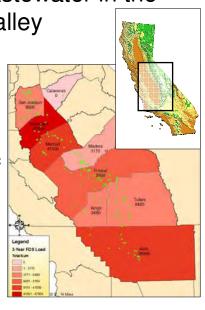
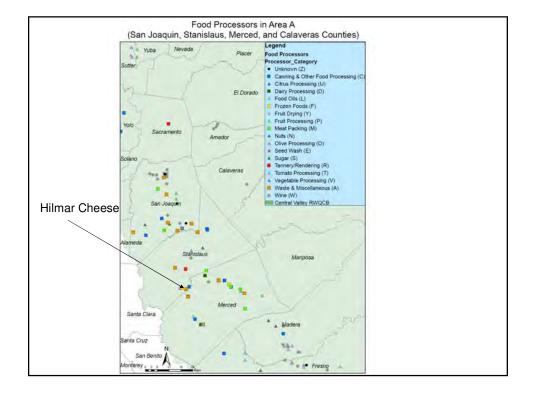


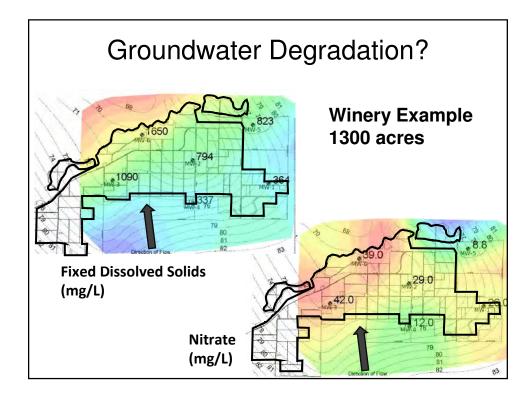
### Food Processing Wastewater in the Central Valley

- · Over 600 facilities
- >\$62 billion in revenue
- Water use: 80 million m<sup>3</sup> yr<sup>-1</sup>
- High in salinity (FDS), organic carbon, and nitrogen
- Typical disposal method: land application for irrigation
- Discharged to alluvial fan and floodplain deposits

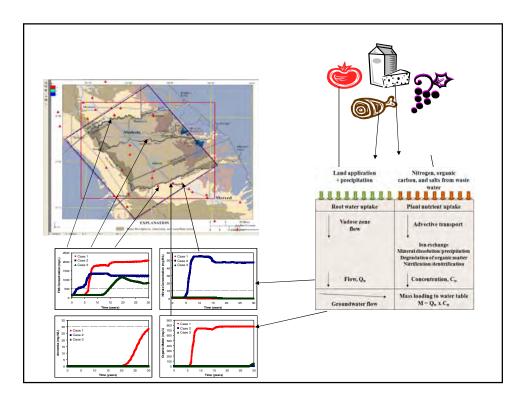


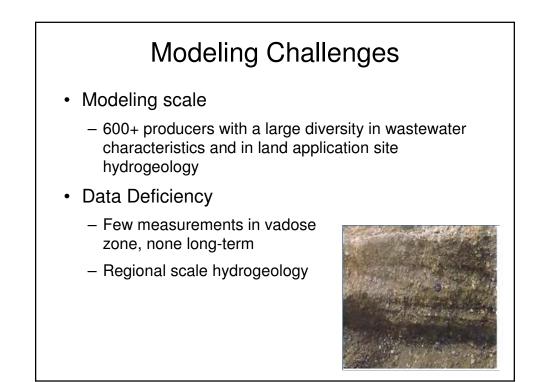


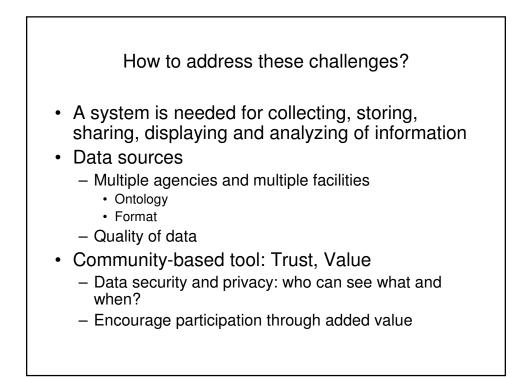
An Environmental Threat?				
Metric	Municipal Waste	Tomato Canner		
BOD (mg-O <sub>2</sub> L <sup>-1</sup> )	450	820		
FDS(mg L <sup>-1</sup> )	720	1680		
рН	6.7	5.4		
Nitrogen (mg-N L <sup>-1</sup> )	25	51		
Flow Rate (gal d <sup>-1</sup> )	2.6 x 10 <sup>7</sup>	1.5 x 10 <sup>6</sup>		
Pathogens present?	Virtually certain	Very unlikely		
Sources: food, dis	sinfectants, proces	sing chemicals		

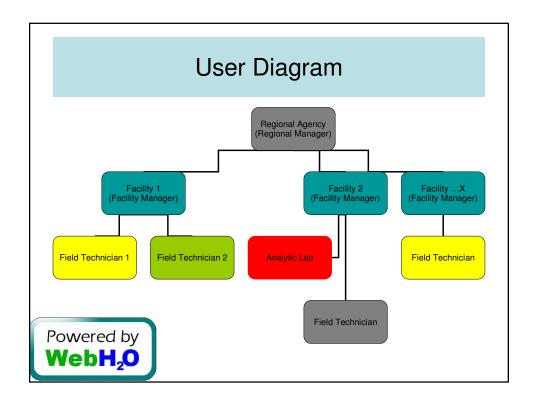


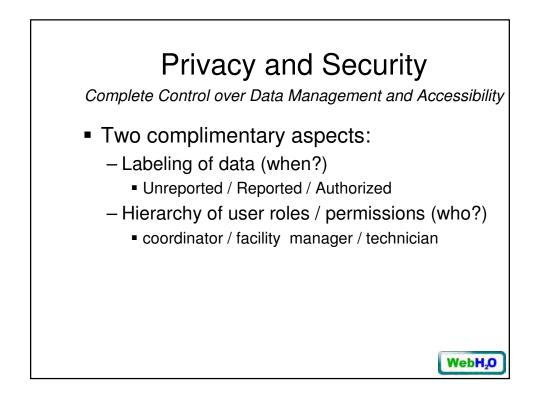
HilmaR	
	Volume (kgal)
Industry Average Daily Flow	68665
Industry Yearly Flow	25062854
Hilmar Daily Flow	1525
Hilmar Yearly Flow	556714
Land discharge area:	: 600 acres



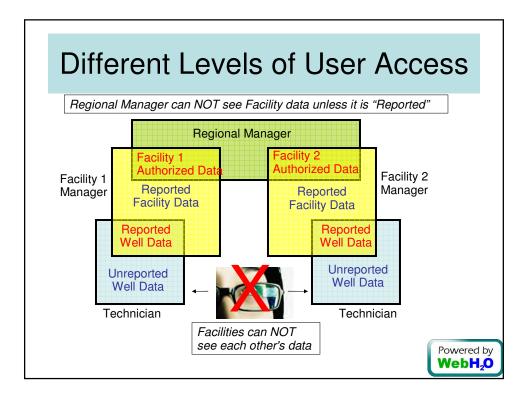


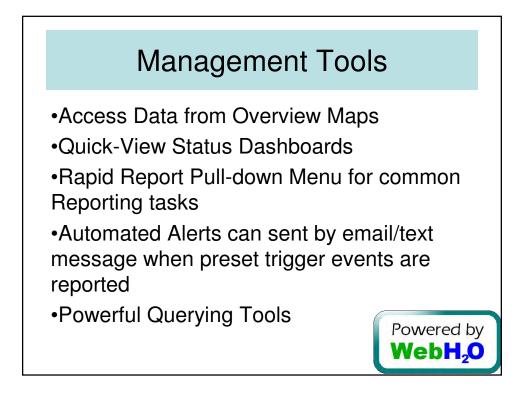


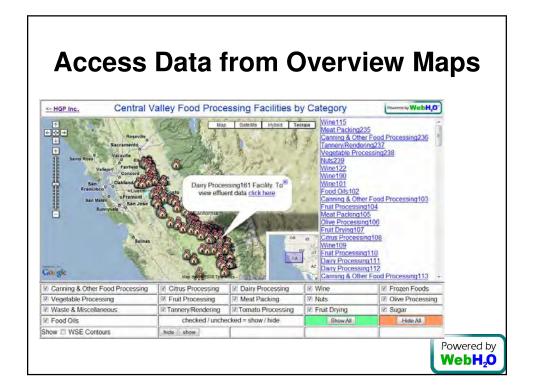






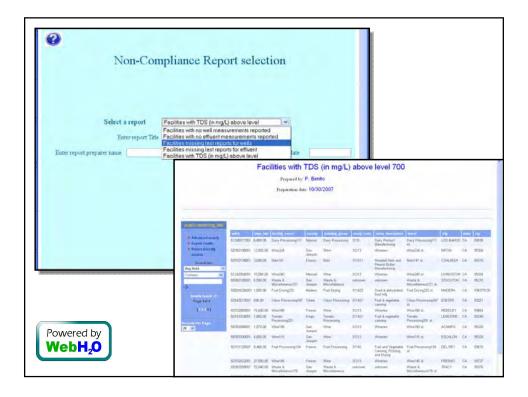




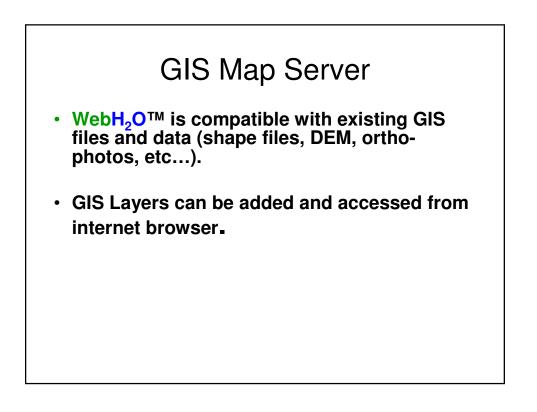


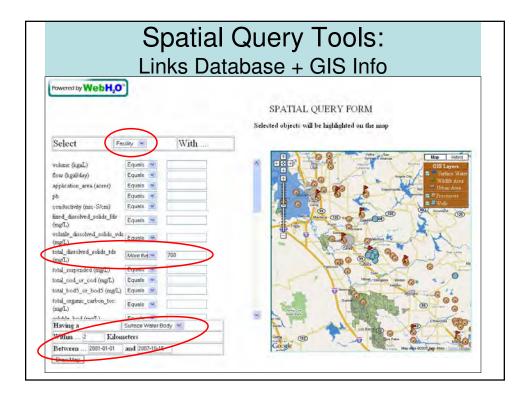
### Quick-View Dashboards show Status of all monitored locations





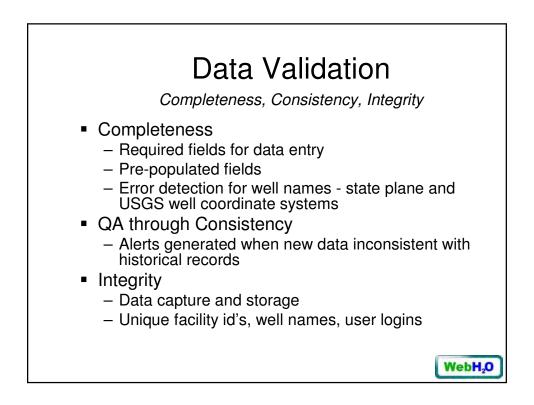
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MonthReported		More than	۷	5	
YearReported		Equals	۷	2004	
Volume		Contains	*		
Flow		Contains	۷		
Application_Area		Contains	۷		
рН		Contains	۷		
Conductivity		Equal or more than	*	10000	
Fixed_Dissolved_Solids_FDS		Equal or more than	۷	9000	
Volatile_Dissolved_Solids_VDS		Contains	۷		
Total_Dissolved_Solids_TDS		Contains	۷		



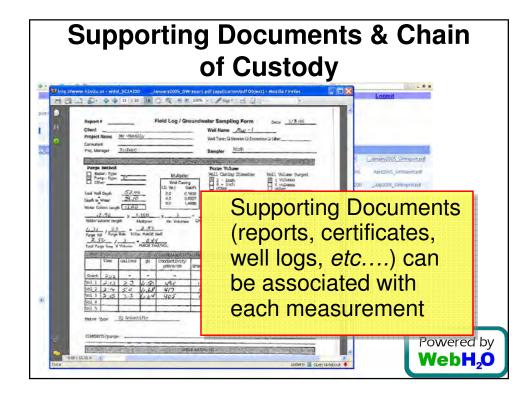


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mw_id	MVV-1					
datereported	10/30/2007 0:55:08					
dept_to_groundwater_ft	120	Warning:> 20% from last (=78.14) Warning: > 20% difference from min or max (min=77.33,max=84.4)				
ec_umhos_cm	).2154	Critical Error ec_umhos_cm cannot contain non numeric characters				
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no3_as_n_mg_l						
toc_mg_l	o2sd	Critical Error. toc_mg_l cannot contain non numeric characters				
nh3_mg_l						
fe_mg_l	120	last measurement is null Warning: > 20% difference from min or max (min=0.17,max=3.8)				
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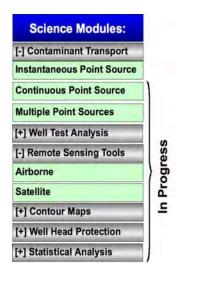


# **Science Modules**

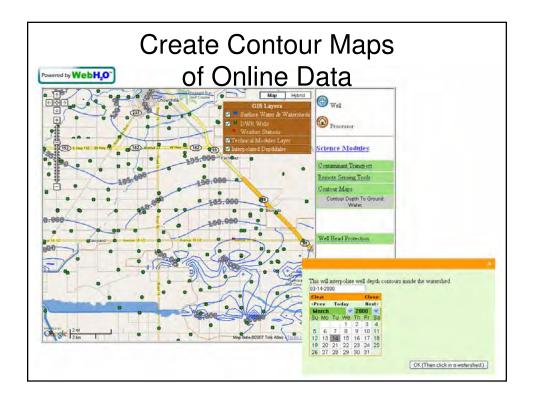
Can be mounted directly on top of map interface to collected data and GIS Layers
Can be used for real-time data analysis such as risk assessment, contouring, vector plots, fate & transport models, etc...

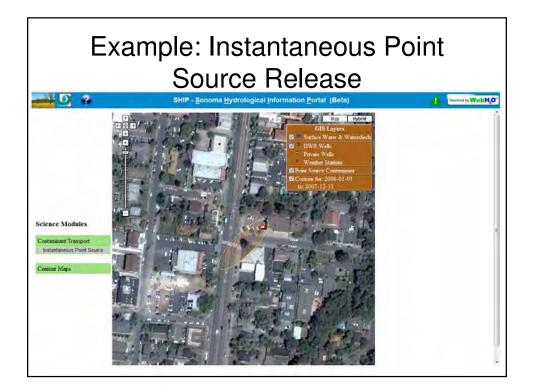
# WebH<sub>2</sub>O<sup>™</sup> Science Modules

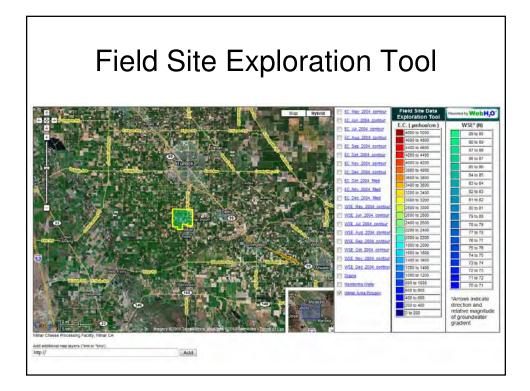
- WebH<sub>2</sub>O<sup>™</sup> combines Engineering and Science Expertise with enterprise quality IT.
- Integrated Science Modules can be applied to your data to make preliminary assessments of field conditions and risks.

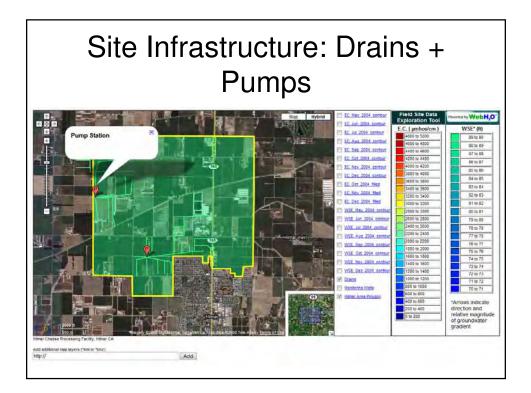


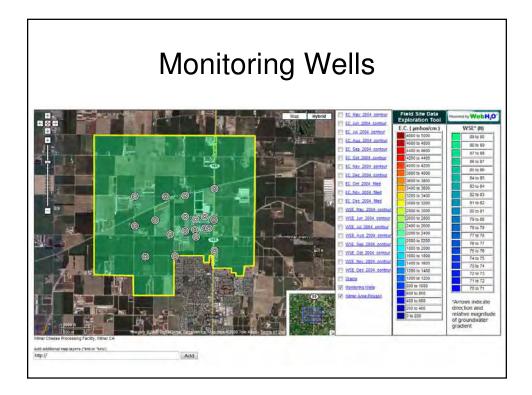
Powered by WebH<sub>2</sub>O

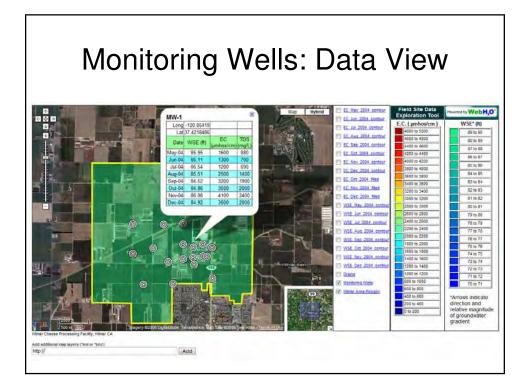


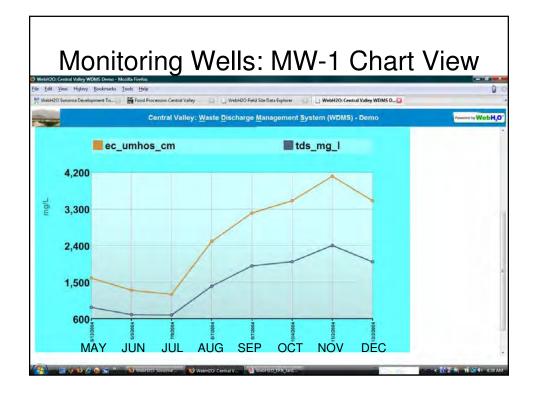


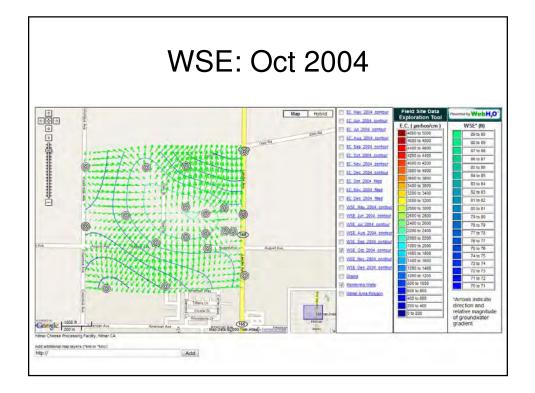


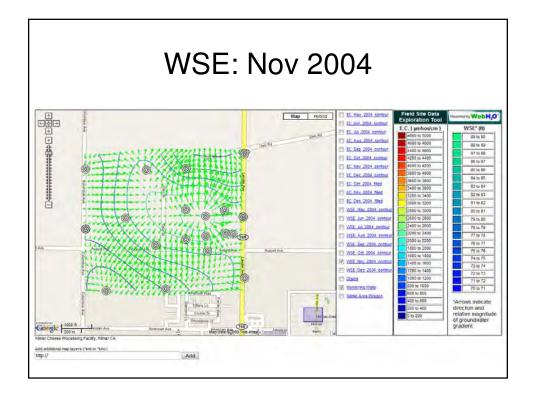


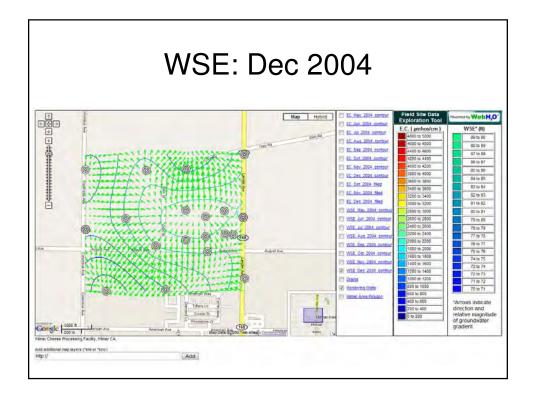


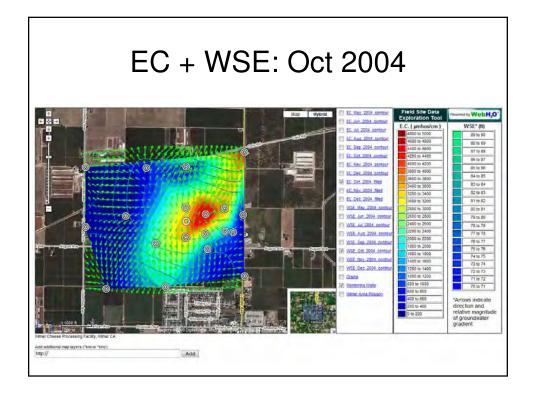


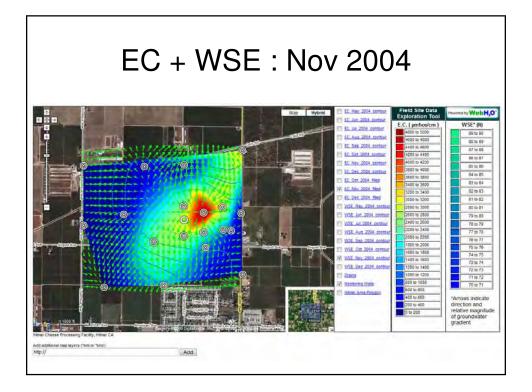


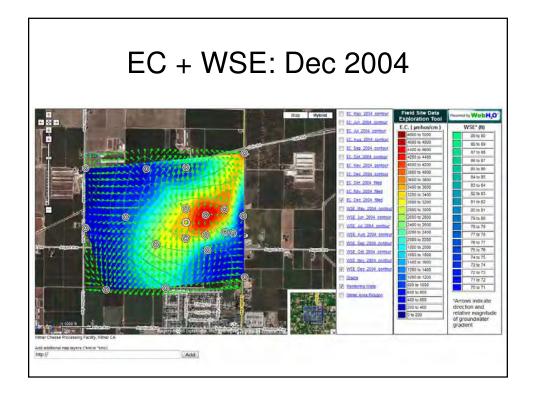


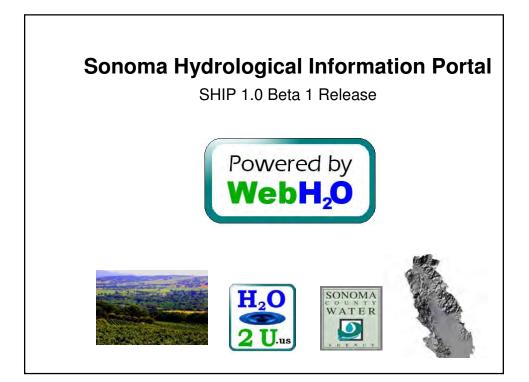


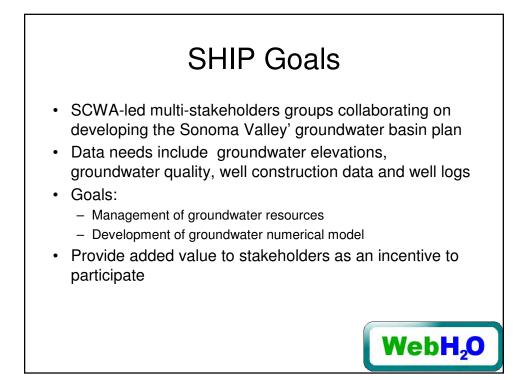


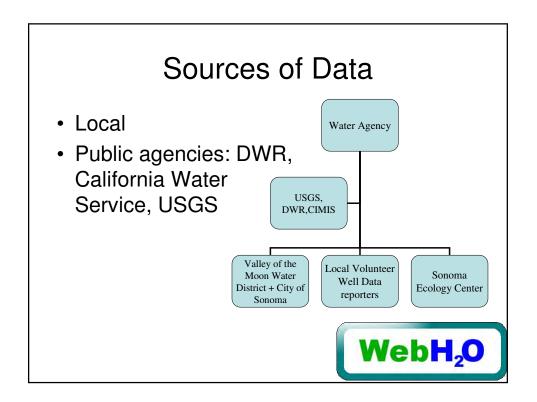


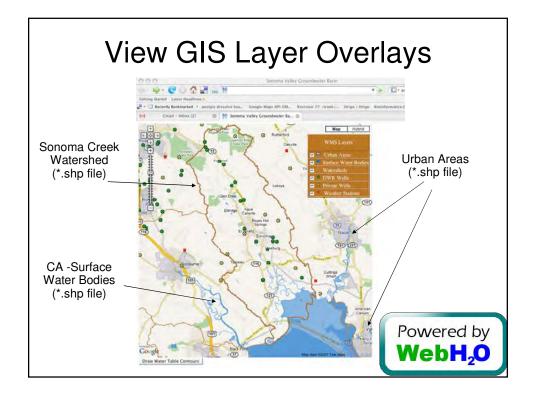


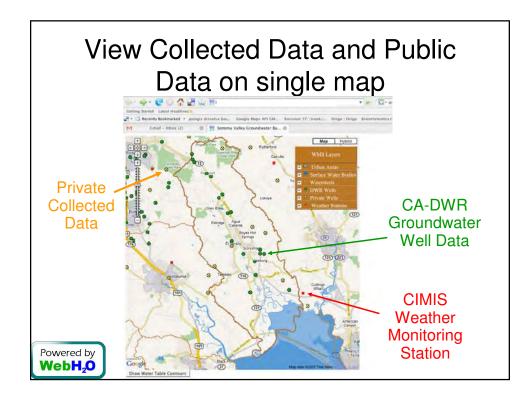


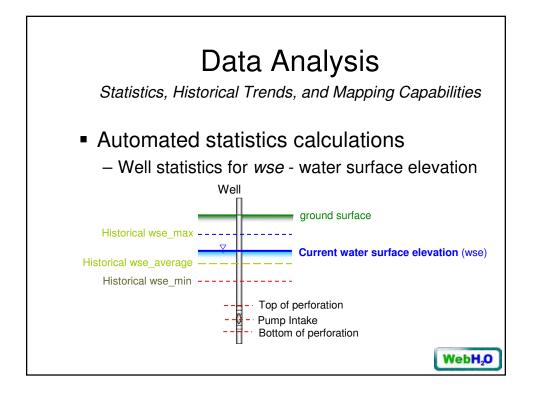


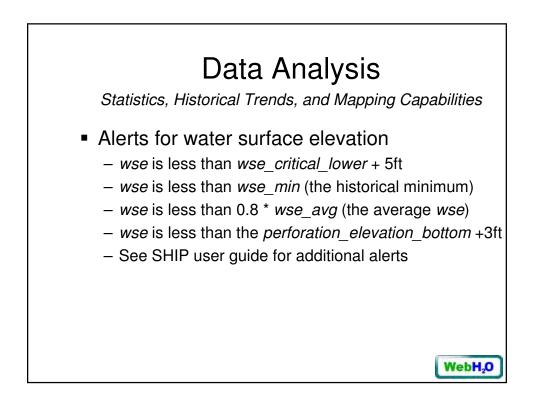


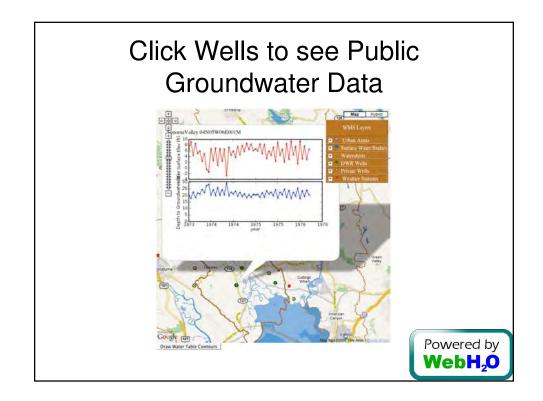


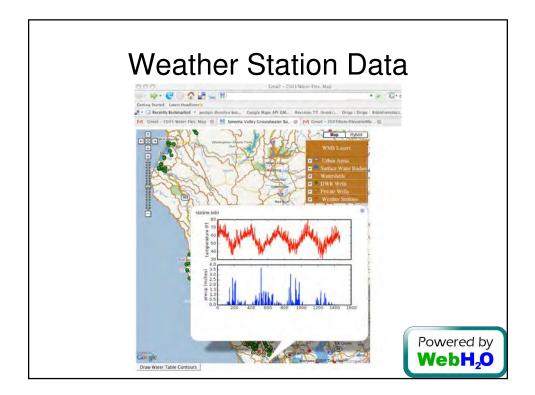


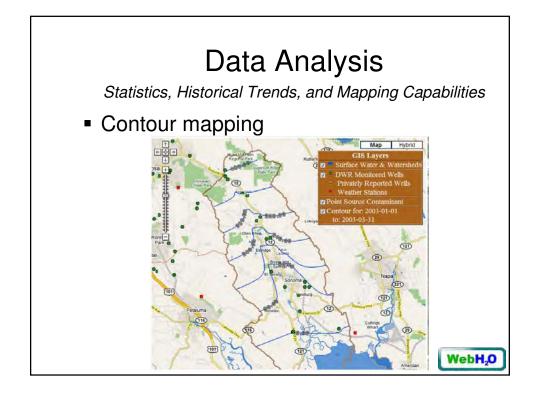


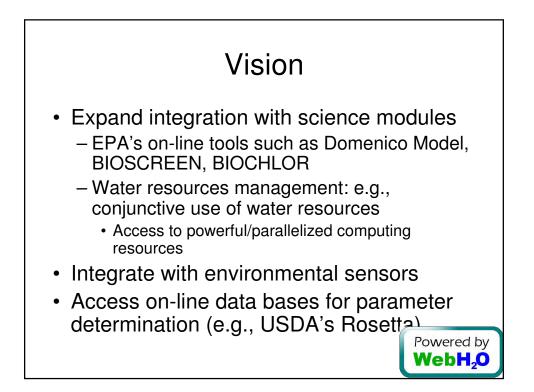


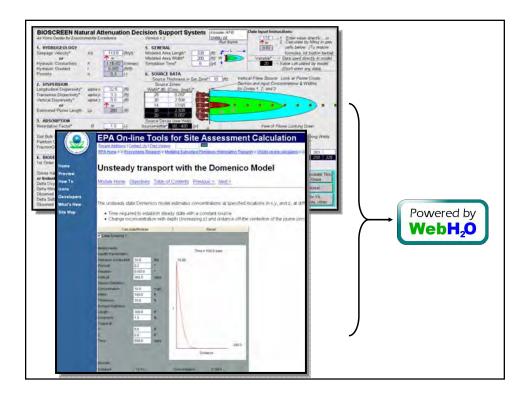












# Built Using Open-Source Software Components PostgreSQL (database) PostGIS (spatial data and queries) MapServer (render and serve images over the web) Python (programming language for web, science, ...) Scipy/Numpy/Matplotlib (provide Matlab+++ type functionality) PHP (scripting language for web development) Excellent support for user administration Apache (fast, popular web server) Making science affordable Get a broad community of developers to share and contribute