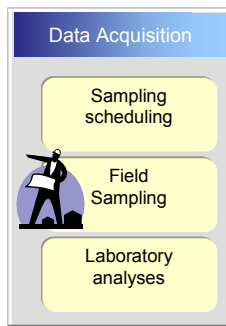
Based on the default standards the system evaluates the sample quality parameters and assigns status to the samples. User definable parameter status, status qualifiers and setting options allow the user to control the evaluation of the samples.

Data Acquisition

Sample Scheduling



Redefining Utility Management



A sampling schedule is the combination of routine and non-routine monitoring activities. Routine monitoring programs are defined per sampling point and per Standard

Analysis. EDAMS Water Quality Monitoring engine calculates the required testing for each parameter in accordance to the standards and sampling point status.

Field Sampling

To ensure sample integrity requirements have been established for sample collection, container, and preservation EDAMS Water Quality Monitoring provides library information on the sample containers, sample volumes, preservation, and maximum holding times per quality parameter.

Laboratory Analyses

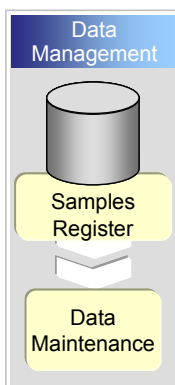
When samples are delivered to the laboratory for analysis, it is essential that a traceable pathway covering all activities from receipt of samples to disposal is provided. EDAMS Water Quality Monitoring system can be customized to interface with Laboratory systems (LIMS) or more often to provide or accept all the sample analysis results.

Quality Assurance and Quality Control

EDAMS Water Quality Monitoring

incorporates all the methodologies of quality assurance and quality control (QA/QC) for field sampling and subsequent laboratory and data analysis. The program is intended to control sampling errors at levels acceptable to the data user. As part of QA/QC planning, certain data quality objectives need to be defined. These relate to the precision, accuracy, representation, completeness, and comparability of the data.

Data Management



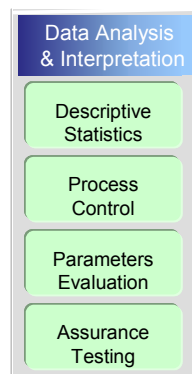
EDAMS Network Asset Management has built-in topology for all its elements. Intelligence is built in for every member in terms of connectivity, hierarchy, positioning and belonging, facilitating easy data evaluation and validation. Sampling points are linked to network elements for thematic mapping and management reporting. For each sampling point we can specify the standard analysis that have to be performed, the frequency of sampling and the laboratory that will perform the analysis and produce the results.

Sample data are arranged in various information groups as follows:

- o General sample details
- o Site Conditions during sampling
- o Sample Collection & Preservation
- o Feedback session / Compliance Determination (filled in by Lab Report)
- o Links to external documents
- o Sampling quality parameter values

Data Analysis & Interpretation

Data analysis is an integral component of the water quality management



process. Statistical analysis of water quality data may be very broadly classified in (a) Descriptive statistics and (b) Inferential statistics. The basic statistical techniques covered by EDAMS Quality Monitoring system

techniques include:

- o Extensive Descriptive Statistics
- o Analysis of data distributions and testing assumptions about data sets.
- o Comparison to Water quality standards and indices
- o Comparisons & associations of data sets.
- o Time series analysis (Identifying trends and seasonality).
- o Process Control Analysis

Turnkey Solutions

System implementation uses a structured methodology and includes predefined libraries and full operator and management training.

Support options range from call centres to onsite support contracts, and can even include an outsourcing service where we supply, implement, operate and maintain the system for a monthly fee.

Our consulting services, based on over twenty years of industry experience, ranges from data capturing and field validation to network optimisation and the reduction and control of non-revenue water.

Contact us for more information on our products, services or Partnership Program

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