



Board of Directors

Susan Boswell
Emma Chow
Barry Christian
Tosha Comendant
Diane Dillon
Marita Dorenbecher
Geoff Ellsworth
Jeri Hansen
David Graves
Gary Kraus
Jason Lauritsen
Kenneth Leary
Alfredo Pedroza
Bill Pramuk
Kimberly Richard
Scott Sedgley
Pamela Smithers

Alternates

Mariam Aboudamous
Jeffrey Durham
Doris Gentry
Ryan Gregory
Mary Koberstein
Irais Lopez-Ortega
Brent Randol

Staff

Patrick Lowe,
Secretary
Natural Resources
Conservation Mgr.,
Public Works

Jeff Sharp,
Principal Planner,
Public Works

804 First Street,
Napa, CA
94559-2623

Tel: 707-259-8600

info@napawatersheds.org

AGENDA

SPECIAL MEETING

Wednesday, December 12, 2018, 2:00 p.m.

NVTA Board Room, 625 Burnell St., Napa CA 94559

--- Note Special Meeting Location ---

1. **CALL TO ORDER AND ROLL CALL** (Chair)
2. **APPROVAL OF ACTION MINUTES** – July 26, 2018 Regular Meeting (Chair) (2 min)
3. **PUBLIC COMMENT** – In this time period, anyone may comment to the Council regarding any subject over which the Council has jurisdiction, or request consideration to place an item on a future Agenda. No comments will be allowed involving any subject matter that is scheduled for discussion as part of this Agenda. Individuals will be limited to a **three-minute presentation**. No action will be taken by the Council as a result of any item presented at this time. (Chair)
4. **UPDATES AND REPORTS**
 - a) Update on the 2019 Watershed Education Calendar – Native Birds of Napa County (Anna Yip, Volunteer & Outreach Coordinator, Napa County RCD) (5 min)
 - b) Update on 2019 Watershed Symposium – Save the Date for May 16, 2019 at CIA-Copia (Staff) (5 min)
 - c) Report on new interns hired to assist with website updates, outreach and other natural resource programs (Staff) (2 min)
 - d) Report on Napa County Strategic Plan Update (Steve Lederer, Director of Public Works/Strategic Plan Taskforce Member) (10 min)
 - e) Report on Napa County’s Climate Action Plan (David Morrison and Jason Hade, Planning, Building and Environmental Services Department) (25 min)

(cont.)

- f) Update on Napa County's Groundwater Sustainability Program (Staff) (10 min)
- g) Report on WICC supported educational activities July-November and use of Citizen Science on the WICC website to monitor Streamflow and Trash (Staff) (10 min)

5. **PRESENTATIONS AND DISCUSSION:**

- a) Presentation and discussion on the 2017-18 Napa River Fish Monitoring Report (Jonathan Koehler, Senior Biologist, Napa County Resource Conservation District) (20 min)
- b) Presentation and discussion on PBES Storm Patrols: An overview of winter storm inspection programs for structural and agricultural projects and areas affected by the October 2017 wildfires (Patrick Ryan and Brian Bordona, Planning, Building and Environmental Services (PBES) Dept.) (20 min)

6. **INFORMATIONAL ANNOUNCEMENTS:**

Exchange of informational announcements and events (Staff/Council/Public) (5-10 min)

7. **FUTURE AGENDA ITEMS:**

Discussion of possible items for future agendas (Staff/Council) (5 min)

- Election of 2019 Chair and Vice Chair
- Adoption of 2019 Meeting Calendar
- Presentation on Berryessa-Snow Mountain National Monument
- Presentation on prioritizing, assessing and planning cleanups of local abandon mines

8. **NEXT MEETING:**

Next scheduled meeting:

January 24, 2019 – 3:00 p.m.

2751 Napa Valley Corporate Drive, South Campus, Building A
First Floor, Conference Room, Napa CA 94558

9. **ADJOURNMENT (Chair)**

Note: If requested, the agenda and documents in the agenda packet shall be made available in appropriate alternative formats to persons with a disability. Please contact Jeff Sharp at 707-259-5936, 804 First St., Napa CA 94559-2623.





-- ACTION MINUTES --

REGULAR MEETING

Thursday, July 26, 2018, 3:00 p.m.

2751 Napa Valley Corporate Drive, South Campus, Building A
First Floor, Willow Conference Room, Napa CA 94558

--- Note Meeting Location ---

Board of Directors

- Susan Boswell
Emma Chow
Barry Christian
Tosha Comendant
Diane Dillon
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1. CALL TO ORDER AND ROLL CALL (Chair)

*The meeting was called to order at 3:30p with quorum of the Council present.

Members Present: Emma Chow, Barry Christian, Tosha Comendant, Diane Dillon, David Graves, Gary Kraus, Jason Lauritsen, Kenneth Leary, Bill Pramuk,

Members excused: Susan Boswell, Marita Dorenbecher, Geoff Ellsworth, Alfredo Pedroza, Kimberly Richard, Scott Sedgley, Pamela Smithers

Members absent: Jeri Gill

Staff present: Patrick Lowe; Jeff Sharp

2. APPROVAL OF ACTION MINUTES – May 24, 2018 Special Meeting (Chair) (2 min)

Approved

Table with 15 columns (SB, EC, BC, TC, DD, MD, GE, DG, GK, JL, KL, AP, BP, KR, SS, PS) and 2 rows of initials.

3. PUBLIC COMMENT – In this time period, anyone may comment to the Council regarding any subject over which the Council has jurisdiction, or request consideration to place an item on a future Agenda. No comments will be allowed involving any subject matter that is scheduled for discussion as part of this Agenda. Individuals will be limited to a three-minute presentation. No action will be taken by the Council as a result of any item presented at this time. (Chair)

Gary Margadant asked if Murphy Creek is having a dewatering problem. Patrick Lowe responded that past research on the creek by the Napa RCD on the issue suggest that residential riparian water rights may be the issue. The State Division of Water Rights has apparently looked into the matter. David Graves noted that the issue dates back to 2001 and that the matter rests within the jurisdiction of the CA Dept. of Fish and Wildlife and Department of Water Resources.

4. UPDATES AND REPORTS

a) Introduction of Lucas Patzek, new Resource Conservation District (RCD) Executive Director and update on WICC/RCD partnership (Staff/Lucas Patzek) (5 min)
This item was not heard by the Council due to lack of quorum.

(cont.)

- b) Report on WICC 2017-18 fiscal year accomplishments: A high-level overview of WICC supported projects and events (Staff/Lucas Patzek) (15 min)

This item was not heard by the Council due to lack of quorum.

- c) Report on WICC website statistics and update on new site launch (Staff) (10 min)

This item was not heard by the Council due to lack of quorum.

- d) Update on Napa County's Groundwater Sustainability Program, including: 2017 Groundwater Sustainability Annual Report highlights/ key findings, Department of Water Resources (DWR) Basin Reprioritization process, recent research on Earthquakes and Groundwater, status of DWR review of Napa County's Basin Analysis Report (alternative/equivalent Groundwater Sustainability Plan), and other program activities (Staff/Vicki Kretsinger Grabert and Nick Watterson, Luhdorff & Scalmanini Consulting Engineers) (45 min)

Patrick Lowe provided a presentation on increasing levels fake news and misinformation at the national, regional and local scale. Mr. Lowe stressed the need for all of us to question the source of the information we receive, do our own fact checking and to not rely upon our intuition, which can often be bias. He asked that on one be open-minded and not to fall into "lazy thinking." He asked that we all build up our "resistance to disinformation" and that we all "actively listen" rather than just "waiting to talk". Mr. Lowe pointed out two articles that were circulated in May and June that misrepresented local groundwater conditions. He noted that the Dept. of Water Resources (DWR) and the authors ultimately provided corrections to what was presented in the articles, but noted that these corrections often go unnoticed beneath the eye-catching titles.

Mr. Lowe introduced Vicki Kretsinger Grabert, Napa County's groundwater consultant, who provided the Council with a presentation covering highlights from the County's 2017 Annual Groundwater Report, progress made implementing the Sustainable Groundwater Management Act (SGMA), draft groundwater basin prioritization conducted by DWR and the science used in the recent "2014 Napa earthquake may be linked to groundwater changes" study reported in the press. 107 wells were monitored in 2017, 10 of those were dedicated surface water/groundwater monitoring wells. Ms. Grabert provided summaries of data and hydrographs from various wells in the monitoring network. Ms. Grabert explained a set of "sustainability indicators" that have been established as metrics to measure and track overall groundwater sustainability (and management) in the Napa Valley Subbasin. She reviewed the components of a calculated water budget for the groundwater basin and reported that the net average annual change in Subbasin storage is about +6,000 acre-ft/yr. Ms. Grabert referenced the CA Water Code to define sustainable yield terminology and the process of establishing groundwater sustainability indicators, noting that surface water depletion is likely the most "hydrologically sensitive" indicator in the Napa Valley. Along with the indicators, she explained how minimum thresholds and measureable objectives are determined under SGMA. Of the 107 wells in the County's monitoring network, 18 distributed throughout the valley are "SGMA representative monitoring sites" and thus have sustainability metrics associated with them. All of the 18 sites were above the minimum threshold for water-year 2017 (2 sites were not monitored due to the Oct. fires). Groundwater levels remain stable in the majority of the wells in the Napa Valley Subbasin. Data shows that groundwater level declines in the Milliken/Sarco/Tulucay subarea have stabilized in some wells since 2008/2009 and in other wells in more recent years. Recommendations in the 2017 Annual Report include: continued effort to refine the monitoring network and address any data gaps, conduct water quality sampling, improve data collection form land-use permittees, evaluate recharge and conservation opportunities, evaluate groundwater dependent ecosystem distributions and update groundwater ordinances.

Ms. Grabert than discussed the draft basin prioritization effort underway by DWR and what the proposed rankings mean for Napa County's basins/subbasins. She noted that the proposed addition of 3.25 points in ranking that would reclassify the Napa Valley Subbasin from Medium to High does not

change the current management of the basin under SGMA. The proposed reclassification of the Napa-Sonoma Lowlands Subbasin with an additional 6 points would move it from a Low to Medium priority, and thus change its management requirements. Upon looking at the data DWR used to reprioritize the Lowlands Subbasin, Ms. Grabert noted that DWR's interpolation of the data miscalculates the amount of acres irrigated by groundwater and the amount of groundwater used for irrigation. She also noted that DWR based its water quality ranking on very limited data from 1975 to substantiate a higher basin ranking.

Ms. Grabert also discussed the information presented in the recent "2014 Napa earthquake may be linked to groundwater changes" study and articles in the press (AGU article and journalist). She noted that no groundwater level or pumping data was used in the author's research. Ms. Grabert pointed out that the infiltration and evapotranspiration (components of the basin water budget) are 15 times greater than the amount of groundwater pumping, making it a far stretch to say that groundwater pumping caused any direct influence on occurrence of the 2014 Napa Earthquake. Ms. Grabert explained the phenomenon of seasonal vertical displacement of the ground surface over the course of the year and provided data from the instruments that monitor and collect this information. She demonstrated that the data does not support the author's description or conclusions in the study. The Council asked questions of Ms. Grabert and Mr. Lowe. Mr. Lowe.

5. PRESENTATIONS AND DISCUSSION:

Presentation and discussion on California State Park's Ritchey Creek Fish Passage Project and other State Park projects in Napa County (Christina Freeman, Environmental Scientist, California State Parks) (25 min)

**At the request of State Parks staff, this item was heard before 4d, to accommodate Parks staff travel time to Petaluma and prior time commitments.*

Cyndy Shafer, Senior Environmental Scientist with the State Dept. of Parks and Recreation for the Bay Area District, provided the Council with a presentation on the State Parks natural resource program in Napa County with a focus on the State's Ritchey Creek projects. Ms. Shafer provided an overview of the State Parks that exist in Napa County and the Park's ongoing programs and special projects planned and underway. Program areas include native community protection, habitat restoration, and acquisition of new science. Special projects include three fish passage barrier projects along Ritchey Creek, two of them located within Bothe-Napa Valley State Park and one at State Hwy 29 bridge at the Park's eastern border. The Day Use Road Barrier has been studied for nearly 10 years and funding was obtained this year to move forward with design and permitting. It will be a few years to finalize the design, obtain permits and commence construction. The Spring Road Crossing (upper barrier) is fully designed, permitted and funded and is on track to be removed in August 2018. Protection of nearby cultural resources and sensitive ecology make these projects very challenging. Ms. Shafer answered questions from the Council and provided Bothe-Napa Valley State Park brochures.

6. INFORMATIONAL ANNOUNCEMENTS:

Exchange of informational announcements and events (Staff/Council/Public) (5 min)

Mr. Lowe mentioned that Napa County's Basin Analysis Report (Alternative Groundwater Sustainability Plan) is still under review with the DWR. It is possible that DWR will conclude their review of the report by the end of 2018.

Barry Christian announced the Bale Grist Mill Autumn Harvest Dinner to be held on September 8th.

Emma Chow announced that she has accepted a District Conservationist position in Santa Barbara County and can no longer represent NRCS on the Council.

7. FUTURE AGENDA ITEMS:

Discussion of possible items for future agendas (Staff/Council) (2 min)

8. **NEXT MEETING:**

Next scheduled meeting: **September 27, 2018 – 3:00 p.m.**
 2751 Napa Valley Corporate Drive, South Campus, Building A
 First Floor, Conference Room, Napa CA 94558

9. **ADJOURNMENT (Chair)**

Motion and approval to adjourn.

<i>SB</i>	<i>EC</i>	<i>BC</i>	<i>TC</i>	<i>DD</i>	<i>MD</i>	<i>GE</i>	<i>DG</i>	<i>GK</i>	<i>JL</i>	<i>KL</i>	<i>AP</i>	<i>BP</i>	<i>KR</i>	<i>SS</i>	<i>PS</i>
<i>E</i>					<i>E</i>	<i>E</i>		<i>A</i>			<i>E</i>		<i>E</i>	<i>E</i>	<i>E</i>

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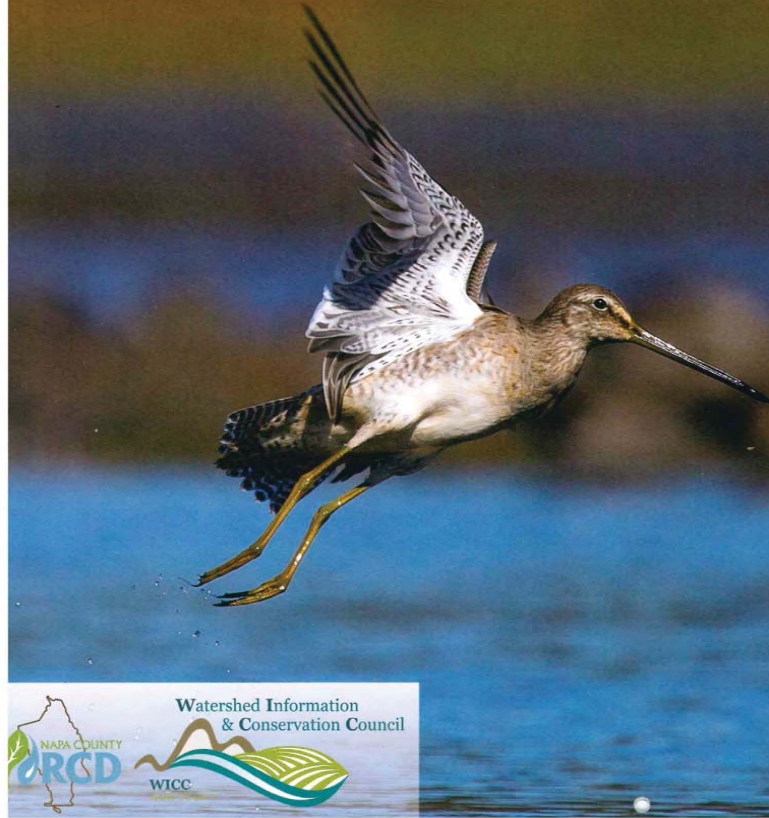
Voting Key

If not unanimous, votes will be tallied (N = No; A = Abstained, E = Excused) using the following Board Member abbreviations: SB = Susan Boswell; EC = Emma Chow; BC=Barry Christian; TC = Tosha Comendant; DD = Diane Dillon; MD = Marita Dorenbecher; GE = Geoff Ellsworth; JG = Jeri Gill; DG=David Graves; GK = Gary Kraus; JL = Jason Lauritsen; KL = Kenneth Leary; AP = Alfredo Pedroza; BP=Bill Pramuk; KR=Kimberly Richard; SS = Scott Sedgley; PS = Pamela Smithers; Alternates: MA = Mariam Aboundamous, JD = Jeffrey Durham, DG2 Doris Gentry, RG = Ryan Gregory, ILO = Irais Lopez-Ortega, BR=Brent Randol.

Example Key:

<i>SB</i>	<i>EC</i>	<i>BC</i>	<i>TC</i>	<i>DD</i>	<i>MD</i>	<i>GE</i>	<i>JG</i>	<i>DG</i>	<i>GK</i>	<i>JL</i>	<i>KL</i>	<i>AP</i>	<i>BP</i>	<i>KR</i>	<i>SS</i>	<i>PS</i>
	<i>N</i>				<i>A</i>		<i>A</i>								<i>E</i>	

NATIVE BIRDS OF NAPA COUNTY 2019 WATERSHED CALENDAR NAPAWATERSHEDS.ORG



Native Birds of Napa County

Cover photo: Andrew Lincoln



Sparrow sp. (*Zonotrichia* sp.)
Ann Seronello



Burrowing Owl (*Athene cunicularia*)
Jorgen Gulliksen



American Avocet (*Recurvirostra americana*)
Jules Evens

Napa County Resource Conservation District (RCD)



RCD was established in 1945 to help the community make smart decisions about taking care of natural resources in Napa County. Our work helps ensure that future generations enjoy watersheds with productive agriculture, healthy cities, and thriving streams. RCD connects people to one another and to their watersheds. Below are some of the activities we do each year:

- Host volunteer cleanups, planting days, hands-on workshops, lectures, and symposia
- Connect students to our watersheds through field trips to local open spaces and working lands
- Consult with hundreds of landowners on erosion prevention, irrigation, habitat projects, and farm planning
- Track Napa River fish populations and share findings with the public, researchers, and related agencies

Sign-up for RCD's e-newsletter at NapaRCD.org

Watershed Information & Conservation Council (WICC)



The WICC improves the health of Napa County's watersheds by informing, engaging, and fostering partnerships within the community.

WICC collects, distills, and disseminates the best possible information, tools and education concerning the County's surface water, groundwater, and natural resources, to help the community discover and understand their watersheds in order to make well-informed decisions.

WICC supports cooperation and collaboration, research, and community education that maintains and improves water quality, native plant and wildlife habitat, and ecological processes.

Visit NapaWatersheds.org to join WICC and stay informed about news, events, and opportunities.

Native Birds of Napa County

"Birds represent a link to both our natural environment and the possibility of freedom to soar without boundaries."¹

-Rue Mapp

Bird Facts

- 400 species of birds visit or live in Napa County each year.
- Napa County is located directly within the Pacific Flyway, a corridor of habitat supporting millions of migratory birds.
- Rare and endangered birds live here such as northern spotted owl, Ridgway's rail, and Samuel's song sparrow.
- Native birds such as barn owls, western bluebirds, and cliff swallows help control pests like rodents and mosquitoes.



See for yourself! Napa-Sonoma Marsh and Wetlands Edge Trail offer opportunities to see shorebirds and waterfowl, while inland areas such as the Napa River Eco Reserve, Moore Creek Park, and Lake Berryessa showcase upland species like songbirds, woodpeckers, hawks, and owls.

We hope this year's watershed calendar about native birds will inspire you to get outside, explore, and appreciate our natural environment.

-Your friends at WICC & RCD

¹Audubon.org "Why do birds matter?" 2013
Pacific Flyway - NPS.gov

Bird Resources

Birds of Napa County (Book) Herman Heinzel

This illustrated guidebook is widely available and displays locally observed species, keys to identification, and provides recommendations of where to see birds.

Breeding Birds of Napa County, California (Book) Bernier, Grummer, Leong, Rippey

Volunteers produced this comprehensive countywide listing of birds that nest and reproduce here. This book shows specific places where each species can be found.



Breeding Birds of Solano County (Book)

Bernier, Leong, Rippey

Similar to the publication above, this book describes breeding birds and where they can be found. Published in 2014, this book provides detailed accounts of life histories and locations for seeing birds.

Napa-Solano Audubon Society

NapaSolanoAudubon.com

NSAS leads regular guided walks and field trips to local & regional birding "hotspots". NSAS also coordinates events, school programs, and volunteer opportunities.

Great horned owl: Andy Godwyn



Burrowing owl (*Athene cucularia*)
Rick De Bernardi



Bullock's oriole (*Icterus bullockii*)
Karen Swain



Clark's grebe (*Aechmophorus clarkii*)
Don Wong



Cassin's vireo (*Vireo cassinii*)
Peter Stoppello

Get involved, Make a difference, Join us

Free WILD lecture series

WILD Napa, WILD American Canyon, and WILD St Helena offer regular lectures focused on wildlife of Napa County. Check NapaRCD.org for the current schedule.

Volunteer!

RCD hosts Coastal Cleanup, Earth Day Cleanup, and community oak volunteer events throughout the year. Events are open to all.



Subscribe to the RCD and WICC newsletters

Newsletters connect you to local events, volunteer opportunities, and exciting projects in our watersheds.

RCD conservation services

RCD staff support on-the-ground projects on private & public properties that reduce erosion, enhance habitat, and evaluate erosion, irrigation, and groundwater.

Attend WICC meetings

Meetings are held every other month and are a great way to stay informed about watershed health. Visit NapaWatersheds.org for meeting dates and agendas.



Donate

Your contribution is especially needed to support youth education, oak restoration, and watershed monitoring. Donate at NapaRCD.org

All photos appearing in this calendar are submitted and donated by volunteer photographers. Thank you for sharing your images, observations, and appreciation of Napa County watersheds.

This calendar was prepared by Napa County Resource Conservation District and Watershed Information & Conservation Council of Napa County for informational use only. No liability is assumed for the accuracy of information or data displayed herein. All photos in this calendar are copyright or belong to Napa County RCD and volunteer photographers credited herein. All rights reserved.

Special thanks

Josh Cariso, Eric McKee, Jeff Sharp, Patrick Lowe, and the volunteer photographers who contributed all photographs used in this calendar. This calendar is printed on 100% post-consumer recycled paper





NAPA COUNTY

STRATEGIC PLAN TIMELINE

JUNE | JULY

PREPARATION, FORMATION, & EDUCATION

- Create Draft Work Plan & Timeline
- Form Strategic Planning Task force Concept

JULY 31 - PUBLIC MEETING

Provide presentation of Draft Strategic Plan Work plan & Timeline to Board of Supervisors

AUGUST |
SEPTEMBER

EXPLORATION & INFORMATION

- Outreach and Data Collection with Stakeholders

OCTOBER

DISSEMINATION & COMPILATION

- Outreach and Data Collection with Stakeholders
- Summarize Stakeholder Feedback
- Host Strategic Planning Retreat with Department Heads

OCTOBER 16 - PUBLIC MEETING

Provide update and check back with Board of Supervisors

NOVEMBER |
DECEMBER

PRESENTATION & ADOPTION

DECEMBER 18 - PUBLIC MEETING

Presentation of Draft Strategic Plan to the Board of Supervisors

- Adoption of the Strategic Plan



Item #4 e

Report on Napa County's Climate Action Plan (David Morrison and Jason Hade, Planning, Building and Environmental Services Department) (30 min)

The Napa County Department of Planning, Building, and Environmental Services (PBES) has been working to develop a Climate Action Plan (CAP) for the County for several years. The CAP is intended to quantify and reduce greenhouse gas (GHG) emissions in unincorporated Napa County, and its adoption would implement an "action item" from the County's 2008 General Plan Update.

An Executive Summary of the Revised Draft Plan is attached.

A full copy (274 pgs) of the Revised Draft Climate Action Plan is available at:

<https://www.countyofnapa.org/592/Climate-Action-Plan>



A Tradition of Stewardship
A Commitment to Service

REVISED DRAFT

Climate Action Plan



Executive Summary

This Climate Action Plan (CAP) provides a comprehensive roadmap to address the challenges of climate change in unincorporated Napa County. Acting on climate change means reducing greenhouse gas (GHG) emissions from local sources and helping the community to adapt to climate change and improve its resilience over the long term.

The scientific consensus is that it is “extremely likely” that global climate change is caused by GHG emissions associated with human activities, and that significant reductions in human-caused GHG emissions are needed by the mid-21st century to prevent the most the catastrophic effects of climate change. To this end, in 2006, the California Global Warnings Solutions Act (Assembly Bill [AB] 32) established the State’s first target to reduce GHG emissions, which established a goal of lowering emissions to 1990 levels by 2020. California has been making steady progress and is expected to achieve the 2020 target; however, ongoing reductions in GHG emissions are needed as noted above.

In 2016, Senate Bill (SB) 32 was signed into law, which established a new mid-term target of 40 percent below 1990 levels by 2030. This target aligns with those of leading international governments such as the 29-nation European Union which adopted the same target in October 2014. The new 2030 target places California on a trajectory towards meeting its longer-term goal, which is to bring emissions down to 80 percent below 1990 levels by 2050.

Over the last decade, the County of Napa (County) has taken several steps to begin addressing climate change and achieving reductions in GHG emissions, in the County’s operations as well as the broader community. Since 2007, the County has been involved in various efforts to quantify GHG emissions sources and formulate reduction strategies on both a county and larger regional level. The County’s General Plan and Environmental Impact Report (EIR) called for development and adoption of a CAP. This CAP builds upon the County’s past efforts and fulfills the requirements of the County’s General Plan and EIR.

The key components of the climate action planning process represented in this CAP are briefly summarized below:

1. **A baseline GHG emissions inventory** was prepared for 2014 and is addressed in more detail in Chapter 2 and Appendix A. The key findings from the inventory include:
 - 484,283 metric tons of carbon dioxide equivalent (CO₂e) were emitted by communitywide sources in the unincorporated County in 2014.

The CAP aims to address climate change by reducing GHG emissions from sources within the unincorporated area, and by identifying strategies for adapting to future environmental conditions caused by climate change.

As directed by AB 32 and SB 32, the State aims to reduce annual GHG emissions to:

- 1990 levels by 2020,
- 40 percent below 1990 levels by 2030.

The State’s longer-term goal is to reduce emissions down to 80 percent below 1990 levels by 2050.



Source: County of Napa

The Top 5 Emitting Sectors in 2014:

1. Building Energy Use (31%)
2. On-Road Vehicles (26%)
3. Solid Waste (17%)
4. Agriculture (10%)
5. Off-Road Vehicles (9%).



Source: County of Napa

Local governments play an important role in achieving the State's GHG targets for 2020 and 2030, and in making substantial progress on the pathway to longer-term goals established for 2050. Action and collaboration are needed at all levels to complement and support State level actions.

The CAP contains a total of 49 local GHG reduction measures. While many of the emission reductions of the measures can be quantified, others are more difficult to quantify. However, the combination of all measures contributes towards achieving 2020 and 2030 targets.

- The largest source of emissions was the Building Energy sector (i.e., residential and commercial/industrial buildings and other facilities), which accounted for 31 percent of the inventory; while the Transportation sector accounted for approximately 26 percent of the inventory.

2. GHG emissions forecasts and reduction targets and goals were identified for 2020, 2030, and 2050, consistent with State targets under AB 32 and SB 32.

- Without any future actions (i.e., “business-as-usual” conditions), GHG emissions are expected to increase by 2020, 2030, and 2050.
- GHG emissions reduction targets for the CAP were established for 2020 and 2030, along with a long-term goal for 2050, consistent with the most recent guidance provided by the California Air Resources Board (CARB):
 - 2 percent below 2014 levels by 2020;
 - 40 percent below 2014 levels by 2030; and
 - 77 percent below 2014 levels by 2050.
- Legislative actions by State or Federal agencies help to reduce emissions in the future, but are not enough to achieve the 2030 targets. Achieving the 2030 target will require local action to help close the gap between legislative-adjusted emissions forecasts and the emissions limits established by the CAP’s targets.
- The CAP is focused on meeting the 2020 and 2030 targets, which are specific planning targets that will put the County on a long-term downward trajectory towards meeting the long-term 2050 goal.

3. Local GHG emissions reduction strategies and measures were identified to help the County achieve the 2020 and 2030 targets.

- GHG reduction strategies in the CAP are aligned with each of the eight GHG inventory sectors and contain a total of 49 specific local reduction measures.
- The primary GHG reduction measures identified in the CAP will result in measurable, quantifiable reductions in emissions. Supporting measures are qualitative measures that are difficult to quantify, but will still contribute to achieving local GHG reductions, either alone or in combination with legislative actions or other local GHG reduction measures.
- The top five measures in the CAP that will the achieve the most local GHG emissions reductions by the year 2030 include:
 - Measure BE-4: Requiring new or replacement residential water heating systems to be electrically-powered or alternatively-fueled (e.g., solar thermal, ground-source heat

pump) will reduce emissions annually by 11,575 metric tons of carbon dioxide equivalent (MTCO_{2e}) by 2030.

- Measure AG-2: Replacing diesel or gasoline-powered agricultural equipment with electric or alternatively-fueled equipment will reduce emissions annually by 8,540 MTCO_{2e} by 2030.
- Measure OR-2: Replacing diesel or gasoline with alternative fuels in recreational watercraft throughout the County will reduce emissions annually by 7,512 MTCO_{2e} by 2030.
- Measure LU-1: Establishing targets and enhanced programs that result in the preservation of oak woodlands and coniferous forests to avoid future carbon storage and sequestration losses, along with mandatory replanting to mitigate for tree loss when land use changes occur, will result in the annual reduction of 4,544 MTCO_{2e} by 2030.
- Measure TR-1: Updating and enforcing the County's Transportation System Management Ordinance will result in an annual reduction of 3,582 MTCO_{2e} by 2030.

- While the measures included in the CAP are generally geared towards reducing GHG emissions, many will also result in environmental or economic “co-benefits,” including climate adaptation co-benefits, that will help to increase community resilience and improve public health.

4. A **climate change vulnerability assessment** was prepared, and climate adaptation measures were developed to improve community sustainability.

- The climate change vulnerability assessment (Appendix C) determined that the County is vulnerable to several adverse impact climate change effects, including:
 - Increases in average temperatures and the frequency of heat waves and extreme heat events;
 - Changes to precipitation patterns;
 - Increased risk of wildfire;
 - Increased likelihood of flooding; and
 - Increased risk of coastal flooding from sea-level rise.
- Specific adaptation measures are included in Chapter 4 to address these effects. Many of the measures require the County and other partnering agencies to address climate-related risks as part of existing planning processes, as well as move towards incremental changes in the way that County services and infrastructure are maintained and operated. Community education and awareness-building are also important components of the adaptation strategies.

The total estimated annual GHG emissions reductions from all reduction measures quantified is approximately 58,327 MTCO_{2e} in 2030.

Co-benefits are the collateral positive side effects that result from strategies and measures identified in the CAP.

A vulnerability assessment includes identification of localized climate change exposure and related effects, an assessment of potential areas of vulnerability, a review of the County's current capacity to adapt to climate-related impacts, and consideration of how likely and how quickly impacts will occur. See Appendix C for the full vulnerability assessment.

The CAP outlines how County staff will implement measures, and how the CAP will be monitored and updated over time to ensure measures and targets are achieved.

5. Implementation and monitoring mechanisms are identified that will help the County ensure that the measures and targets are achieved.

The County's CAP monitoring and reporting activities will include:

- Evaluate the performance of CAP measures and prepare a progress report to the Board of Supervisors every two years, and
- Review and update the GHG emissions inventory every five years.

Climate change is a global problem, but one that must be addressed on a local level through partnerships and individual actions.

- Implementation of the measures in the CAP will require the County to develop and implement new ordinances, programs and projects, or modify existing ones. This will require careful consideration of the operational and capital resources needed, as well as the timing and phasing of implementation. Chapter 5 outlines these assumptions in detail.
- Monitoring is an important aspect of the CAP to ensure that the County is on track to achieve the GHG reduction targets and desired outcomes for increasing resilience in the face of a changing climate. To this end, the County will need to review and update the GHG emissions inventory periodically (every five years), track the community's progress on the implementation status of each measure in the CAP, and report back to the Board of Supervisors and the public at least every two years.
- The County will use the CAP to streamline the analysis of project-level GHG emissions pursuant to California Environmental Quality Act (CEQA) Guidelines Section 15183.5. Projects subject to discretionary review will be required to determine consistency with the CAP Consistency Checklist (see Appendix D).
- Local action on climate change cannot be addressed insularly by one agency or community, but requires active and ongoing partnerships between residents, businesses, the County, and other agencies and organizations in the region. On a community-wide level, individuals and businesses can play an important role in combating climate change. By changing habits to consume less energy; produce less waste through recycling, conserve water, and compost; and drive less by choosing to carpool, take transit, or walk and bike more frequently, individuals and businesses can work towards reducing their carbon footprint. The combination of these small efforts can lead to better outcomes for the environment and the County.



CALIFORNIA DEPARTMENT OF WATER RESOURCES SUSTAINABLE GROUNDWATER MANAGEMENT OFFICE

Updates from the California Department of Water Resources' Sustainable Groundwater Management Office.

TODAY'S TOPICS November 30, 2018	
News	Upcoming Events
<ul style="list-style-type: none">• Draft Basin Boundary Modifications Released• Frequently Asked Questions Updated• Update on Basin Prioritization• Update on Alternatives• UC Davis SGMA Governance Survey	<ul style="list-style-type: none">• DWR Draft Basin Boundary Modifications Public Meeting: Dec. 11, 2018, at 1 p.m., in Sacramento.• California Water Commission Meeting: Jan. 16, 2019, at 9:30 a.m., in Sacramento.

NEW Draft Basin Boundary Modifications Released

The California Department of Water Resources (DWR) has released the Draft Basin Boundary Modifications. The modifications are a result of requests from local agencies to modify basins based upon scientific or jurisdictional reasons. To view Draft Basin Boundary Modifications results, click [here](#).

Public Comment

A public comment period on Draft Basin Boundary Modifications is open now through January 4, 2019. All public comments received throughout the process will be reviewed and evaluated before Final Basin Boundary Modifications results are announced in February 2019. To submit public comments, click [here](#).

Public Meetings

Public comments on Draft Basin Boundary Modifications can also be provided at the following public meetings.

[Draft Basin Boundary Modifications Public Meeting](#)

Tuesday, December 11, 2018, at 1 p.m.

California Natural Resources Agency

First Floor Auditorium

1416 9th St., Sacramento.

The meeting will be webcast live at 1:20 p.m. To view the live webcast, click [here](#).

Please RSVP for the meeting [here](#).

[California Water Commission Meeting](#)

Wednesday, January 16, 2019, at 9:30 a.m.

California Natural Resources Agency

First Floor Auditorium

1416 9th St., Sacramento

For questions, email sgmps@water.ca.gov.

NEW Frequently Asked Questions Updated

[Basin Boundary Modifications Frequently Asked Questions](#) have been updated.

NEW Basin Prioritization Update

Final Basin Prioritization for basins not affected by Basin Boundary Modifications is expected in early January 2019. Draft Basin Prioritization for modified basins is expected in February 2019, with final Basin Prioritization in May 2019. The [2018 SGMA Basin Prioritization Timeline](#) has been updated to reflect this.

NEW Alternatives Update

SGMO continues to prioritize review of Alternatives to Groundwater Sustainability Plans and recognizes the importance of this work to the submitting agencies. DWR expects to release assessments for each of the submitted Alternatives during the first quarter of 2019. If you have any questions or comments, please email Craig Altare at Craig.Altare@water.ca.gov.

NEW UC Davis SGMA Governance Survey

UC Davis Center for Environmental Policy and Behavior is conducting a voluntary survey, as a part of a research project, to understand local views and participation in the Groundwater Sustainability Plan (GSP) development process. UC Davis Center for Environmental Policy and Behavior has provided unique survey links to GSP coordinators. Please contact your GSP coordinator for the survey link if you are interested in participating. If you have any questions regarding the survey, please contact surveys@ucdavis.edu.

REMINDER Submit Your GSP Initial Notification

Groundwater sustainability agencies (GSA) are required to notify DWR, in writing, prior to initiating development of a GSP. GSAs must submit all applicable GSP initial notification information to DWR using the [SGMA Portal – GSP Initial Notification System](#). The SGMA Portal – GSP Initial Notification System also allows edits to be made to a previously submitted Initial Notification, including the ability to withdraw a submittal.

Also, remember, *“If the geographic area to be covered by the plan includes a public water system regulated by the Public Utilities Commission, the groundwater sustainability agency shall provide the written statement to the commission.”* See Water Code § 10727.8.

For more information, please see [Frequently Asked Questions on GSP Initial Notification Requirements](#) or contact the Regional Coordinators in DWR's four Regional Offices.

For assistance with the system, please email monica.reis@water.ca.gov.

Connect with Your Basin Point of Contact

DWR has designated Basin Points of Contact to assist local agencies and GSAs as GSPs are developed and implemented and to assist with applications for Technical Support Services and Facilitation Support Services. To determine your basin point of contact, please see the following links that provide maps and contact information:

[Northern Region](#)

[North Central Region](#)

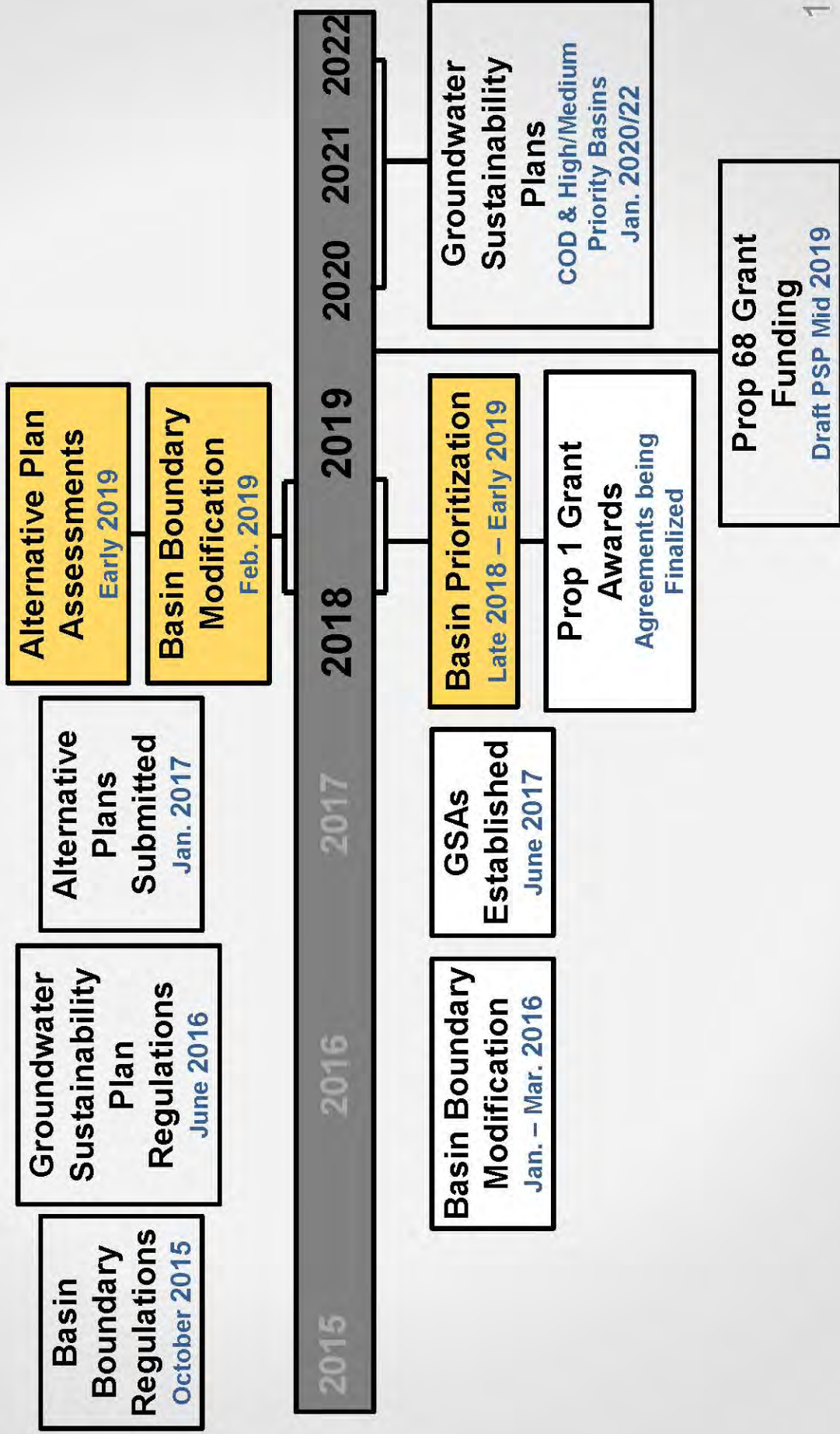
[South Central Region](#)

[Southern Region](#)

For regional inquiries, please contact sgmp_rc@water.ca.gov.

For general inquiries, please contact sgmps@water.ca.gov.

Sustainable Groundwater Management Program Timeline



Napa River Steelhead and Salmon Monitoring Program 2017-18 Report



November 2018



Figure 1. Napa River rotary screw trap



Figure 2. Napa River rotary screw trap location.



Watershed Information & Conservation Council

WICC

2019

Meeting Calendar

A Tradition of Stewardship
A Commitment to Service

Members:

- Susan Boswell
- Emma Chow
- Barry Christian
- Tosha Comendant
- Diane Dillon
- Marita Dorenbecher
- Geoff Ellsworth
- Jeri Gill
- David Graves
- Gary Kraus
- Jason Lauritsen
- Kenneth Leary
- Alfredo Pedroza
- Bill Pramuk
- Kimberly Richard
- Scott Sedgley
- Pamela Smithers

Alternates:

- Mariam Aboudamous
- Jeffrey Durham
- Doris Gentry
- Ryan Gregory
- Mary Koberstein
- Irais Lopez-Ortega
- Brent Randol

Staff:

- Patrick Lowe
Nat. Resources Conservation
Manager, Public Works
- Jeff Sharp
Principal Planner, Public Works

January

S	M	T	W	T	F	S
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February

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April

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December

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28	29	30	31			

— Meeting Details —

Time: 3:00 PM

Location: 2751 Napa Valley Corporate Drive, Building A, First Floor, Conference Rooms Napa CA 94558

These are public meetings
All are welcome to attend

Time and location may change
as directed by the Council

○ - Regular Meeting Dates ○ - Reserved Optional Meeting Dates

www.napawatersheds.org