



Our Groundwater Resources in Napa County

Monitoring for Sustainability



A Tradition of Stewardship
A Commitment to Service

Outreach Presentation
July 2013

www.countyofnapa.org/bos/grac



Overview

- Background
- What We Know
- Importance of Groundwater (GW)
- What We're Trying to Learn
- Voluntary GW Monitoring Program
- Groundwater Resources Advisory Committee (GRAC)
- Next Steps
- Education & Outreach
- Sustainability



Groundwater: *What we know*

Napa County and other public agencies have been monitoring groundwater resources since mid-1900's

Groundwater Levels

- The Napa Valley Floor shows stable long-term trends and shallow depth to water

Milliken, Sarco & Tulucay (MST) creek watersheds

- Northern MST shows historical declines but it has stabilized in last 30 years
- Central MST shows long-term declines, increasing since 1990 with recent stabilizing
- Southern MST is historically stable with shallow depth to water, some decline in mid-1990's to mid-2000's with recent stabilizing



Groundwater: *What we know*



Groundwater Quality

- Quality generally good on Napa Valley Floor
- Higher levels of salt and other constituents in northern Napa Valley Floor/Calistoga
- Salts, iron and other constituents are higher in southern Napa Valley Floor



Groundwater Recharge

- Most recharge occurs in the Napa River watershed
- Almost 43% of the watershed has geology/soils with the greatest potential for recharge

Importance of Groundwater in Napa County



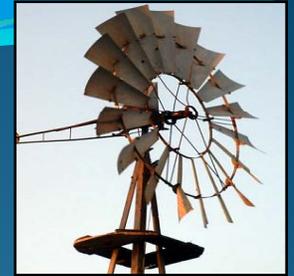
Vital source of water supply

- Relied upon by: residents, businesses, agriculture, fish, wildlife, and the natural environments
- Used for drinking, irrigation, the environment, others

These and other water demands make it essential that we:

- Preserve GW quality and availability for the long term
- Be able to meet water needs during drought conditions
- Prevent potential negative environmental effects due to groundwater use

What Are We Trying to Learn about Groundwater?



- How does GW move through our aquifer?
- What is the overall status of our aquifers in Napa County?
- What are the groundwater conditions & trends?
- How do groundwater and surface water connect?
- Questions led to development of the Groundwater Monitoring Program

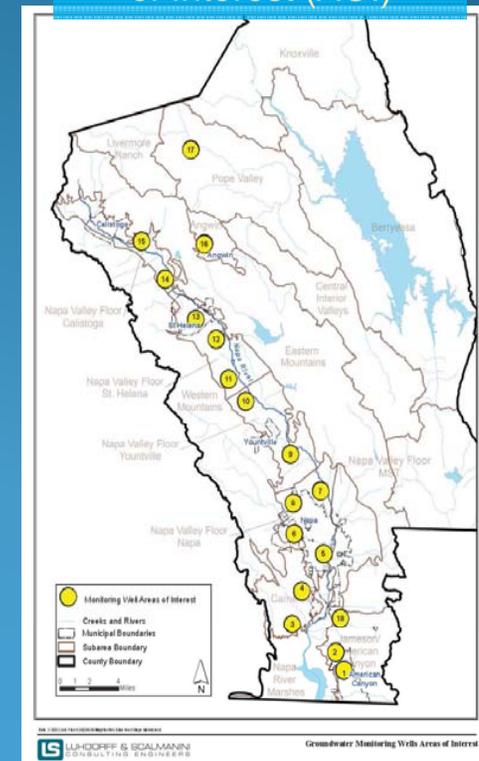


Voluntary Groundwater Monitoring Program



- Expands voluntary monitoring well network to help answer remaining questions
- Supports County water resources goals
- Addresses identified data needs
- Coordinates data collection with State/Federal agencies
- Incorporates data into a locally maintained system

GW Monitoring Areas of Interest (AOI)



Napa County Groundwater Monitoring Plan 2013

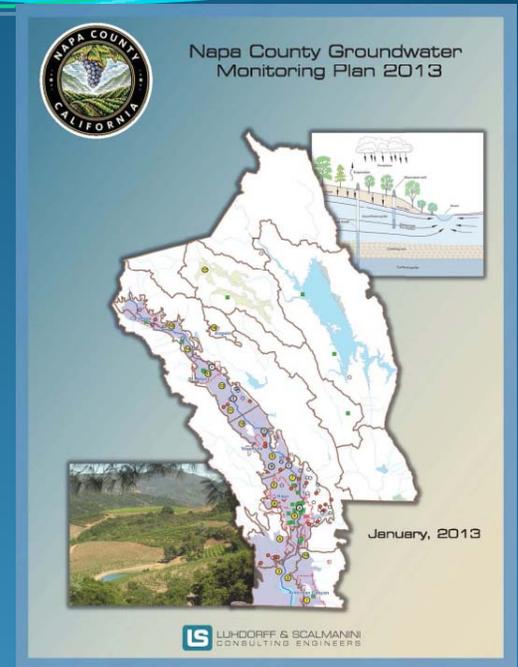
4 GW Basins/2 Sub-Basins(DWR)

17 GW Subareas Countywide

- Napa Valley Floor includes 5 Subareas

7 GW Level & Quality Priority Subareas

18 GW Monitoring Areas of Interest (AOI)



Next Steps....



- Public Outreach & Education
- Review of draft Groundwater(GW) Ordinance and Permit Process Updates
- Development of GW Sustainability Objectives
- Provide Final GW Recommendations to the Board of Supervisors (2014)

Education & Outreach

- Ag Industry, Environmental, others
- GRAC- WICC Board **Joint Meetings**
 - Hosting Public Meetings/Forums
- Participation in Community Events
 - Earthday, River Fest, others
- Public Speaking
 - Organizations, Groups, others...
- WICC **Watershed Symposium**

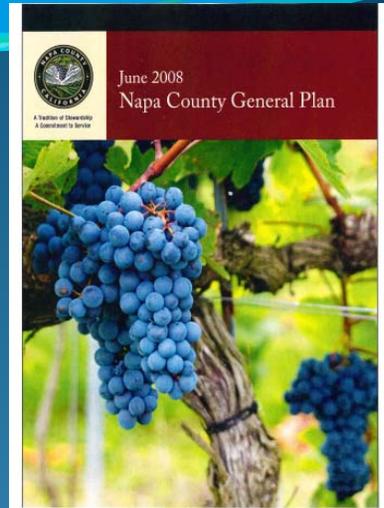


Groundwater Sustainability

GW Monitoring Program and GRAC Efforts Consistent with Napa County General Plan

Water Resources Goals/Actions

- **Goal CON- 12:** Collect information about status of Surface and Groundwater resources for improved forecasting of supplies and effective management
 - **Action Item CON WR- 4:** Implement a countywide watershed monitoring program to assess health of County's watersheds
 - **Action Item CON WR- 8:** Monitor Surface and Groundwater interrelationships using County-owned wells and stream and precipitation gauges, data from private property owners on a voluntary basis, data via conditions of land-use approvals, data from DWR and other agencies/organizations



Groundwater Sustainability

- Ongoing monitoring of groundwater conditions to ensure stable long-term supply
- Build partnerships and expand collaborative efforts to improve supply reliability, protect water quality, and sustain habitats
- Seek funding to further our understanding of surface and groundwater resources conditions and trends





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For Additional Information:

GRAC Website: www.countyofnapa.org/bos/grac

Patrick Lowe
707-259-5937
patrick.lowe@countyofnapa.org

Phil Miller
707-259-8620
phillip.miller@countyofnapa.org

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WE ARE NAPA COUNTY
GROUNDWATER RESOURCES ADVISORY COMMITTEE
ADVISORY COMMITTEE TO THE BOARD OF SUPERVISORS

CONTACT US

Patrick Lowe
Natural Resources Program Manager
PH: (707) 259-8600
FAX: (707) 259-8619
EMAIL: patrick.lowe
[More Information](#) | [Map](#)

Groundwater Resources Advisory Committee

Meeting synopsis: Feb 28, 2013
The Napa County Groundwater Resources Advisory Committee (GRAC) held its tenth meeting on Feb. 28, 2013. Ms. Vicki Kretzinger Grabert, Mr. Reid Bryson and Mr. Ken Utley, Lahdorff and Scalantelli Consulting Engineers (LSE), presented the updated Hydrogeologic Conceptualization and Characterization of Conditions Report. The regional geology, surficial, structural and subsurface geology, and the hydrogeology were discussed in detail to demonstrate the increased understanding of the geology and of the groundwater and surface water interaction in the county. Mr. Phil Miller, Napa County, presented the updated Groundwater Monitoring Data Management and Disclosure Guidance document and Mr. Jeffrey Sharp, Napa County, provided an update on data management efforts currently underway. The Committee unanimously approved the document.
To prepare for well owner outreach, Committee members organized themselves into provisional Volunteer Outreach Teams for the 18 areas of interest. The Committee will finalize teams based on more specific well area information. The Committee agreed to hold two or three tri-flags for groups that have common interests, and then host a meeting for the general public at a joint meeting of the GRAC and WICC Board on July 25, 2013. Mr. Steve Lederer and Mr. Patrick Lowe, Napa County, reviewed items proposed for inclusion in the presentation that Mr. Peter McCrea, the Committee Chair, will make to the Board of Supervisors on April 2, 2013. The outreach discussion will be continued at the next Committee meeting. The Committee's next meeting will be held on April 25, 2013.
Please see the links below for copies of the February 28, 2013, presentations and handouts.

Future Meeting Information
The next meeting of the GRAC will be April 25, 2013 at 2:00 p.m.
Agricultural Commissioner's Office/UCCE Conference Room
1710 Soscol Avenue, Napa.
The meeting agenda and related materials can be found on this webpage roughly one week prior to the meeting date.

Meeting agendas and materials

Thank You

