



## TECHNOLOGY SERVICES

# Open Water Accounting™ Software Platform

Manage Water Budgets, Usage,  
and Trading

### Leverage Near Real Time Data to Budget and Manage Water Resources

As climate change and population growth are driving many communities into a new era of water resource management needs, it is more important than ever that water managers and property owners have access to the best possible data to balance supply and demand. ESA is deeply involved in the challenge to chart a sustainable future for water resources in our western states. The Open Water Accounting platform is the result of a partnership with ESA, Environmental Defense Fund, California Water Data Consortium, and Olsson, working together to create a complete solution for the Rosedale-Rio Bravo Water Storage District in California's Central Valley.

The resulting open-source platform enables water managers and landowners to track their annual water budgets and current water usage in near real time. The trading portion of the platform allows landowners to buy and sell water via a web-based marketplace.



## Benefits



1. Develop more accurate water budgets
2. Simplify water trading
3. Efficiently manage water usage

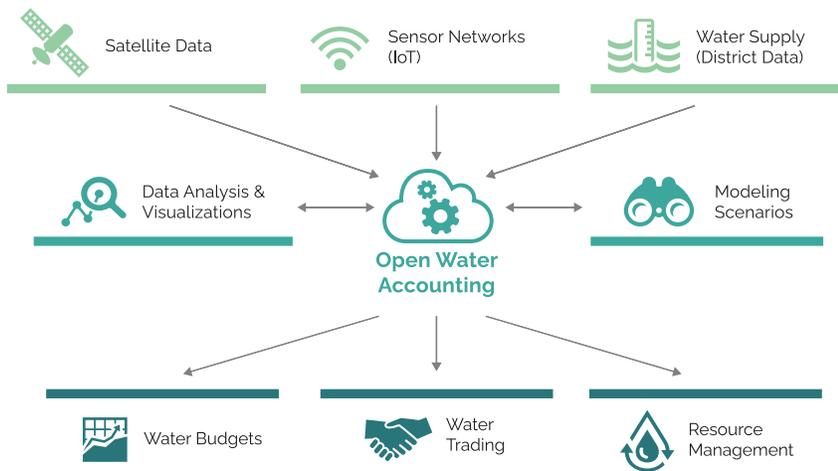
*"We developed this accounting and trading platform because we want to provide landowners and growers with as many tools as possible to manage their water more sustainably and balance their water budget."*

— Eric Averett | General Manager, Rosedale-Rio Bravo Water Storage District

# Data Driven Decisions

## A Platform for Water Resource Management

Open Water Accounting accepts water supply data from a variety of sources including satellite, flow meters, and sensor networks. The platform combines water supply and use data to help set annual water budgets for landowners. The platform also features a water manager dashboard to track and account for water across a water district, which then informs billing. Optional modules for modeling and trading enhance platform functionality.



## Key Platform Functionality

### MEASURE MONITOR MANAGE TRADE

- Track water supply data
- Track demand and account for usage in near real-time
- Capture usage data to inform district billing
- Create, view, and manage water budgets
- Landowners can check their water budget and outstanding balance online, similar to how they check their bank account online
- Model the hydrological impacts of various usage, trade, and recharge scenarios with the optional Groundwater Evaluation Tool (GET) from Olsson
- Post offers to buy and sell water with the optional Trading Module
- Facilitate the transfer of allocations at the request of landowners
- Because the technology used to develop the platform is open source, other water agencies can use it to build their own cost-efficient, locally applicable groundwater accounting and trading platforms

## Key Clients



# Open-Source Software Benefits

Many agencies see an advantage to open source solutions because they avoid vendor lock-in and are available for anyone to use, modify, and enhance as they see fit. Some software service providers position their solutions as using open-source frameworks, but their software is still proprietary.

TOPIC OF COMPARISON	OPEN WATER ACCOUNTING PLATFORM	PROPRIETARY SOFTWARE
<b>Customization</b>	Additional improvements and refinements can be implemented to meet specific needs	When available you must adapt to vendor's conventions and are often subject to vendor's product roadmap
<b>Third-Party Integration</b>	External tools can be readily integrated using standards-based web services	Functionality varies; often you must conform to proprietary product's requirements
<b>Privacy</b>	FISMA/NIST 800-53 information security standards certified	Typically handled; may not be based on standards
<b>Data Export</b>	Export data to Excel or GIS file; alternatively, external systems can request data on-demand via web services	Functionality varies; you may not be able to get data out in a readily usable format
<b>Ongoing Costs</b>	You control the software and can choose a different vendor or hosting arrangement at any time	You do not control the software; cost to switch to a different platform or solution may be high

## Plug into a Community of Like-Minded Organizations

Because Open Water Accounting is open source, upgrades and new features added by one organization benefit all organizations.

## Learn More

### See Case Study of Open Water Accounting Deployment

- Rosedale-Rio Bravo Water Storage District: [esassoc.com/projects/open-water-accounting-platform](http://esassoc.com/projects/open-water-accounting-platform)

### Visit Open Water Accounting Deployment Online

- Rosedale-Rio Bravo Water Storage District: [waterbudget.rrbwsd.com](http://waterbudget.rrbwsd.com)

### Schedule an App Demo

Send a request to: [techservicesmarketing@esassoc.com](mailto:techservicesmarketing@esassoc.com)

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