

# CASGEM

(California Statewide Groundwater Elevation Monitoring)

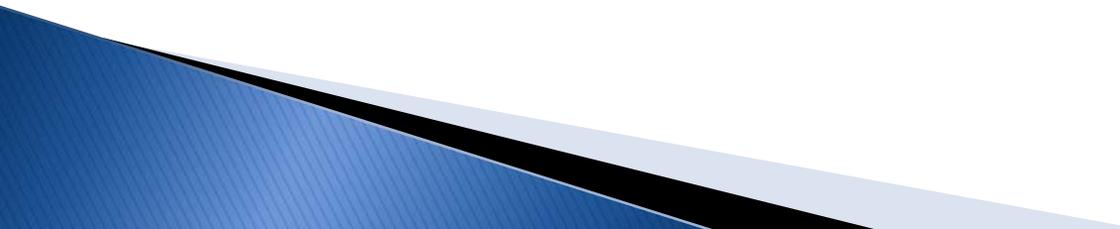
**presentation for**



**Phillip M. Miller, P.E.  
Napa County**

**December 12, 2011**

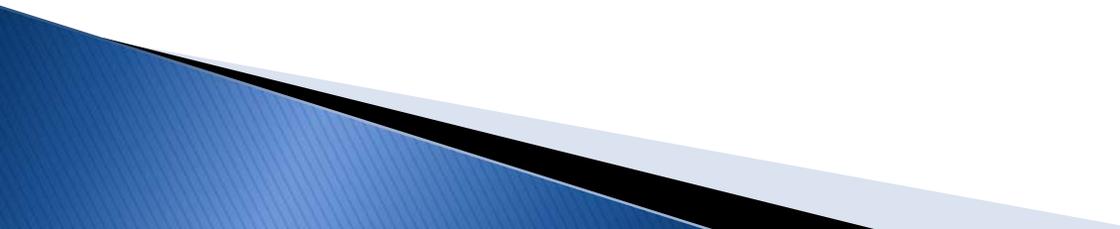
# Background

- ▶ November 2009, SBX7-6 mandated that the groundwater elevations in all basins and sub-basins in California be monitored for seasonal and long-term trends.
  - ▶ The legislature added another aspect to SBX7-6 which was to make certain elements of the GW level info available to the public.
  - ▶ DWR developed the CASGEM program to comply with mandate.
  - ▶ December 2010, Napa County volunteered to be the countywide monitoring entity.
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In September 2011, Napa County was conditionally designated as the monitoring entity for the following basins and sub-basins by DWR:

- ▶ Napa Valley
  - ▶ Napa–Sonoma Lowlands
  - ▶ Suisun–Fairfield Valley in Napa County
  - ▶ Berryessa Valley
  - ▶ Pope Valley
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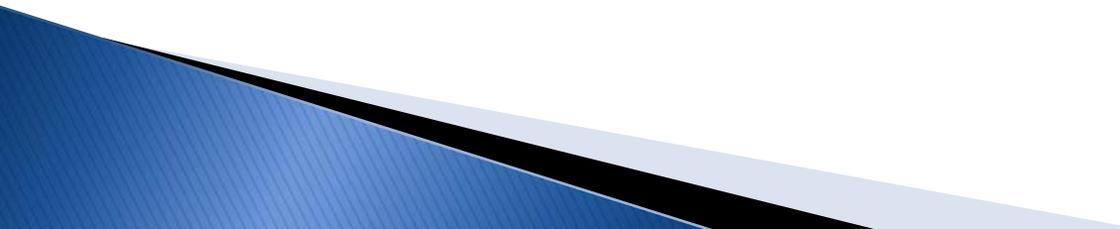
As the monitoring entity, Napa County is required to:

- ▶ Submit a network plan by September 2011
  - ▶ Input detailed well information into the CASGEM online submittal system
  - ▶ Report groundwater elevations by January 1, 2012
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# Napa County's Current/Pre-CASGEM Role in Groundwater Elevation Monitoring

- ▶ DWR wells
  - 26 private wells
  - Measure twice a year: April and Oct. of each year
  - Measurements reported to DWR
  - Well elevation data are posted in the Water Data Library (WDL) by DWR
- ▶ MST wells
  - Approximately 15 private wells
  - Measurements commenced in 2000
  - Measure twice a year: April and Oct. of each year
  - Measurements are not reported to DWR

# CASGEM Outreach

- ▶ Other entities (cities and town) in the county were notified in August 2011, informing them of County's role as the monitoring entity and the process underway to comply with the CASGEM program
  - ▶ Outreach letters were sent and follow-up telephone calls were made this past summer to 31 property owners whose wells have been historically monitored by the County and DWR for the WDL, seeking their interest to participate in the CASGEM program
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# CASGEM Outreach

- ▶ Property owners were informed of the following:
  - Reporting is similar to the WDL program; the difference is the inclusion of well construction data
  - Name and address will not be submitted to CASGEM

# CASGEM Outreach

- Property owners, if interested in participation, were requested to sign a Right of Entry and CASGEM Participation Agreement
  - By September 2011, 15 property owners volunteered to participate and returned a signed agreement
  - No public water supply wells can be included for security reasons
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# Napa County CASGEM Network Plan and Program 2011

## Objectives

- ▶ Provide representative groundwater conditions in Napa County groundwater basins, sub-basins, and/or county subareas; and
  - ▶ Provide systematic groundwater elevations to demonstrate seasonal and long-term trends
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# CASGEM Network Plan

- ▶ **Monitoring Schedule**
  - Twice a year; spring and fall
- ▶ **Reporting**
  - At the end of each calendar year to DWR
- ▶ **Current Status – CASGEM Phase 3 (Nov 21, 2011)**
  - Groundwater measurements collected in October of this year and elevation data are ready to upload into the CASGEM online system
  - DWR is satisfied with the Napa County Network Plan and requested the County to re-upload its final plan into the CASGEM online system
  - Napa County will be officially designated as the monitoring entity once the Network Plan is uploaded

# Napa County CASGEM Network – 2012 and Beyond

## Objectives

- ▶ Additional public outreach
  - ▶ Improve horizontal and/or vertical spatial distribution of data
  - ▶ Identify appropriate monitoring sites to evaluate surface water and groundwater recharge/discharge mechanisms
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# Napa County CASGEM Network – 2012 and Beyond

- ▶ Include at least one well in the following basin areas: Pope Valley, and Berryessa Valley
- ▶ Additional wells in the Napa Valley Floor Subareas

# Confidentiality Related to Wells

- ▶ Well Completion Reports are confidential as required by State law
  - ▶ Napa County (Environmental Management/Public Works) has no written confidentiality policy to the distribution of well data except for MST wells and Well Completion Reports
  - ▶ Property information such as name and address related to wells and well data are not shared publicly by the county
  - ▶ SB 263, which would have made public well logs, was defeated during the 2011–2012 session
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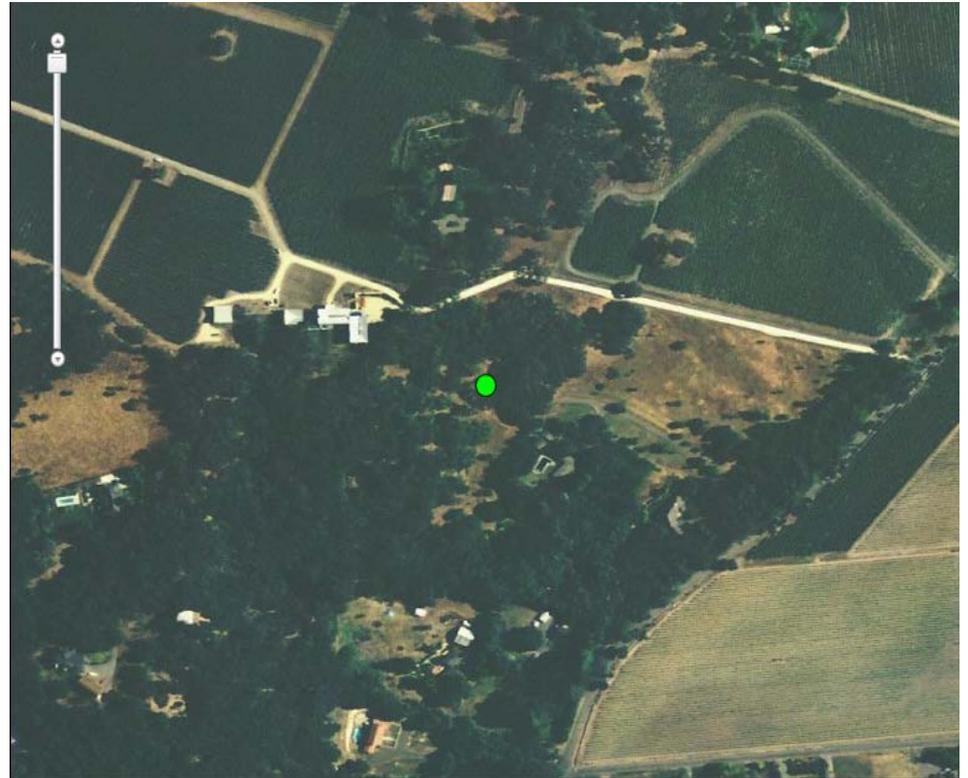
# Confidentiality Related to CASGEM

- ▶ CASGEM makes public portions of the well completion report

Public: Well Details	
<a href="#">▼View Well Data</a>	
<b>Identification</b>	<b>Coordinates</b>
Local Well Designation 91	Latitude 38.3090 North
Is Local Designation the same as State Well #? No	Longitude 122.2340 West
State Well Number 05N03W06B002M	<a href="#">View on Map</a>
Master Site Code 383133N1222325W001	Method USGS quad
Data submittals for this well are under CASGEM	Accuracy 150 ft.
<b>Reference and Ground Surface</b>	<b>Well Construction</b>
RP Elevation 282.20 ft.	Completion Type Single Well
Description Top of casing access NW	Total Depth 415 ft.
GS Elevation 283 ft.	Do you have well construction data? Yes
Method USGS quad	Depth of screened interval(s)
Accuracy 10 ft.	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10
Distance from RP -0.80	Top 315
	Bottom 415
<b>Well Usage</b>	Well completion report available? Yes
Well Use Residential	Well Completion Report # 119632
Well Status Active	
	<b>Associated Basin &amp; County</b>
	Basin/Portion
	County Napa
<b>Additional Information</b>	
Written description of location of well	Any additional comments

# Confidentiality Related to CASGEM

- ▶ CASGEM provides well location information in the form of:
  - a set of latitude/longitude coordinates
  - a map interface
- ▶ See LSCE paper on CASGEM and well location accuracy



# DWR Web Links

- ▶ CASGEM Public Portal:

[www.water.ca.gov/groundwater/casgem/online\\_system](http://www.water.ca.gov/groundwater/casgem/online_system)

- ▶ Water Data Library:

[www.water.ca.gov/waterdatalibrary](http://www.water.ca.gov/waterdatalibrary)