

# Watershed Information Center & Conservancy

of Napa County

### **Board of Directors**

Susan Boswell Diane Dillon Marita Dorenbecher Warren Flint Michael Haley Mitchell Klug Gary Kraus Jason Lauritsen Kenneth Leary Mark Luce Marc Pandone Matt Pope Jeff Reichel Scott Sedgley Pamela Smithers Rita Steiner Peter White

### Alternate

Keith Caldwell

### **Staff**

Patrick Lowe, Secretary Natural Resources Conservation Manager, Dept. Public Works

Jeff Sharp, Principal Planner, Dept. Public Works

Robert C. Martin, Legal Counsel Deputy Counsel, County Counsel's Office

804 First Street, Napa, CA 94559-2623

Tel: 707-259-8600

info@napawatersheds.org

# **AGENDA**

# REGUALR BOARD MEETING

Thursday, January 23, 2014, 4:00 p.m.

2nd Floor Conference Room, Hall of Justice Building, 1125 Third Street, Napa CA

# 1. CALL TO ORDER & ROLL CALL (Vice-Chair)

Welcome to **Pamela Smithers** and **Michael Haley**, newly appointed Public at Large representatives, followed by roundtable of introductions by the Board.

### 2. APPROVAL OF ACTION MINUTES

Meeting of November 21, 2013 (Vice-Chair) (2 min)

# 3. PUBLIC COMMENT

In this time period, anyone may comment to the Board regarding any subject over which the Board 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 Board as a result of any item presented at this time. (Vice-Chair)

# 4. DISCUSSION AND ACTION:

- a. **Election of Chair and Vice-Chair** for 2014 (per Bylaws§ II.A.) (Board; WICC Staff) (5 min)
- b. Discussion and **adoption of 2014 Meeting Calendar** (per Bylaws§ III.A.) (Board; WICC Staff) (5 min)

# 5. UPDATES, REPORTS AND DISCUSSION

- a) Update on Napa County **Groundwater Resources Advisory Committee** (GRAC) (WICC Staff) (5 min)
- b) Report on Napa County water supplies, status of drought conditions and drought preparedness planning (Phil Miller, Napa County Flood Control and Water Conservation District) (10 min)

(cont.)

- c) Report on **county-wide water conservation programs** (Pat Costello, City of Napa Water Division) (10 min)
- d) Update on **Integrated Regional Water Management Planning** (IRWMP), upcoming Prop. 84 Round 3 workshops, call for regional projects and grant funding deadlines (WICC Staff) (10 min)
- e) Update on **Regional/State Water Board policy and regulatory programs**, including: Sediment TMDL and Vineyard Waiver, de-listing the Napa River for nutrient pollution, State Board workshop on groundwater to identify and prioritize statewide protection actions, and others (WICC Staff) (10 min)
- f) Update on scoping of a watershed monitoring program (WICC Staff) (5min)
- g) Other reports and updates (WICC Staff; Board)

# 5. PRESENTATIONS AND DISCUSSION

- a) Presentation on **Wildfire in the 21st Century California: New and Old Problems**; an overview of emergent wildfire issues, including changes in natural fire regimes, increasing human conflicts with modern era fire patterns, and managing for wildland health and ecosystem function in a complicated world (Dave Sapsis, CAL FIRE, Fire and Resource Assessment Program) (20 min)
- b) Presentation on Napa River Spawning Gravel Study; a pilot monitoring project to assess spawning conditions for steelhead and salmon, focusing on streambed scour and gravel permeability two indicators of conditions needed for incubating eggs and measured objectives in the Sediment TMDL (Jonathan Koehler, Senior Biologist, Napa County Resource Conservation District) (20 min)

# 6. INFORMATIONAL ANNOUNCEMENTS

Exchange of informational announcements and events (WICC staff, Board, and Public) (5-10 min)

- a) **2014 North Bay Watershed Association Conference** Water Resources Management: What, Where and How; Friday, April 11, 2014
- b) Other announcements and events

# 7. FUTURE AGENDA ITEMS

Discussion of possible items for future agendas (Board; WICC Staff) (5 min)

# 8. **NEXT MEETING** (Chair)

Regularly Scheduled Board Meeting: March 27, 2014 - 4:00 p.m.

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.









# Watershed Information Center & Conservancy

of Napa County

- 4a. Election of new Chair and Vice-Chair for year 2014 (per Bylaws§ II.A.) (Board; WICC Staff)
- 4b. Discussion and adoption of 2014 Meeting Calendar (per Bylaws§ III.A.) (Board; WICC Staff)

# EXCERPT FROM THE BYLAWS OF THE WICC BOARD

# Excerpt regarding election of officers:

- **II. OFFICERS.** The officers of the WICC Board shall be the Chair, Vice-Chair and Secretary, chosen as follows:
  - A. Time of Election of the Chair and Vice-Chair.

At the first organizational meeting and thereafter at the WICC Board's annual organizational meeting, the membership of the WICC Board shall elect the Chair and Vice-Chair from among themselves.

# Excerpt regarding adoption of yearly calendar:

# III. MEETINGS

# A. Date of Regular Meetings.

... the WICC Board shall adopt at the first meeting of the WICC Board, of each calendar year. Notwithstanding the foregoing, any regularly scheduled meeting of the WICC Board may be canceled by majority vote or, if there is not a quorum, be adjourned by the Chair or Secretary in the manner set forth in Section III(G) of these by-laws.

# <u>WATERSHED INFORMATION CENTER AND CONSERVANCY OF NAPA COUNTY (WICC)</u> 4 year term

Name (District)	Representing	Date of Appointment	Term Expires
Mitchell Klug (5)	Napa Co. Resource Conservation Dist.	9-14-10	8-2014
Jason Lauritsen (4)	Public At Large	9-14-10	8-2014
Gary Kraus (3)	City Council - Calistoga	3-1-11	11-2014
Peter White (3)	City Council – St. Helena	3-1-11	11-2014
Kenneth Leary (5)	City Council – American Canyon	4-16-13	11-2014
Matt Pope (5)	Conservation, Development & Planning	1-16-13	12-2013
John Reichel (1)	Napa County Land Trust	9-18-12	8-2016
Rita Steiner	Natural Resource Conservation Service	9-18-12	8-2016
R. Warren Flint (4)	Public At Large	9-18-12	8-2016
Scott Sedgley (4)	City Council – Napa	1-15-13	12-2016
Marita Dorenbecher	Town Council – Yountville	3-20-12	11-2014
Mark Luce (2)	Board of Supervisors	1-8-13	12-2016
Diane Dillon (3)	Board of Supervisors	1-11-11	12-2015
Keith Caldwell (5)	Board of Supervisors, Alternate	1-8-13	12-2016
Marc V. Pandone (3)	Public At Large	10-22-13	8-2017
Michael Haley (3)	Public At Large	12-10-13	8-2017
Susan Boswell (3)	Public At Large	10-22-13	8-2017
Pamela Smithers (3)	Public At Large	12-10-13	8-2017

Meets fourth Thursday of every month at 4:00 p.m. in the Hall of Justice. Liaison/Dept. Contact – Jeff Sharp (Water Resources Div., Dept. of Public Works) (707) 259-5936

The WICC Board serves as an advisory committee to Napa County Board of Supervisors. The role of the WICC is to assist the Board of Supervisors in their decision-making process and serve as a conduit for citizen input by gathering, analyzing and recommending options related to the management of watershed resources. In that capacity, the WICC has a responsibility to publicly evaluate and discuss matters they have been requested to review and comment upon by the Board of Supervisors. The Board of Supervisors has charged the WICC (under Resolution 02-103 and through verbal direction) with making recommendations to the Board of Supervisors on matters relating to watershed restoration projects and resource protection activities, coordination of land acquisition, and development of a long-term watershed resource management program providing public outreach and education, monitoring coordination, inventory and assessment, and data management.

# **Commission Contact and Liaison:**

Jeff Sharp Napa County Dept. of Public Works 804 First St., Napa CA, 94559-2623 (707) 259-5936 Jeff.Sharp@countyofnapa.org



A Tradition of Stewardship A Commitment to Service

# WICC Board of Directors

# 2014 Meeting Calendar

# **Members:** Susan Boswell **Diane Dillon** Marita Dorenbecher Warren Flint Michael Haley Mitchell Klug **Gary Kraus** Jason Lauritsen Kenneth Leary **Mark Luce Marc Pandone Matt Pope** Jeff Reichel Scott Sedgley **Pamela Smithers Rita Steiner**

## Alternate: Keith Caldwell

**Peter White** 

# Staff: **Patrick Lowe Natural Resources Conservation Manager Public Works**

Jeff Sharp **Principal Planner Public Works** 

**Robert Martin Legal Counsel County Counsel's Office** 

### **Meeting Details**

Time: 4:00 PM

Location: 2nd Flr. Conference Room Hall of Justice Building 1125 Third St., Napa CA

These are public meetings, all are welcome to attend.

Time and location may change as directed by the Board.

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- Regular Meeting Dates Note: additional meetings may be scheduled as needed

### **GRACs Work** Supervisors **April 2014** to Board of Recomms Conclude Final Sustainability Updates & GW Ord Objectives Outreach February Updates WAA 2014 Ŋ WAA/Ad-Hoc Sustainability Objectives December Outreach Updates Updates 2013 <u></u>8 WAA Updates Sustainability Objectives & Ad-Hoc Outreach Updates October 2013 <August to Meeting **GRAC-**WICC Joint Ed/Outreach Sustainability **GW Ordin** Updates Updates Updates Ad-Hoc WAA 2013 June **GW Ordin** Outreach Activities Updates Updates (cont'd) April 2013 **Work Plan** LSCE Hydro-Conditions **GW Ordin GW Data** Outreach Schedule (Part II) Updates Mgmt (Intro) February 2013 LSCE Hydro-Condition & Broch/Info **GWM Plan** Recharge (Part I) Outreach Adoption January 2013 Data Mgmt/ **GWM Plan** Next steps> **Work Plan** Disclosure **Broch/Info** Outreach AOIs October 2012 **GW Monitor-**Adopt Comm **Broch/Info** Outreach -Ed Plan Plan(1-7) August 2012 Joint GRAC-Meeting WICC 2012 **GW Monitor-**Hydro Cond. Mission St Comm/Ed Concept. Plan(1-3) Adopt June 2012 Outline of GW Outreach/Ed **MST Update** Monitoring Data Mgmt/ Well Conf Sonoma County 2012 April Comm/Ed Plan Scope of Work **GW Concepts GW Program** Well Demo Consultant February 2012 Outreach/Ed Background **GW Study CASGEM** December 2011 Welcome/Intro 1st Meeting Organization Background **GW Study** of **GRAC** October 2011

GRA Committee





# San Francisco Bay Regional Water Quality Control Board

# NOTICE OF MEETING BOARD MEMBER FIELD TOUR OF NAPA VALLEY VINEYARDS

Wednesday, January 29, 2014 10:00 a.m.

Meeting Location: 140 Anderson Road, Napa, CA 94558

**NOTICE IS HEREBY GIVEN** that a Board member field tour of vineyard operations at three Napa Valley vineyards will occur on January 29. The purpose of the field tour is to inform Board members on the types of management practices used at vineyards to protect water quality. A quorum of the Board may be present at the tour stops. There will be no action or voting taking place during the tour. The tour is for educational purposes only and discussions will be about vineyard management practices. The field tour will begin at the time and location specified above.

# INSTRUCTIONS AND ITINERARY FOR TOUR PARTICIPATION

Members of the public are invited to participate in the tour but must provide their own transportation, lunch, and refreshments. The tour itinerary includes visits to three vineyards.

Members of the public are not required to RSVP in order to participate in the public meeting; however, to facilitate coordination and planning of the tour, persons wishing to attend and those requiring accommodation for special needs are encouraged to contact Anya Starovoytov, at <a href="mailto:Anya.Starovoytov@waterboards.ca.gov">Anya.Starovoytov@waterboards.ca.gov</a>, in advance of the tour. The itinerary provides cell phone contact information for the day of the tour, but some facilities may not have cell coverage. Participants are therefore encouraged to arrive at each location by the scheduled time.

For more information, please contact Anya Starovoytov at (510) 622-2506 or Anya.Starovoytov@waterboards.ca.gov.

# BOARD MEMBER FIELD TOUR OF NAPA VALLEY VINEYARDS

Itinerary and Directions Wednesday, January 29, 2014

# Times are approximate and subject to change.

10:00 am	Meet at 140 Anderson Road, Napa, CA 94558  Route from I-80 East: Exit CA-37 west, Exit CA-29/Sonoma  Blvd., Right at CA-29/Sonoma Blvd., Right on CA-221, Right at  Anderson Rd. (Michelle Benvenuto, (707) 738-4847 - cell)
11:30 am	Depart 140 Anderson Road
11:30 am – 12:45 pm	Lunch Break
12:45 pm	Arrive at 8300 St. Helena Hwy., Rutherford, CA 94573  Route from 140 Anderson Road: South on CA-221, Right at CA-29 north, Travel 17.5 miles. Location is on the right.  (Jim Ponton, (510) 421-7700 - cell)
1:45 pm	Depart for 1761 Atlas Peak Road, Napa, CA 94558  Route from 8300 St. Helena Hwy.: South on CA-29, Left at Oakville Cross Road, Right at Silverado Trail, Left at Hardman Ave., Left at Atlas Peak Road. (Jim Ponton, (510) 421-7700 - cell)
2:05 pm	Arrive at 1761 Atlas Peak Road, Napa, CA 94558
3:05 pm	End of Tour





# San Francisco Bay Regional Water Quality Control Board

December 16, 2013

# **Notice of Availability for Comment:**

# Proposed revisions to the 303(d) List of Impaired Water Bodies in the San Francisco Bay Region, Napa River and Sonoma Creek watersheds

This notice solicits public comment on two proposed revisions to the list of impaired waters under Section 303(d) of the Federal Clean Water Act (CWA). The proposed revisions are specific to the Napa River and Sonoma Creek, which are under the jurisdiction of the San Francisco Bay Regional Water Quality Control Board (Water Board).

The Federal Clean Water Act requires that each state develop a list of impaired water bodies and associated pollutants ("303(d) list"). In California, this list sets the Water Board's agenda for action to achieve or maintain water quality standards. The proposed revisions and Tentative Resolution would remove listed impairments by nutrients (primarily nitrogen and phosphorus) for the freshwater portions of the Napa River and Sonoma Creek.

The proposed revisions are available for downloading and public review and comment at <a href="http://www.waterboards.ca.gov/sanfranciscobay/public notices/#basin">http://www.waterboards.ca.gov/sanfranciscobay/public notices/#basin</a>. The public comment period will close at 5 p.m. on January 15, 2014.

The Water Board will hold a public hearing as described below to receive public comment on the delisting of these two waters from the 303(d) list of impaired water bodies. At this hearing, the Board will consider approval of these two proposed listing changes and adoption of a Resolution to the State Water Resources Control Board in support of these recommendations.

DATE: February 12, 2014

TIME: 9:00 a.m. (approximate)

LOCATION: Elihu M. Harris State Building

First Floor Auditorium 1515 Clay Street Oakland, CA 94612

STAFF CONTACT: Kevin Lunde

San Francisco Bay Regional Water Quality Control Board

1515 Clay Street, Suite 1400

Oakland, CA 94612 510.622.2431 (ph.) 510.622.2460 (fax)

JOHN MULLER, CHAIR | BRUCE H. WOLFE, EXECUTIVE OFFICER

1515 Clay St., Suite 1400, Oakland, CA 94612 | www.waterboards.ca.gov/sanfranciscobay



# klunde@waterboards.ca.gov

# Submitting comments

The 30-day public comment period for the Tentative Resolution and supporting staff report will begin on December 16, 2013, and **will end at 5:00 p.m. on January 15, 2014**. All written comments on the proposed amendment are due by this date to the staff contact identified above. Additionally, all evidence, testimony, and exhibits to be offered at the hearing must be submitted in writing by this date to the above staff contact. Non-evidentiary policy statements to be made at the hearing need not be submitted in advance.

Any proposed changes to the publicly noticed documents and staff's responses to written comments submitted before the close of the comment period will be posted at <a href="http://www.waterboards.ca.gov/sanfranciscobay/water">http://www.waterboards.ca.gov/sanfranciscobay/water</a> issues/programs/TMDLs/303dlist.shtml.

The Water Board will receive oral public testimony on the proposed amendment at the hearing. At the conclusion of the hearing, the Water Board will consider adoption of the Tentative Resolution. Alternatively, in response to written comments and testimony received, the Water Board may recommend that staff make changes to the Tentative Resolution, which would be presented for its consideration at a subsequent hearing.

The public hearing will be conducted in accordance with the California Code of Regulations, title 23, section 649.3. Time limits may be imposed on oral testimony at the public hearing; groups are encouraged to designate a spokesperson. All exhibits presented at the hearing, including charts, graphs, and other testimony must be left with the Water Board. They will become part of the administrative record.

A map and directions to the hearing are available online at <a href="http://www.waterboards.ca.gov/sanfranciscobay/about\_us/directions.shtml">http://www.waterboards.ca.gov/sanfranciscobay/about\_us/directions.shtml</a>. The location of the hearing is accessible to persons with disabilities. Individuals who require special accommodations are requested to contact Executive Assistant Angela Tsao at (510) 622 2399 or <a href="mailto:Angela.Tsao@waterboards.ca.gov">Angela.Tsao@waterboards.ca.gov</a>, at least five (5) working days before a meeting. TTY users may contact the California Relay Service at 1-800-735-2929 or voice line at 1-800-735-2922.

Bruce H. Wolfe Executive Officer



# Napa County Flood Control and Water Conservation District

# PHILLIP M. MILLER, P.E. DISTRICT ENGINEER

January 9, 2014















Kevin Lunde
San Francisco Bay Regional Water Quality Control Board
1600 Clay Street, Suite 1400
Oakland, CA 94612

Subject: Comment Letter – Proposed Revisions to the 303(d) list of Impaired Water Bodies in the San Francisco Bay Region, Napa River and Sonoma Creek Watersheds

Dear Mr. Lunde:

Thank you for the opportunity to comment on the proposal to remove freshwater portions of the Napa River and Sonoma Creek from the 303(d) list for nutrients.

We very much appreciate the work undertaken by staff of the Surface Water Ambient Monitoring Program (SWAMP) as well as staff of the San Francisco Estuary Institute over the last decade to collect and evaluate the copious amounts of data which led to the proposed de-listing.

We concur with the Waterboard's conclusion that the weight of evidence clearly demonstrates that Water Quality Objectives are being met and support the de-listing. More importantly, we are very pleased to know that all the beneficial uses which could be affected by nutrients are being supported within the Napa River and consider the de-

listing an important milestone that recognizes the success of our many water quality improvement efforts in Napa County.

Sincerely,

Phillip M. Miller, PE

District Engineer





### State Water Resources Control Board

# NOTICE OF PUBLIC WORKSHOP

# **GROUNDWATER CONCEPT PAPER**

Wednesday, January 22, 2014 – 9:00 a.m.
Joe Serna Jr. - Cal/EPA Headquarters Building
Coastal Hearing Room
1001 I Street, Second Floor
Sacramento, CA 95814

**NOTICE IS HEREBY GIVEN** that the State Water Resources Control Board (State Water Board) will hold a public workshop to consider public input on a discussion draft Groundwater Concept Paper at the time and location noted above. This will be an informational workshop only and no State Water Board action will be taken.

# **BACKGROUND**

On October 8, 2013, the State Water Board released for public review a discussion draft groundwater concept paper. The draft concept paper is intended to serve as a starting point to identify and prioritize groundwater protection actions that the Water Boards will carry out over the next five years. The purpose is to ensure that the Water Boards effectively use their authorities and resources to address the State's most pressing groundwater challenges, and to complement and support groundwater management efforts occurring at the local level.

The concept paper proposes a framework for current groundwater protection efforts of the Water Boards and other entities, and suggests potential future actions that the Water Boards and others could pursue to promote effective groundwater management that supports beneficial uses over the long-term given the growing pressures of population growth, land use, demands on water supply, drought, and climate change impacts.

The State Water Board held stakeholder listening sessions during October, November, and December 2013 and solicited written comments on the draft concept paper. Written comments were due by December 18, 2013.

# **AVAILABILITY OF DOCUMENTS**

The discussion draft groundwater concept paper, and the comments received by the written comment deadline, may be viewed and downloaded from the State Water Board's website at: <a href="http://www.waterboards.ca.gov/water">http://www.waterboards.ca.gov/water</a> issues/programs/groundwater/workplan.shtml.

# **WORKSHOP OVERVIEW**

At this workshop, invited panelists will give presentations on fundamental groundwater issues, followed by public comments and discussion on the draft concept paper. The State Water Board is interested in receiving public input on the relevance of the draft concept paper's proposed framework, and existing and potential future groundwater management actions. In particular, the State Water

Board is interested in following up on the written comments received, including questions such as the following:

- 1. How should local and regional entities be held accountable for implementing effective groundwater planning and management, and what criteria should be used to determine if local management is sufficient?
- 2. What tools are needed for local and regional entities to develop and implement effective groundwater management, and what additional authorities, if any, are needed at the local and regional level?
- 3. Should State actions focus on unmanaged basins, or both managed and unmanaged basins?
- 4. What are the effective governance models that should be pursued, and what approaches could be taken to coordinate groundwater management among multiple jurisdictions that overly a single basin, or where no local or regional groundwater management entity exists?
- 5. How can the connection between surface water and groundwater be addressed in establishing thresholds, as well as in monitoring and governance?
- 6. What actions should the State Water Board carry out to best take advantage of the drinking water program reorganization?

To ensure a productive and efficient workshop, participants with common comments are encouraged to coordinate and provide oral comments as a group. For those wishing to organize and present comments as a group, please contact Gail Linck by January 16, 2013 at (916) 341-5285 to ensure that adequate time is allotted. So that all commenters have an opportunity to participate, presentations and questions may be time-limited.

# PARKING AND ACCESSIBILITY

There is a parking garage across from the Joe Serna Jr. Cal/EPA Headquarters Building with entrances on 10th and 11th Streets between "I" and "J" Streets, and metered parking spaces are in the vicinity of the building. For directions, more parking information, and a map, please go to: <a href="http://www.calepa.ca.gov/EPAbldg/location.htm">http://www.calepa.ca.gov/EPAbldg/location.htm</a>.

All visitors to the Cal/EPA Building are required to sign in and receive a badge at the Visitor Services Center located just inside the main entrance, to the left. Valid picture identification may be required. Please allow up to 15 minutes for receiving clearance before proceeding to the 2<sup>nd</sup> floor.

The Cal/EPA Building is accessible to persons with disabilities. Individuals who require special accommodations are requested to contact Michele Villados, at (916) 341-5881, at least five working days prior to the meeting date. Persons with hearing or speech impairments may contact us by using the California Relay Service Telecommunications Device for the Deaf (TDD): TDD to voice (800) 735-2929; voice to TDD (800) 735-2922.

# **ADDITIONAL INFORMATION**

Please direct questions about this notice to Gail Linck at (916) 341-5285 or <a href="mailto:gail.linck@waterboards.ca.gov">gail.linck@waterboards.ca.gov</a>, or to Eric Oppenheimer at (916) 445-5960 or <a href="mailto:eric.oppenheimer@waterboards.ca.gov">eric.oppenheimer@waterboards.ca.gov</a>.

January 13, 2014	Clanine Swinson
Date	Jeanine Townsend
	Clerk to the Board

# **Napa River Spawning Gravel Study**

Jonathan Koehler, Senior Biologist

The Napa County Resource Conservation District (RCD) just completed the first year of a pilot monitoring project to assess spawning conditions for steelhead and salmon in the Napa River watershed. This study, which is funded by the California State Water Resources Control Board and the US EPA, focuses on streambed scour and gravel permeability - two indicators of conditions for incubating eggs. Because of their biological significance, the State established numeric targets for these two parameters in the total maximum daily load, or TMDL, for sediment in the Napa River. The purpose of this project is to develop a monitoring strategy for collecting these types of data and then to conduct pilot monitoring to test the methods and see what the initial results suggest.



Installing a scour chain.

So, what are gravel permeability and streambed scour? Simply put, permeability is a measure of how easily water can flow through the streambed, and scour is the depth to which the streambed scours away and fills back in during a typical winter storm. Since steelhead and salmon bury their eggs in streambeds, they are at risk of being washed away if deep scour occurs. The TMDL requires that the maximum amount of scour measured in all potential Napa River watershed spawning sites be less than 15cm (~6 inches). In addition, inter-gravel flow

(permeability) is vital for bringing fresh, oxygenated water to developing fish eggs and for carrying waste products away. The rate at which water is able to flow through the gravel directly relates to the survival of incubating eggs, with higher flow rates corresponding to higher survival and vice-versa. The TMDL dictates that potential spawning locations in the Napa River watershed should have a median permeability value of at least 7,000 cm/hr, which translates into about 50 percent or more of the eggs successfully hatching and emerging as fry.

In fall 2012 and winter 2013, RCD staff along with our partner, Stillwater Sciences, measured permeability at 80 sites in the mainstem Napa River and 80 sites in tributary streams, including Ritchey, York, Sulphur, and Carneros Creeks. Permeability was measured with a backpack-mounted vacuum pump, which draws water through a perforated pipe driven into the streambed. A crew of two people operates the pump and measures the amount of time taken to draw a known volume of water through the gravel and into the pipe. Of the 80 tributary sites, slightly less than half achieved the TMDL target of 7,000 cm/hr. In the mainstem, 21 of the 80 measurements achieved the TMDL target. There was considerable variation between streams and amongst sites, so the RCD is planning to repeat the measurements again in 2013 and 2014 for comparison.

Streambed scour was measured at 20 sites in the mainstem Napa River during the 2012/13 water year. RCD and Stillwater staff buried 40 chains vertically in the streambed at potential spawning locations and carefully measured the exposed lengths of chain left on the surface. We then made a series of follow-up visits to recover the chains and remeasure the exposed lengths. By comparing the original exposed length to subsequent measurements, we were able to document the depth to which the bed had been scoured away or filled in. The average scour value for the entire monitoring effort was 5.2 cm (2 inches) with a standard error of 3.7 cm (1.5 inches). Assuming that the measurements from the recovered chains are representative of all sites, the mean depth of scour/deposition achieved the TMDL target.



Recovering a buried scour chain from the river.

The primary challenge encountered during the pilot monitoring effort was the low number of recovered scour chains: only 21 of 40 chains were recovered, despite extensive searching. The low recovery rate was likely caused by high flow conditions during the study. A series of large storms occurred in fall 2012 with peak flows on November 30 and December 23 shortly after we installed the chains. These flows were similar in magnitude - both were approximately 5-year storm events. The TMDL, however, specifies that scour targets are applicable for 2-year storm events and less. Therefore, RCD is re-installing chains at the same sites in the river again this winter in hopes of measuring scour during a more "normal" flow year for comparison.

We would like to thank the San Francisco Regional Water Quality Control Board for helping to coordinate and fund this project, as well as all of the landowners that granted us access. A full report is available at <a href="https://www.naparcd.org">www.naparcd.org</a>.

Please Join Us for the North Bay Watershed Association Conference

# Water Resources Management: What, Where and How

# **Conference Objective**

The conference will bring together key participants from around the North Bay to focus on how we can work together to manage our water resources.

# **Who Will Attend?**

Public officials and leaders in environmental organizations, science and business

# **Keynote Speakers**

Mark Cowin, Director, CA Department of Water Resources Jared Huffman, U.S. Congressman, California 2nd District Felicia Marcus, Chair, State Water Resources Control Board

# **How to Register**

Early Bird rate: \$85 per person through January 31, 2014 \$95 as of February 1, 2014

Register online now: bitly.com/2014nbwa

**Sponsor Opportunities** are available!

# Friday, April 11, 2014

# **StoneTree Golf Club**

9 StoneTree Lane Novato, CA 94945

# 8:00 AM to 4:30 PM

8:00AM Registration 9:00AM Opening Presentation 12:20PM Lunch 3:30PM Wine Tasting

# Contact

- NBWA Assistant to Executive Director: Elizabeth Preim-Rohtla at (415) 945-1475 or nbwa@marinwater.org
- Conference Coordinator:
   Marinda Freeman, MF Productions,
   at (415) 924-9145 or marinda@mfproductions.net



NORTH BAY WATERSHED ASSOCIATION nbwatershed.org Please Join Us for the North Bay Watershed Association Conference

8:00 AM - 4:30 PM

9 StoneTree Lane

**Novato, CA 94945** 

StoneTree Golf Club

# Water Resources Management: What, Where and How

# **Program**

8:00 AM Registration, Continental Breakfast and Networking

9:00 AM WELCOME AND INTRODUCTION

Jack Gibson Chair, NBWA; Director, MMWD

**MORNING KEYNOTE SPEAKER** 

Felicia Marcus Chair, SWRCB: California Water: Era of Decision

9:30 AM PANEL - What's New in Water Supply?

**Heather Cooley** Water Program Co-Director, Pacific Institute:

Water Supply Innovations

Manisha Kothari Project Manager, SFPUC: Planning Regionally:

Status of the Bay Area Regional Desalination Project

Tim Parker President, Parker Groundwater: California GW

Management – Status Statewide and Sonoma Valley Example

David Graves Co-Founder, Saintsbury Winery: Agricultural Perspective

on Water Resource Management

10:30 AM QUESTIONS

10:50 AM BREAK

Friday, April 11, 2014 11:05 AM PANEL - How Do Integrated Projects Work?

**Jill Techel** Mayor of Napa: Business Perspective on Napa River Restoration **Jay Jasperse** Chief Engineer, Sonoma County Water Agency

Connecting the Dots: Recycled Water, Habitat and Groundwater

**Debbie Stutsman** Town Manager, San Anselmo: Ross Valley Flood

Protection and Watershed Program, a Partner's Perspective

Sally Gale Chileno Valley Ranch: My Backyard: Ranching and Tending

to Walker Creek's Restoration

12:05 PM QUESTIONS

12:20 PM LUNCH - Buffet Service

12:45 PM LUNCHEON KEYNOTE SPEAKER

Jared Huffman Congressman, California 2nd District

1:15 PM BREAK

1:30 PM AFTERNOON KEYNOTE SPEAKER

Mark Cowin, Director, DWR: California Water Challenges

2:00 PM PANEL - Where's the Money?

**John Coleman** ACWA President: *State Funding: State Water Bond* **Sam Schuchat** Executive Officer, State Coastal Conservancy

San Francisco Bay Restoration Authority

**Marc Holmes** Bay Restoration Program Director, The Bay Institute
Federal Funding: San Francisco Bay Restoration Act, EPA, BOR, WRDA

Linda J. LeZotte Director, SCVWD: Local Funding: Measure B

3:00 PM QUESTIONS

3:30 PM WINE TASTING RECEPTION



NORTH BAY WATERSHED ASSOCIATION

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