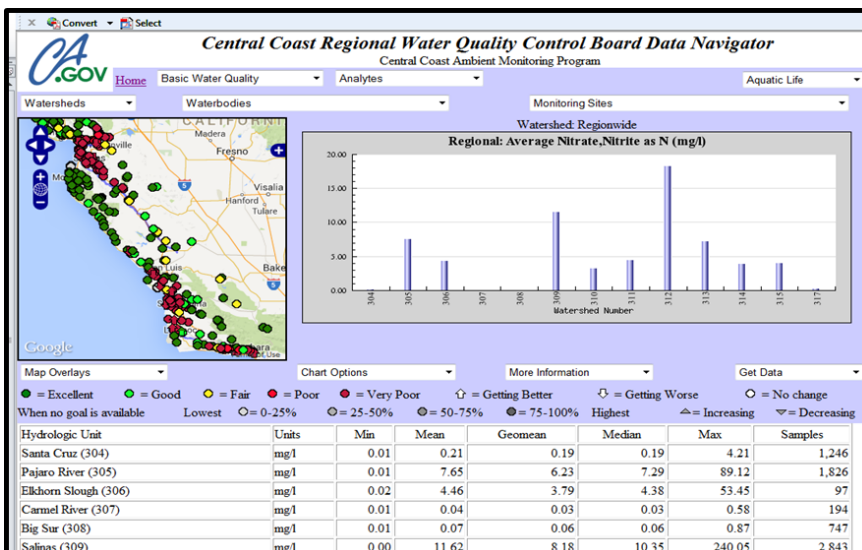


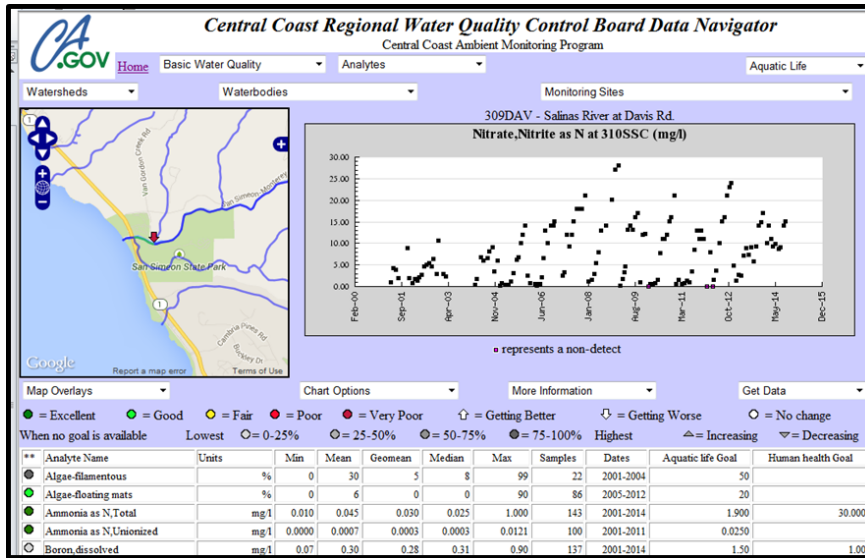
## CCAMP Data Navigator Public Release

### What is it?

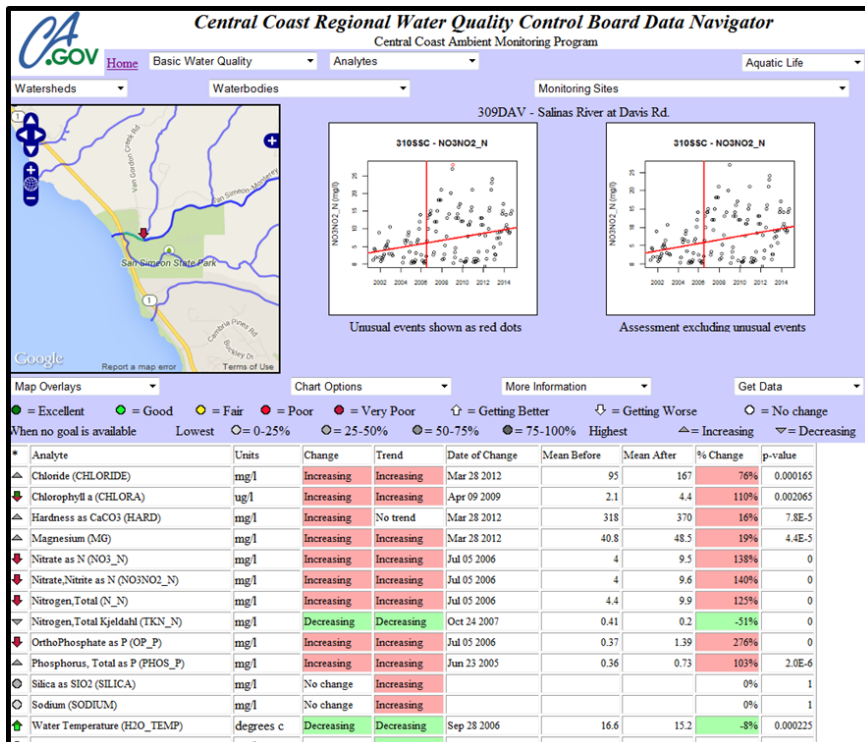
The Central Coast Ambient Monitoring Program (CCAMP) Data Navigator is a web-based tool on the [CCAMP website](#) for viewing data interpretations in map, table, and graph formats. The web site provides access to many different types of data, including conventional water quality, metals, organic chemicals, toxicity, and bioassessment data. It includes data for both water and sediment quality. Displays include bar charts, box plots, time series, and other data views. Recent improvements include direct data downloads, color-scored displays of a broad variety of parameters, and change analysis. Flow and instantaneous loads are also provided. The scoring approach is based on the Canadian Water Quality Index, and uses analyte thresholds (typically from regulatory sources) to calculate magnitude and exceedance components. The web site has been enhanced with substantially more documentation, additional statistical tools, access to thresholds and threshold references. It provides an excellent way to screen for problems, learn about the characteristics of the data, and then download the data for further analysis.



The Data Navigator shows views of site scores at the map level and average concentrations (in this case of nitrate-nitrate as N) at the level of the Hydrologic Unit.



The data user can drill down to the level of the individual site time series (in this case nitrate concentrations at San Simeon Creek, San Luis Obispo County). Downward pointing arrows on the site map imply worsening conditions.



Change analysis includes both linear trend analysis (the sloping red line) and Bayesian Change Point Analysis (the vertical red line). The San Simeon Creek site shows both, meaning there is a significant linear increasing trend, and there is a high probability that data collected before July 2006 is significantly lower in nitrate concentration from data collected after that date. At this site, a spray field treatment system for a waste water treatment plant was modified to become a percolation pond around the time the change occurred and is a likely contributor to this change.

The target audiences for this report are those interested in specific SWAMP projects, as well as water quality monitoring in general. These may include elected officials (e.g. the State Legislature), government agencies, consultants, researchers, NGOs, and informed members of the general public.

### **Why is it important?**

The CCAMP Data Navigator is a unique and helpful tool that allows users to view data in a color-coded map environment. It provides quick access to the analytes present that may cause problems and shows where those problem areas are located. It also helps identify those areas that are in good condition and need protection. The web tool is updated with data from several online databases, including the SWAMP/CEDEN system. This means that the website can be readily updated when new information is available.

### **How will this information be used?**

The website is used extensively by the public, staff, decision-makers, researchers, and others who have questions about water quality in the Central Coast Region. The State Board's Office of Information Management and Assessment is exploring how it might be adapted for statewide use with the California Environmental Data Exchange Network.

### ***For more information:***

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