



**BOARD OF DIRECTORS  
SAN LORENZO VALLEY WATER DISTRICT  
AGENDA  
MARCH 7, 2019**

**MISSION STATEMENT:** Our Mission is to provide our customers and future generations with reliable, safe and high quality water at an equitable price; to create and maintain outstanding service and community relations; to manage and protect the environmental health of the aquifers and watersheds; and to ensure the fiscal vitality of the San Lorenzo Valley Water District.

Notice is hereby given that a meeting of the Board of Directors of the San Lorenzo Valley Water District will be held on Thursday, March 7, 2019 at 5:30 p.m., SLVWD, 13057 Highway 9, Boulder Creek, CA 95006.

*In compliance with the requirements of Title II of the American Disabilities Act of 1990, the San Lorenzo Valley Water District requests that any person in need of any type of special equipment, assistance or accommodation(s) in order to communicate at the District's Public Meeting can contact the District Secretary's Office at (831) 430-4636 a minimum of 72 hours prior to the scheduled meeting.*

*Agenda documents, including materials related to an item on this agenda submitted to the Board of Directors after distribution of the agenda packet, are available for public inspection and may be reviewed at the office of the District Secretary, 13060 Highway 9, Boulder Creek, CA 95006 during normal business hours. Such documents are also available on the District website at [www.slvwd.com](http://www.slvwd.com) subject to staff's ability to post the documents before the meeting.*

1. Convene Meeting/Roll Call

2. Additions and Deletions to Closed Session Agenda:

*Additions to the Agenda, if any, may only be made in accordance with California Government Code Section 54954.2 (Ralph M. Brown Act) which includes, but is not limited to, additions for which the need to take action is declared to have arisen after the agenda was posted, as determined by a two-thirds vote of the Board of Directors (or if less than two-thirds of the members are present, a unanimous vote of those members present).*

3. Oral Communications Regarding Items in Closed Session:

*This portion of the agenda is reserved for Oral Communications by the public for items which are on the Closed Session portion of the Agenda. Any person may address the Board of Directors at this time, on Closed Session items. Normally, presentations must not exceed five (5) minutes in length, and individuals may only speak once during Oral Communications. No actions may be taken by the Board of Directors on any Oral Communications presented; however, the Board of Directors may request that the matter be placed on a future agenda. Please state your name and town/city of residence at the beginning of your statement for the record.*

4. Adjournment to Closed Session

*At any time during the regular session, the Board may adjourn to Closed Session in compliance with, and as authorized by, California Government Code Section 54956.9 and Brown Act, Government Code Section 54950. Members of the public will be given the opportunity to address any scheduled item prior to adjourning to closed session.*

- a. CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION  
Government Code Section 54956.9(d)(1)  
Holloway v. Showcase Realty Agents, Inc. et al.  
(Santa Cruz Superior Court Case No. CV180394; 6th District Court of Appeal Case Nos. H043704, H043492).
- b. CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION  
Government Code Section 54956.9(d)(1)  
Vierra v. San Lorenzo Valley Water District, et al.  
(Santa Cruz Superior Court Case No. 18CV00890)
- c. CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION  
Government Code Section 54956.9(d)(1)  
DeBert v. San Lorenzo Valley Water District et al. (Santa Cruz County Superior Court Case No. 17CV02729).
- d. CONFERENCE WITH LEGAL COUNSEL- ANITICIPATED LITIGATION  
Government Code Section 54956.9(d)(2)  
One Case

Closed Session Note:

**The Brown Act prohibits the disclosure of confidential information acquired in a closed session by any person present and offers various remedies to address willful breaches of confidentiality. These include injunctive relief, disciplinary action against an employee, and referral of a member of the legislative body to the grand jury. It is incumbent upon all those attending lawful closed sessions to protect the confidentiality of those discussions. Only the legislative body acting as a body may agree to divulge confidential closed session information; regarding attorney/client privileged communications, the entire body is the holder of the privilege and only a majority vote of the entire body can authorize the waive of the privilege.**

5. Convene to Open Session at 6:30 p.m.

6. Report of Actions Taken in Closed Session

7. Additions and Deletions to Open Session Agenda:

*Additions to the Agenda, if any, may only be made in accordance with California Government Code Section 54954.2 (Ralph M. Brown Act) which includes, but is not limited to, additions for which the need to take action is declared to have arisen after the agenda was posted, as*

*determined by a two-thirds vote of the Board of Directors (or if less than two-thirds of the members are present, a unanimous vote of those members present).*

8. Oral Communications:

*This portion of the agenda is reserved for Oral Communications by the public for items which are not on the agenda. Please understand that California law (The Brown Act) limits what the Board can do regarding issues raised during Oral Communication. No action or discussion may occur on issues outside of those already listed on today's agenda.*

*Any person may address the Board of Directors at this time, on any subject that lies within the jurisdiction of the District. Normally, communication must not exceed five (5) minutes in length, and individuals may only speak once during Oral Communications.*

9. Unfinished Business: None

*Members of the public will be given the opportunity to address each scheduled item prior to Board deliberations. The President of the Board may establish a time limit for members of the public to address the Board on agenda.*

10. New Business:

*Members of the public will be given the opportunity to address each scheduled item prior to Board deliberations. The Chairperson of the Board may establish a time limit for members of the public to address the Board on agenda items.*

- a. ENVIRONMENTAL COMMITTEE PUBLIC MEMBER(S)  
APPOINTMENT(S) AND BUDGET & FINANCE RESIGNATION  
Discussion and possible action by the Board regarding the appointment of public member(s) to the Environmental Committee and B & F Committee resignation.
- b. BOARD MEMBER COMMITTEE ASSIGNMENTS  
Discussion and possible action by the Board regarding a review of Board member committee assignments.
- c. QUAIL HOLLOW NO. 5A & OLYMPIA 3 WELLS SOLE SOURCE  
PROCUREMENT FOR REHABILITATION  
Discussion and possible action by the Board regarding the sole source procurement for rehabilitation of Quail & Olympia wells.
- d. LEGAL PRESENTATION REGARDING SOCIAL MEDIA AND BROWN  
ACT  
Presentation by District Counsel on social media and Brown Act issues, followed by Board discussion and possible action.
- e. FINANCE AND BUSINESS SERVICES DEPARTMENT WORKSHOP  
Presentation by S. Hill, Director of Finance and Business Services on the State of the Department and Plan for the Future.

11. Consent Agenda:

*The Consent Agenda contains items which are considered to be routine in nature and will be adopted by one (1) motion without discussion. Any item on the consent agenda will be moved to the regular agenda upon request from individual Directors or a member of the public.*

- a. MINUTES FROM SPECIAL BOARD OF DIRECTORS MEETING  
JANUARY 23, 2019  
Consideration and possible action by the Board to approve minutes from the January 23, 2019 Special BoD meeting.
- b. MINUTES FROM BOARD OF DIRECTORS MEETING FEBRUARY 7, 2019  
Consideration and possible action by the Board to approve minutes from the February 7, 2019 BoD meeting.

12. Written Communication:

- o Letter from D. Ziel
- o Letter from J. Calden
- o Letter from N. Macy
- o Email from R. Brune
- o Email from P. Cordes

13. Informational Material: None

14. Adjournment

**Certification of Posting**

I hereby certify that on March 1, 2019 I posted a copy of the foregoing agenda in the outside display case at the District Office, 13060 Highway 9, Boulder Creek, California, said time being at least 72 hours in advance of the meeting of the Board of Directors of the San Lorenzo Valley Water District (Government Code Section 54954.2).

Executed at Boulder Creek, California on March 1, 2019.

\_\_\_\_\_  
Holly Hossack, District Secretary  
San Lorenzo Valley Water District



M E M O

TO: Board of Directors

FROM: District Manager

SUBJECT: SAN LORENZO VALLEY WATER DISTRICT  
ENVIRONMENTAL COMMITTEE OPENING(S) AND BUDGET  
& FINANCE RESIGNATION

DATE: March 7, 2019

RECOMMENDATION:

The District has an opening(s) on the Environmental Committee. It is recommended that the Board review the applications and fill the opening(s) on the committee.

The Board of Directors made appointments to the Budget & Finance Committee on January 17, 2019. Lydia Hammack was appointed but does not wish to serve on the committee and has requested that she be removed.

BACKGROUND:

The District has 5 standing committees:

- Administration Committee
- Budget & Finance Committee
- Engineering Committee
- Environmental Committee
- Lompico Assessment District Oversight Committee

The committees consist of 2 Board Members and at least 1 public member, except the LADOC which consists of 5 public members residing within the Lompico Assessment District.

The Environmental Committee does not have a public member.

On January 25, 2019 the District advertised the opening(s) for the public member(s) on the Environmental Committee with a closing date for accepting applications of February 26, 2019. Attached are the applications that were received.

STRATEGIC PLAN:

Element 6.2 Increase Civic Understanding and Engagement

FISCAL IMPACT:

None

RECEIVED

Agenda: 3.7.19  
Item: 10a

DEC 11 2018

SAN LORENZO VALLEY  
WATER DISTRICT



# Committee Application Form

Thank you for your interest in participating in a SLVWD Committee.

Members of the public play a vital role in shaping the District and your willingness to contribute time and effort is greatly appreciated.

Please send your completed application to the District Secretary, 13060 Hwy. 9, Boulder Creek, CA 95006 or to [hmorrison@slvwd.com](mailto:hmorrison@slvwd.com).

## Personal Details

Name: Tina To Mr.  Mrs.  Miss  Ms.

Postal Address: 200 Chipmunk Hollow Rd, Boulder Creek CA 95006

Telephone: (Home) \_\_\_\_\_ (Mobile) 831-252-1534

E-Mail: tinamarieto@gmail.com

Committee you would like to serve on: Administrative Environmental

## Expectations

Be prepared to participate in a monthly Committee meeting (or quarterly for the Lompico Assessment District Oversight Committee). Learn about the water resources of our Valley. Participate in the rewarding experience of providing service to your community.

## Why You Want to Participate

Please use the back of this form to add more information and/or attach a resume

I have a masters degree in environmental science. I currently work in social science and I would like to use my earth science knowledge for public good. I think there should be more scientists in leadership roles.

# Tina Marie To

Email: [tinamarieto@gmail.com](mailto:tinamarieto@gmail.com) Mobile: +1(831) 252-1534

## EDUCATION

*Certificate of Bioinformatics, University of California at Davis, Genome Center (2018).*

*Masters of Science in Environmental Science (MS), University of Sydney (2017).*

*Bachelors: Law and Earth Science (BA), University of California at Santa Cruz/Berkeley (2010).*

## WORK EXPERIENCE

### ***Field Interviewer / Data Collection***

*National Opinion Research Center at University of Chicago. San Francisco Bay Area, California (May 2018 to present)*

Data collection for social science research with a focus on preschool children and childcare.

### ***Education Consultant***

*Various schools. San Francisco Bay Area, California (2012-2016, 4 years)*

Assisted schools with theatre and arts programs. Managed up to 50 students and/or volunteers at a time. Taught after school programs and aided in the classroom. Managed budgets and fulfilled administrative tasks.

### ***Human Resources Specialist***

*Target Stores. San Jose, California, USA (11/2016-01/2017).*

On-boarding of personnel. Raise morale, solve personnel problems, maintain confidential information. Seasonal.

### ***Post-graduate Research Assistant (Software Analyst) Intern***

*University of Technology Sydney – Climate Change Cluster. Sydney, Australia (05/2014-09/2014, five months).*

In-depth analysis of ten remote sensing softwares for viability with research programs. Analyzing multi-spectral and thermal images to determine drought stress. Image stitching, data analysis, and report writing. Processing of big data (~100Gb per process). UAV/drones field assistant. Software: ArcGIS, AgiSoft, Excel, GPS, Google Earth, and proprietary image stitching software.

### ***Political Advocate***

*Various Employers. California and Iowa (2007-2012, 5.5 years) Roles: Central Committee Member (elected office), Field Organizer, and Grassroots Campaigner.*

National presidential campaign and local ballot measures. Database management of tens of thousands of voters, organizing hundreds of constituents, cold calling, rallying supporters, political marketing, various kinds of research and voting on issues.

See <https://www.linkedin.com/in/tinato/> for more detail. References available.

FEB 03 2019

SAN LORENZO VALLEY  
WATER DISTRICT



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Please send your completed application to the District Secretary, 13060 Hwy. 9, Boulder Creek, CA 95006 or to hmorrison@slvwd.com.

## Personal Details

Name: ELAINE FRESCO Mr.  Mrs.  Miss  Ms.

Postal Address: 1221 FETHERSTON WAY, FELTON, CA 95018

Telephone: (Home) 831-335-0246 (Mobile) 213-503-8503

E-Mail: ecfresco@gmail.com

Committee you like to serve on: ENVIRONMENTAL COMMITTEE

## Expectations

Be prepared to participate in a monthly Committee meeting. Learn about the water resources of our Valley. Rewarding experience of providing service to your community.

## Why You Want to Participate

Please use the back of this form to add more information and/or attach a resume

*please see other side*

I would very much like to be a volunteer member of the Environmental Committee of the SLVWD. I am a retired Registered Nurse and Certified Nurse Midwife with a strong background in science and a long-standing interest in environmental issues.

My husband and I have lived in the San Lorenzo Valley for eight years and our property borders the Fall Creek Watershed. Living in this beautiful forest has made me more aware of the diversity and vitality of the land and the importance of protecting and preserving it.

We have goats, chickens, a large garden and a fruit tree orchard. We have incorporated healthy and responsible practices on our small farm with manure composting, vermicomposting, rain catchment tanks, gray water systems, and native plants. We have used mulching to preserve water and have created berms and swales to prevent water runoff. We have destroyed invasive non-natives and used natural methods of pest prevention.

As a volunteer with the SLVWD I would be a strong advocate for the watershed, its water, forests and wildlife, while at the same time working to ensure a healthy adequate supply of water for the residents of this valley. It is important to educate the public about the problems that challenge the health of our watershed and to enlist their cooperation in protecting our water supply. It is important that we protect our watershed from fire hazards and non-native plants that damage the soil and habitat. We need to protect our creeks and waterways from contamination and we need to prevent erosion. Keeping our watershed healthy is the best way to protect our water.

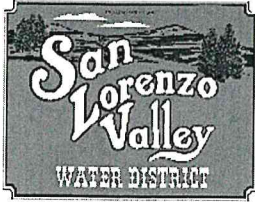
I have a lot to learn about the workings of the SLVWD and the watershed. By volunteering on the Environmental Committee I will have the opportunity to serve the community and learn more about our land and how to protect it.

Thank you,  
Elaine Fresco  
February 7, 2019



FEB 20 2019

SAN LORENZO VALLEY  
WATER DISTRICT



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Please send your completed application to the District Secretary, 13060 Hwy. 9, Boulder Creek, CA 95006 or to hmorrison@slvwd.com.

## Personal Details

Name: Kevin O'Connor Mr.  Mrs.  Miss  Ms.

Postal Address: 311 Fall Creek Dr. Felton, CA 95018

Telephone: (Home) \_\_\_\_\_ (Mobile) 831-421-2396

E-Mail: kevincoconnor@hotmail.com

Committee you like to serve on: Environmental

## Expectations

Be prepared to participate in a monthly Committee meeting. Learn about the water resources of our Valley. Rewarding experience of providing service to your community.

## Why You Want to Participate

Please use the back of this form to add more information and/or attach a resume

Thank you for the opportunity to apply to join the Environmental Committee of the SLVWD. I have been a resident of Felton for the past 10 years and really enjoy living in the Valley and raising my kids here. I'm an active member of the community, most recently assisting in the fundraising for the new Felton Library.

My education and professional experience make me a good fit for this committee. I have a BA from UCSC in Environmental Studies/Biology and a MS from San Diego State University in Marine Biology. I've worked for the past 10 years as a program manager at Moss Landing Marine Labs with the Central Coast Wetlands Group (CCWG). I work closely with regional and state partners to expand the wetland science and policy dialogue between researchers, resource managers, landowners and policy makers. My efforts support local research, the development of tools and programs to better manage wetland resources, and workshops that foster constructive problem solving among diverse stakeholders. Additionally, CCWG implements habitat restoration activities in the central Monterey Bay area, including wetlands, dunes, streams, and upland buffer zones. please see our website for more info: [www.centralcoastwetlands.org](http://www.centralcoastwetlands.org).

I've attached my resume for your review as well.

## Kevin C. O'Connor

Central Coast Wetlands Group @  
Moss Landing Marine Laboratories  
8272 Moss Landing Rd.  
Moss Landing, CA 95039

office: (831) 771-4495  
fax: (831) 632-4403  
email: koconnor@mlml.calstate.edu

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### Education:

Graduate: M.S. Biology (Marine Ecology), San Diego State University

Thesis: "Consequences of habitat disturbance and recovery to recruitment and the abundance of kelp forest fishes"

Graduated: December, 2007

Undergraduate: B.A. Environmental Studies and Biology, University of California, Santa Cruz. Graduated with College Honors: June, 2004

### Skills:

#### Project Management-

- Coordination between multiple organizations and agencies to complete collaborative tasks
- Organize and manage meetings in a wide range of venue types
- Work independently or in a group with attention to detail
- Develop and administer budgets on many simultaneously running grant-funded projects

#### Wetland Assessment-

- Trained CRAM Practitioner with extensive experience throughout all ecoregions of California on multiple wetland types (rivers, streams, episodic streams, depressions, vernal pools, perennial estuaries, bar-built estuaries)
- CRAM Trainer since 2007 for Riverine, Estuarine, Depressional, and Bar-built CRAM wetland types
- Assisted in the development of multiple CRAM wetland modules (streams, episodic streams, depressions, vernal pools, perennial estuaries, bar-built estuaries)
- Trained in Level 3 wetland assessment techniques (bioassessment, water quality, vegetation surveys using line-intercept, high-precision GPS mapping)

#### Wetland Restoration-

- Managed multiple wetland restoration projects in the Moss Landing area
- Focus on habitat enhancement, water quality improvement
- Work closely with local landowners, including farmers, to implement wetland BMPs on multiple properties in the Lower Salinas Watershed.

### Professional Experience:

**Dec. 2007-Current:** Program Manager, Central Coast Wetlands Group, Moss Landing Marine Labs, Moss Landing, CA

Duties: Write, manage and implement grants and contracts to assist in the development and coordinations of the State's wetland monitoring and assessment program, develop wetland assessment tools (CRAM, RipRAM, etc.), assess and report on wetland condition at locations around state, write regional management plans (IRWMP, SWRP, Climate Vulnerability), implement water quality improvement projects with local landowners, and to restore habitats including wetlands, dunes, streams and upland buffers.

**Oct. 2006 - Dec. 2007:** **Environmental Intern**, City of San Diego Environmental Services Department, San Diego, CA

Duties: administer and carry-out a grant of creek restoration work in Pacific Beach, CA (transient abatement, trash clean-up, design and placement of signs describing the habitat, non-native plant removal and revegetation), coordinate legislation analysis on bills pertinent to the department developed in Sacramento, compete a report on the history of waste disposal in the San Diego region since the time of European settlement, file and assist in analyzing of CEQA documents

**Aug. 2006 - May 2007:** **Teaching Associate**, San Diego State University, San Diego, CA

Duties: teach introductory biology laboratory to non-biology undergraduate students (molecular, cellular, organismal, ecology, evolution) by creating and presenting MS PowerPoint presentations of the weekly topics, answering questions related to the lab topics and keeping organization in the classroom

**June 2005 - Aug. 2007: Research Assistant, San Diego State Foundation, San Diego, CA**

Duties: Funded by a grant from the NOAA's Undersea Research Program (NURP), conduct an experiment on the effect of habitat disturbance on the density of juvenile and adult fishes in the kelp forest ecosystem, and to investigate size-dependant predation of recruit kelp bass in both the field and lab (includes fish and kelp identification surveys, general lab work, live specimen collection (both algae and fish), use of large fish aquaria, and small boat driving

**Sept. 2003 - June 2005: Lab Technician, National Marine Fisheries Service Santa Cruz Lab, Santa Cruz, CA**

Duties: juvenile rockfish aging (otolith technique), in charge of fish dissection for long range analysis of rockfish populations (otolith and gonad removal, data recording, etc.), assistant on monthly troll and long-line cruises for specimen collection, and conduct personal study on the recapture rate of tagged groundfish

#### **Publications/Reports:**

- Clark, R., and K. O'Connor. 2019. A systematic survey of bar-built estuaries along the California coast. *Estuarine, Coastal and Shelf Science*. Manuscript submitted for publication
- Largier, J., K. O'Connor, and R. Clark. 2018. Considerations for the Management of the Mouth State of California's Bar-built Estuaries. Prepared for the National Marine Fisheries Service
- Central Coast Wetlands Group (2018) Assessment of Select Estuaries of Marin County. Final Report to the Bay Area Regional Water Quality Control Board.
- Central Coast Wetlands Group (2016) Assessment and Management Prioritization Regime for the Bar-built Estuaries of San Mateo County. Final Report to the USFWS Coastal Program.
- Heady, Clark, O'Connor, Clark, Endris, Ryan, Stoner-Duncan (2015) Assessing California's Bar-built Estuaries Using the California Rapid Assessment Method. *Ecological Indicators*. Vol. 58, pp.300-310
- Heady, O'Connor, Kassakian, Doiron, Endris, Hudgens, Clark, Carter, and Gleason (2014) An Inventory and Classification of U.S. West Coast Estuaries. The Nature Conservancy, Arlington, VA. 81pp
- Langridge, Hartge, Clark, Arkema, Verutes, Prahler, Stoner-Duncan, Caldwell, Guerry, Ruckelshaus, Abeles, Coburn, & O'Connor (2014) Key lessons for incorporating natural infrastructure into regional climate adaptation planning. *Ocean and Coastal Management*. Vol. 95, pp. 189-197.
- Dayton, Kim, Jarrell, Oliver, Hammerstrom, Fisher, O'Connor, Barber, Robilliard, Barry, Thurber, Conlan (2013) Recruitment, Growth and Mortality of an Antarctic Hexactinellid Sponge, *Anoxycalyx joubini*, *PLoS ONE*. Vol. 8, Issue. 2.
- O'Connor and Clark (2013) Verification of the Depressional CRAM Wetland Module. Final Report to SFEI-ASC and California Natural Resources Agency. Agreement No. OCA10043.
- O'Connor and Clark (2013) Standardization of the CRAM Update Process, Manuals and Training Materials through the L2 Committee of the California Wetlands Monitoring Workgroup. Final Report to USEPA Region 9. Agreement No. CD-00T54301.
- Solek, Sutula, Stein, Roberts, Clark, O'Connor, & Ritter (2012) Determining the Health of California's Coastal Salt Marshes Using Rapid Assessment. *Wetland Policy and Science*, March, pp. 8-28.
- Clark, O'Connor, Clark, Stoner-Duncan, Ryan (2013) Using New Methodologies to Assess Bar-built Estuaries along California's Coastline. Final Report to USEPA Region 9. Agreement No. CD-00T20101.
- O'Connor, Clark, Clark (2011) Assessment of State Funded Wetland Restoration Projects in Region 3. Report to the SWRCB under agreement number 06-353-553-1
- O'Connor and Anderson (2010) Consequences of habitat disturbance to recruitment and the abundance of kelp forest fishes. *J Exp. Mar. Bio. Ecol.* 386:1-2 p.1-10
- Rey, O'Connor, Clark, Clark (2010) A Comparison of results between the California Monitoring and Assessment Program (CMAP) and the California Rapid Assessment Method for wetlands. Report to the SWRCB under agreement number 06-308-250-0



- Sutula, Collins, Clark, Roberts, Stein, Grosso, Wiskind, Solek, May, O'Connor, Fetscher, Grenier, Pearce, Robinson, Clark, Rey, Morrissette, Eicher, Pasquinelli, Ritter (2008) California's Wetland Demonstration Program Pilot - A final draft project report for review by the California Resources Agency. Technical Report 572. Southern California Coastal Water Research Project. Costa Mesa, CA.

**Group Membership:**

National Wetlands Monitoring and Assessment Working Group, USEPA, Washington DC

California Wetlands Monitoring Workgroup, SWRCB, Sacramento CA

California Estuary Monitoring Workgroup, SWRCB, Sacramento CA

Level 2 Committee of the CMMW, SWRCB, Sacramento CA

RECEIVED  
Agenda: 3.7.19  
Item: 40a

FEB 26 2019

SAN LORENZO VALLEY  
WATER DISTRICT



# Committee Application Form

Thank you for your interest in participating in a SLVWD Committee.

Members of the public play a vital role in shaping the District and your willingness to contribute time and effort is greatly appreciated.

Please send your completed application to the District Secretary, 13060 Hwy. 9, Boulder Creek, CA 95006 or to hmorrison@slvwd.com.

## Personal Details

Name: John Supp Mr.  Mrs.  Miss  Ms.

Postal Address: 255 Harmon Street Boulder Creek, CA 95006

Telephone: (Home) \_\_\_\_\_ (Mobile) 650-646-1524

E-Mail: JohnCSupp@gmail.com

Committee you like to serve on: PUBLIC COMMITTEE MEMBER

## Expectations

Be prepared to participate in a monthly Committee meeting. Learn about the water resources of our Valley. Rewarding experience of providing service to your community.

## Why You Want to Participate

Please use the back of this form to add more information and/or attach a resume

Hello neighbors!

Having lived in Boulder Creek for just over a year, I love our community. This looks like the right opportunity for me to contribute. Since high school, I've had a spark of interest in water. I worked for Pure Water Place in Mountain View, CA selling distilled water and water purification devices. The Loma Prieta quake provided me more insight into the importance of municipal water as pickup after station wagon loaded up with 5 gallon bottles of water to head up into the Santa Cruz mountains. I purchased my own water distiller (sadly now defunct) and various water filtration systems since. I even tested my grandmother's well water on her farm in Iowa with it's kidney-stone inducing 1600 ppm of dissolved solids. Ok, I don't really know if that was the cause, but that level is certainly higher than California allowed at the time with municipal water.

These days, I'm involved in electricity -- wind, solar, and hydro -- at Silicon Valley Clean Energy, a community choice energy agency. This is a similar agency to the one that serves our county -- Monterey Bay Community Power. Clearly, water and energy are interrelated. I am interested in learning more about how water fits into our lives and lending whatever knowledge I have to ensure our community thrives.

# John C. Supp, C.E.M.

255 Harmon Street  
Boulder Creek, CA 95006

[johncsupp@gmail.com](mailto:johncsupp@gmail.com)  
650-646-1524

**MANAGER, ACCOUNT SERVICES** 2017-present  
Silicon Valley Clean Energy (SVCE)

- Engage large commercial customers on vision and mission of Community Choice Energy (CCE). Resolve billing and data issues. Design tools to model solar and multiple tariff performance.
- Running customer Peak Day Pricing program. Developed modeling tool to compare customer economics for demand response & conventional rates.
- Designed Program brief template and authoring multiple program designs
- Lead author for residential grant proposal on strategic electrification via heat pump water heaters.

**INDEPENDENT CONSULTING** 2016-2017  
Vermont Energy Investment Corporation (VEIC)

- Providing research, guidance and solutions for contract negotiations, 5-year strategic plan, and energy measure projections for the DC Sustainable Energy Utility (electricity & gas reduction, increased renewables, local contractor development, and green job creation).

**UTILITY PROGRAM MANAGER** 2016-2017  
Bloom Energy

- Develop internal protocols to comply with fuel cell rebate programs in CA, CT, NY, NJ, and MA. Provide feedback to program administrators to improve their programs. Collaborate with sales, accounting, and metering teams to minimize transaction time and expenses and optimize customer experience. Established forecasting metrics for sales, accounting and fulfillment departments.

**PROGRAM MANAGER (multiple roles)**  
Vermont Energy Investment Corporation (VEIC) 2012 - 2016

**Director, Account Management (Custom Program)** three years

- Engaged in a consultative fashion Universities, Commercial, Federal Government, Institutional, and Multifamily customers to foster deeper investments in energy efficiency and renewable energy.

- Fostered investments in improved Lighting, HVAC, VFD, Controls, Steam System operation
- Delivered guidance and analysis for DC Retail Power Provider options.
- Overcame customer barriers to adoption including Budget, Capital constraints, Prioritization, Internal Valuation, Technical, Personnel, and Intradepartmental Collaboration
- Developed effective translations between Energy, Money, and Carbon goals to facilitate coordination between customer stakeholder groups
- Managed team of 11 working with large energy user, contractor, vendor, and supplier communities
- Identified and executed catalytic investments in new technologies, provided consultative services, and engaged key customers, associations, and industry stakeholders
- Developed forecasting tool to project impacts on orthogonal performance goals
- Provide testimony for DC Public Service Commission (PSC) and Department of Energy and Environment (DOEE)
- Most cost-effective program, highest customer satisfaction within the portfolio
- Lead author for 12 program portfolio for 2017 successful contract rebid

**Program Manager, Low-Income Solar Initiative** three years

- Managed \$1M annual budget to procure installations of solar (electric and/or thermal) for low-income residents in both single and multi-family buildings
- Consistently reduced program implementation costs (average 15% per year)
- Created and delivered contractor trainings, implemented quality assurance and quality control workforce development initiative
- Cultivated relationships with local government agencies to support pipeline
- Developed paid internship program to support green jobs goals

**Account Manager 3 (DCSEU)** one year

- Develop and execute plan for securing \$15M in annual energy efficiency investments within the commercial and institutional marketplace. Worked primarily with federal government, universities and commercial real estate
- Delivered highest yielding investments on team

**SALES CONSULTANT** 2009 - 2011

Solar Depot  
(Nationwide Renewable Energy Distribution)

- Developed business to business customers for solar thermal and photovoltaic (PV) systems for both on-grid and off-grid applications
- Increased territory performance to over \$5 million from \$1.5 million in first year
- Created sales tool to maximize energy harvest given a fixed area using all of the PV panels we supply versus competitors' offerings
- Developed and delivered numerous sales trainings
- Composed core training material for HeatSpring's NABCEP PV Sales training program

## **SENIOR PROGRAM MANAGER**

2007 - 2009

California Solar Initiative  
Center for Sustainable Energy (CSE)

- Managed \$22.3 million annual budget for the California Solar Initiative for San Diego Gas and Electric (SDG&E). Forecasted annual and quarterly budgets for all program expenditures
- Co-authored all CPUC & CEC filings and public comments regarding program changes and strategic direction of California Solar Initiative
- Developed marketing, communication, and educational resources
- Created models for utility tariff and solar performance interaction
- Organized 26 industry representatives to determine new methodology for Shading Analysis. Developed and authored final concept and proposal
- Developed content for and delivered monthly workshops and trainings
- Managed staff of nine full-time employees and interns
- Developed new incentive calculator design as well as alternate shading methodology projects
- Co-founded CSE Consulting services: developed energy value calculator for various time-of-use tariffs for solar performance assessments; lead consultant on hourly/monthly/yearly PV production evaluations, and utility tariff analyses
- Lead author - "The Impact of TOU on PV – Go West" for Home Energy magazine

## **SENIOR SOLAR CONSULTANT**

2005 - 2007

Clean Power Systems – San Diego, CA

- Cultivated and secured residential and commercial solar electric (pv) customers. Closed \$1.3 million in fiscal 2006.
- Delivered in-home consultation, specifying appropriate system size and finalizing customer-company contracts.
- Developed effective sales tools for company-wide sales representative use.

## **NORTH AMERICAN SALES MANAGER**

2001-2003

Southwest Windpower Inc. – Flagstaff, AZ

- Managed 6 primary and 25 secondary accounts responsible for \$3.5 million annual sales (70% of total company sales). Consolidated an unwieldy 100+ account distribution channel to a manageable 31.
- Increased under-performing turbine line sales by 35% for a combined 105% of goal.
- Created training tools, including training CD's and e-mail distribution lists.
- Provided company forecasting, developed territory plans, and generated newsletter.

B.A., Political Science, University of California, Los Angeles (UCLA)

Certified Energy Manager, C.E.M.

United States Marine Corps -- earned two Meritorious Masts for Leadership

## MEMO

TO: Board of Directors  
FROM: District Manager  
SUBJECT Board Member Committee Assignments  
DATE March 7, 2019

### Recommendation:

It is recommended that the Board of Directors review Board Member Committee assignments and make changes to the Committees as necessary.

### Background:

The San Lorenzo Valley Water District Board of Directors Policy Manual provides for four standing committees, with Board members:

Administrative - Fultz, Henry

Budget & Finance - Fultz, Henry

Engineering - Bruce, Smallman

Environmental - Bruce, Smallman

Each standing committee shall have no power or authority to commit the District or to take any action on behalf of the Board of Directors. Standing Committees shall hold meetings at such times, frequency and locations as deemed necessary by consensus of the committee members. Committees are encouraged to meet at least monthly.

It shall be the responsibility of the Board Chair to appoint and disband all committees, subject to Board of Directors approval.

It is recommended that the Board Chair review Board Committee assignments and recommend changes subject to Board of Directors approval.

## MEMO

To: Board of Directors

From: District Manager

Prepared By: Director of Operations

SUBJECT: Quail Hollow Well #5A and Olympia Well #3 - Proposal for Hydrogeological Services, Waiver of Formal Bids

DATE: March 7, 2019

### RECOMMENDATION

It is recommended that the Board of Directors review this memo and authorize staff to accept the Martin B. Feeney, Consulting Hydrogeologist, proposal for Hydrogeological Services totaling \$38,100, waiving formal bidding procedures, in regards to the District's Quail Hollow Well #5A and Olympia Well #3 rehabilitation project.

### BACKGROUND

It has been determined after a Hydrogeologic Assessment that the District's Quail Hollow Well #5A and Olympia Well #3 water production has declined due to plugging by a build-up of iron bacteria and not due to efficiency. Iron bacteria are common in wells in the San Lorenzo Valley area and it has plugged well screens in the District in the past.

Martin Feeney has performed Hydrogeological Services for the District in the past; including overseeing the construction of all three of the Districts Pasatiempo Wells, overseeing rehabilitation of Paso Well #7 in 2018, completing the Hydrogeologic Assessment of Quail Hollow Well #5A and Olympia Well #3 and his knowledge is invaluable.

Staff is requesting sole source procurement utilizing Martin B. Feeney moving forward with a proposal at a cost of \$38,100.

District Ordinance 8, Article 18.8(a) Waiver of Provisions-Competitive Bidding, states "Notwithstanding any other provision of these rules, the Board by four-fifths (4/5) vote may waive as to individual purchases, the competitive bidding requirements of these rules and may make such purchasing without calling for bids".

FISCAL IMPACT: \$38,100

Director of Operations

James Furtado



SAN LORENZO VALLEY WATER DISTRICT

RESOLUTION NO. 31 (18-19)

SUBJECT: QUAIL HOLLOW/OLYMPIA WELLS REHABILITATION

WHEREAS, the District's Quail Hollow Well 5A and Olympia Well 3 have been losing water production over the past three years; and

WHEREAS, the loss of production has been determined to be a result of plugging from Iron Bacteria; and

WHEREAS, rehabilitation is needed to clear the Well column of this Iron Bacteria causing reduction in production; and

WHEREAS, District Rules and Regulations, Article XIV, Section 14.07 (a) Waiver of Provisions, states "Notwithstanding any other provision of these rules, the Board by four-fifths (4/5) vote may waive as to individual purchases, the competitive bidding requirements".

NOW THEREFORE, BE IT RESOLVED the Board of Directors waives competitive bidding and authorizes the District Manager to execute an agreement with Martin B. Feeney Consulting Hydrogeologist for Hydrogeologic oversight services of Quail Hollow Well 5A and Olympia Well 3 rehabilitation, and authorize the District Manager to enter into a contract in the amount of \$38,100.

\*\*\*\*\*

PASSED AND ADOPTED by the Board of Directors of the San Lorenzo Valley Water District, County of Santa Cruz, State of California, on the 7th day of March 2019, by the following vote of the members thereof:

AYES:  
NOES:  
ABSTAIN:  
ABSENT:

---

Holly B. Hossack  
Secretary of the Board  
San Lorenzo Valley Water District

**Martin B. Feeney**  
Consulting Hydrogeologist

February 25, 2019

San Lorenzo Valley Water District  
13060 Highway 9  
Boulder Creek CA 95006

Attention: Nate Gillespie – Water Treatment and Systems Supervisor

Subject: Proposal for Hydrogeologic Services – Rehabilitation of SLVWD Quail Hollow No. 5A and Olympia 3 wells.

Dear Mr. Gillespie:

Following up on your request, I am pleased to present this proposal for hydrogeologic services associated with the rehabilitation of San Lorenzo Valley Water District's Quail 5A and Olympia 3. This work is a follow up to the recent assessment of the Quail Hollow and Olympia wellfields which recommend that these two wells be rehabilitated. Presented below is a scope of work and budget.

### SCOPE OF WORK

**Task 1 – Data Review/Logistical Planning** – Most of the data review has been completed as part of the recent assessment. This task will focus on developing approaches to the logistical issues associated with performing a rehabilitation program for both of the wells. Included in this task will be issues associated with disposal of produced water, staging area for tanks and equipment, and safety issues.

**Task 2 – Prepare Workplan and Specifications** – After completion of Task 1, a workplan and specifications suitable for soliciting bids for the rehabilitation of each well will be prepared. It is assumed that the task includes preparation of “technical specifications” suitable for inclusion with District's “boiler plate” procurement package. A list of potential contractors from which to solicit bids will be provided. This task also assumes assistance to the District in reviewing bids/experience and selection of contractor.

**Task 3 – Oversee Execution of Workplan** – The workplan is anticipated to include removal of pump, pre-rehabilitation video, mechanical cleaning, chemical treatment, post-chemical cleaning, disinfection, test pumping and post-rehabilitation video. It is estimated this work will take approximately three weeks for each well. The budget assumes two mobilizations. This task will include observation, direction, and documentation at critical portions of the project. It is anticipated that the overall supervision time would be approximately 75% of the contractor's time on project. If available, I will attempt to have some of the supervision performed by an employee of a qualified firm. This will reduce project costs and whatever reduction is achieved will be passed on to the District.

**Task 4 – Prepare Summary Report** – Upon completion of the rehabilitation effort, a summary report documenting work performed and improvement in well performance will be prepared for each well.

02/25/19

### BUDGET

The project will be performed on a time and expense basis in accordance with the 2019 fee schedule. A full breakdown of the costs is attached. The budget broken down by task is presented below:

Task	Cost
Task 1- Data Review/Logistical Planning	1,320
Task 2 – Prepare Workplan and Specifications	2880
Task 3 – Oversee Execution of Workplans (2 wells)	31,170
Task 4 – Prepare Summary Report	2,730
Total	\$38,100

### SCHEDULE

Due to system demand issues, it is understood that the work would be staggered such that both of the wells are not off-line at the same time. It is also understood that the District would like to move forward on this project before the summer so that most of the demand can be met with surface water supplies. Given my current work load, an appropriate goal would be to get the “technical specifications” completed by end of March so that the District can assemble and distribute bid notice in April with an anticipated work-start date of May or June.

The opportunity to provide this proposal is appreciated. Please contact me if you have any questions.

Sincerely,



Martin Feeney



Martin B. Feeney  
Consulting Hydrogeologist

February 4, 2019

San Lorenzo Valley Water District  
13060 Highway 9  
Boulder Creek CA 95006

Attention: Nate Gillespie – Water Treatment and Systems Supervisor

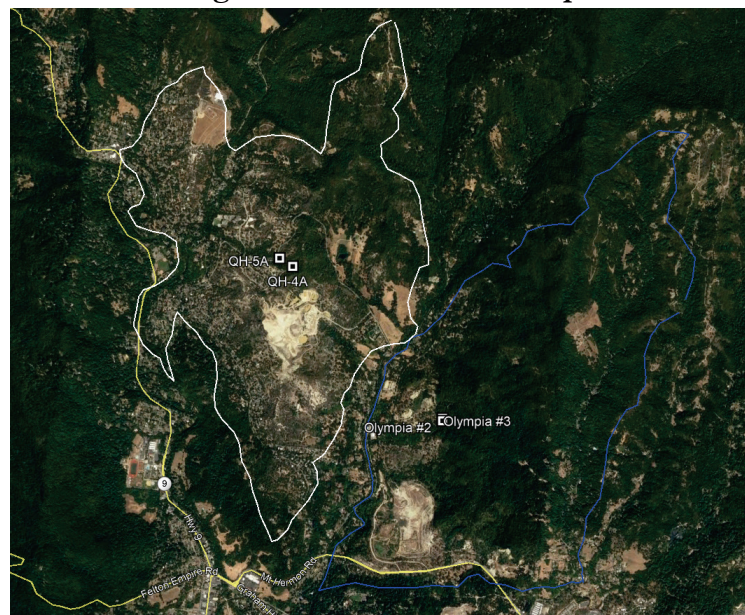
Subject: Hydrogeologic Assessment of Olympia and Quail Hollow Wellfields

Dear Mr. Gillespie:

This letter-report presents an assessment of the Olympia and Quail Hollow Wellfields operated by the San Lorenzo Valley Water District (District). The District has two active wells in each of the wellfields. The performance of two of these wells, one in each wellfield, has been declining. This work is a review of current hydrogeologic conditions in these wellfields to allow the District to make an informed decision as to whether the decline in production is the result of well performance issues or issues associated with changes in regional groundwater conditions. It also provides for recommendations for well rehabilitation.

The District's wells Quail Hollow 5A (QH 5A) and Olympia No. 3 (Oly 3) have been losing production over the last 5 years. This loss in production may be the result of well plugging or declining water levels, or both. The intent of this assessment is to determine the cause of the reduction in production, and if plugging, develop a course of action to rehabilitate the wells. The wellfield assessment characterizes the general water level conditions and history in the two areas. The locations of the subject wells are shown on **Figure 1 - Well Location Map**. The map also shows the hydrogeologic limits of each wellfield.

**Figure 1 - Well Location Map**



02/04/19

If rehabilitation of either of the wells is necessary, the logistical constraints associated with rehabilitation need to be considered. These constraints are, predominately, site space and fluid disposal. These constraints, and the cost and effort to overcome them, need to be considered in the overall decision of whether to rehabilitate. This work is intended as an initial assessment to determine the cause for loss of production and to identify rehabilitation options. The work also identifies logistical constraints and suggests ways of dealing with these constraints.

**Questions to be answered by this assessment.**

- 1) Is the observed loss in production in QH 5A and Oly 3, the result of well performance decline or changes in the groundwater hydrology?
- 2) What are the logistical constraints to performing rehabilitation activities at the well sites?
- 3) What manner of rehabilitation should be conducted

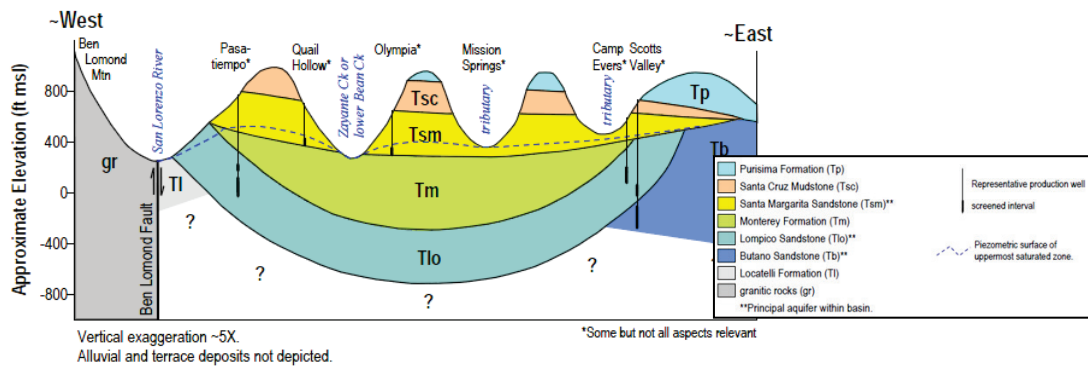
**Hydrogeologic Setting**

The hydrogeology of the wellfields has been studied and documented but many investigators, most prominently, Nicholas Johnson, PhD. Most of Dr. Johnson’s work has been performed for the District and will not be repeated in detail in this document. However, for background, some relevant discussion may help the readers understanding.

**In brief:**

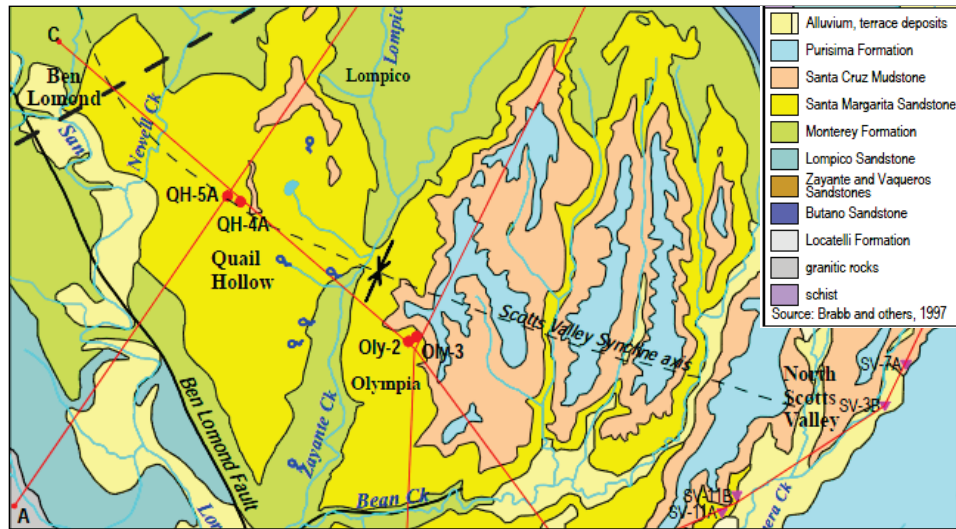
The two wellfields comprise two separate subareas of Santa Margarita Basin – Olympia Subarea and Quail Hollow areas. These two wellfields are hydrogeologically similar but have extremely limited hydraulic connection. Both produce from the Santa Margarita Sandstone. The lateral extent of the Santa Margarita Sandstone in the two wellfields is broken by the Zayante Creek drainage. This drainage has cut through the Santa Margarita into the underlying Monterey Shale almost completely separating the two wellfields. Two illustrative graphics from documents (SLVWD Water Supply Master Plan – N.J. Johnson) prepared for the District are presented below.

**Figure 2 - Representative Geologic Cross-Section through Wellfields**



From: SLVWD Water Supply Master Plan – N.J. Johnson

Figure 3 - Geologic Map of Wellfields Area



From: SLVWD Water Supply Master Plan – N.J. Johnson

Given the aquifer geometry and the relationship of the two areas of the Santa Margarita Sandstone it can be seen that the two wellfields are physically disconnected except in a short reach of Zayante Creek. In this area, the two aquifers that support each wellfield discharge into Zayante Creek. Although total extractions from either of the wellfield likely have some minor impact on flow in Zayante Creek, the Creek serves as a hydraulic barrier between the wellfields. As such, it can be concluded that the operations of the neither of the two wellfields has impacts on the other.

### Well Inventory and History

As mention above, there are two active wells in each wellfield. The wells in the Olympia wellfield were installed in the 1980’s and remain active. Both of the wells in the Quail Hollow wellfield have been replaced approximately 20 years ago. The Quail Hollow replacement wells were installed in the same location as their predecessor and were numbered with an “A” designation to note that the well was at the same location. The details of the wells are presented below in Table 1.

Table 1 - Well Inventory

Well Name	Well Type	Installation Date	Elevation (feet, msl)	Depth	Top of Perforations (feet)	Bottom of Perforations (feet)	Pump Setting (feet)	Pump HP
<b>Olympia Wellfield</b>								
Olympia 2	P	1980	525	310	230	307		60
Olympia 3	P	1990	538	310	230	300	279	40
<b>Quail Hollow Wellfield</b>								
Quail Hollow 4	D	?	597	260	180	250		
Quail Hollow 5	D	?	518	175	124	164		
Quail Hollow 4A	P	2001	597	260	182	252	237	25
Quail Hollow 5A	P	2000	518	174	124	164	155	25

D=Destroyed, P=Production

## Factors Affecting Well Performance

### Groundwater Water Level

Groundwater levels are a function of seasonal recharge, extraction volumes and natural discharge. Recharge in the subject area occurs almost solely from infiltration of precipitation. Extractions occur through discharge to springs and streams and well pumping. Each of these factors is discussed in further detail below.

**Precipitation** – Recharge is directly proportion to precipitation. The annual precipitation for the area of the wellfields is presented on each of the summary graphs for each of the wells. Rainfall during the period of record averages 48.5 inches and has ranged from as high 101.6 inches in 1983 to as low 7.8 inches in 2013. An alternative, and perhaps more useful, way of looking at precipitation variation is to look at the cumulative variance from the average over time. **Figure 4 - Cumulative Departure from the Mean** presents the data in this manner. This way of looking at the data helps delineate periods of wet and dry conditions that can be masked by the average.

**Figure 4 - Cumulative Departure from the Mean**

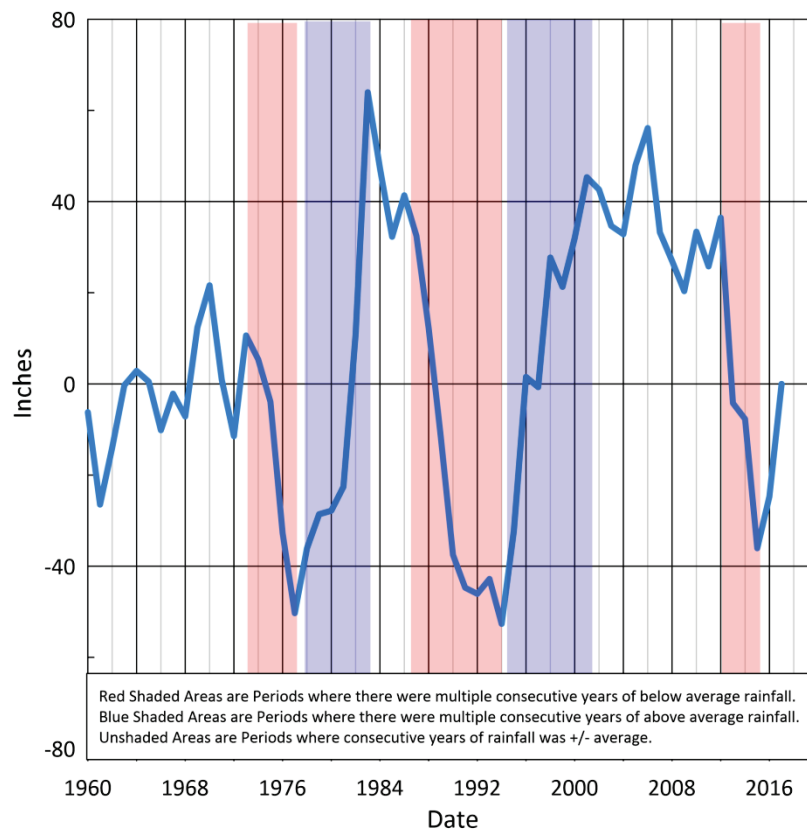


Figure 4 reveals several periods of wet and dry over the period of record. Conditions were relatively stable until 1974, then a 2 – 3 year drought during 1975-77, followed by a wet period through 1983. Between 1984 and 1993 rainfall was below average followed by a period of above average rainfall during the period of 1994 through 2001.



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Rainfall was close to average for the period from 2002 to 2012, followed several years of deficient rainfall to present.

## **Extractions**

The total pumping from each well in each wellfield is presented on **Figures 5 through 8 – Well Performance Summary**. Total annual production from the Olympia Wellfield has historically ranged from less than 160 acre-feet to as much as 640 acre-feet, depending on availability of surface water and demand. 70 percent of the production comes from Olympia Well No. 2, the remainder from Olympia No. 3. The Quail Hollow Wellfield produces less than the Olympia Wellfield. Total extractions range from as little as 170 acre-feet and as much as 460 acre-feet, again, depending on available surface water and demand. Quail Hollow Well No. 4A, and its predecessor, Quail Hollow Well No. 4 produce have historically produced 60 – 70 % of the water from this wellfield.

## **Limitations of Pumping Equipment on Discharge Rate**

Extraction from a well or proximate wells can lower water levels in aquifer. The depending on the horsepower of the pump and the pump curve this can reduce well discharge rate. The pump curve relates amount of horsepower required for any combination of flow rate and lift/pressure. As lift/pressure increases, flow rate decreases. This reduction in discharge rate is not related to well performance but to available horsepower. As such, well discharge rates vary seasonally as water level changes.

## **Well Efficiency**

As determined between difference between static and pumping levels. As a well becomes less efficient, the difference between these two static and pumping levels increases, assuming the same discharge rate. This is essentially the concept of Specific Capacity<sup>1</sup>. Referencing the discussion directly above, if discharge from a well has declined, it can be solely the result of increased lift (declining water levels). If the reduction in discharge is the result of increased lift, the drawdown will reduce proportionally, because less water is being removed. If the reduced discharge is due to plugging, the reduced discharge rate will be accompanied with increased proportional drawdown.

## **FINDINGS**

### **Data Review**

**Figures 5 through 8 – Well Performance Summary**, mentioned above, present the all the relevant factors affecting well performance for each of the active wells. Presented is the aggregate annual production from each wellfield (broken down by well), the annual rainfall, the delineation of wet and dry periods and the annual average of monthly discharge rates. Static and pumping water levels are also presented along with trends of these values. Each of these figures is discussed in more detail below.

### **Olympia Wellfield**

<sup>1</sup> Specific Capacity is the ratio of discharge rate to drawdown (difference between static water level and pumping water level). The conventional units are gallons per minute per foot of drawdown (gpm/ft).

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***Olympia Well No. 2 (Figure 5)*** -- Review of the static water level record presented in Figure 5 shows a general water level decline over last 37 years of approximately 1 foot per year. This decline appears only slightly impacted by the temporal distribution of rainfall. Water levels increase in response to the wet period in the late 1990's but continues to decline in subsequent years. Discharge rates are essentially stable during the period of record. Pumping water levels essentially track static water levels and the slope of the trend lines of these values are approximately equal suggesting no change in specific capacity.

Water levels also response to total pumpage in the wellfield. As can be seen, water levels decline during the period of 2007-09 when the levels of extractions were at their highest. During the period from 2010-11, when exactions where at their lowest, water levels rise.

***Olympia Well No. 3 (Figure 6)*** -- Review of Figure 6 again shows a general decline in static water level in this well. Over the last 27 years the static water has declined about 16 feet, or approximately 0.6 ft/yr. The difference between this wells decline and the other well in the wellfield (Olympia No. 2), is likely an artifact of the differ lengths of the period of record. Additionally, Olympia No. 2 is the larger producer in the wellfield. The static water level record shows similar response to seasonal variations in precipitation and changes in aggregate extractions as Olympia No. 2.

Unlike Olympia No. 2, the trendlines of the static and pumping levels diverge showing that drawdown has increased, even as discharge rate has fallen considerably. This indicates that the well efficiency has declined.

### **Quail Hollow Wellfield**

***Quail Hollow No. 4 and 4A (Figure 7)*** – Compared to the Olympia Wellfield, static water levels in the Quail Hollow wellfield do not show the a long term change in water levels. Water levels in Quail Hollow Well 4 and 4A respond to precipitation and pumping. For the available period of record, discharge rate shows little variation. The apparent drawdown in Quail Hollow 4A, as shown as the difference between the static and pumping levels remains approximately constant during the period of record while pumping rates are also stable.

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Figure 5

Olympia Well No. 2

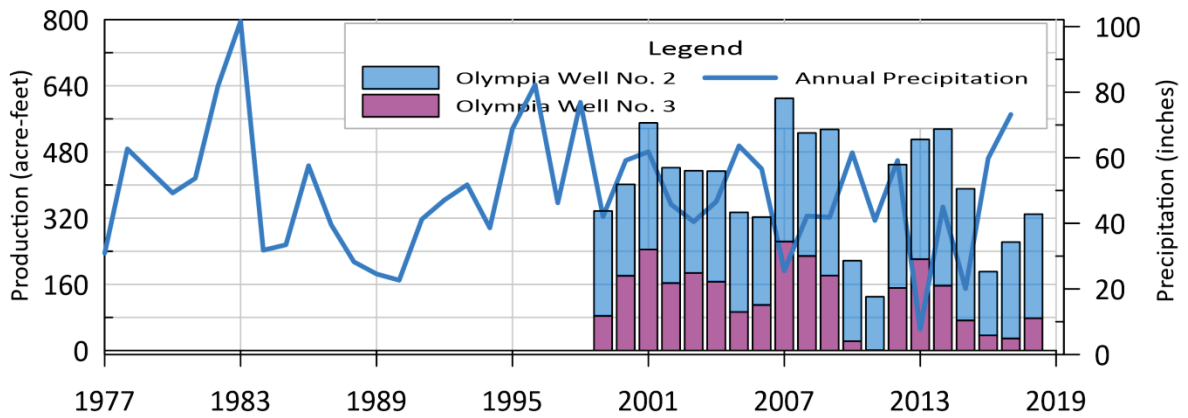
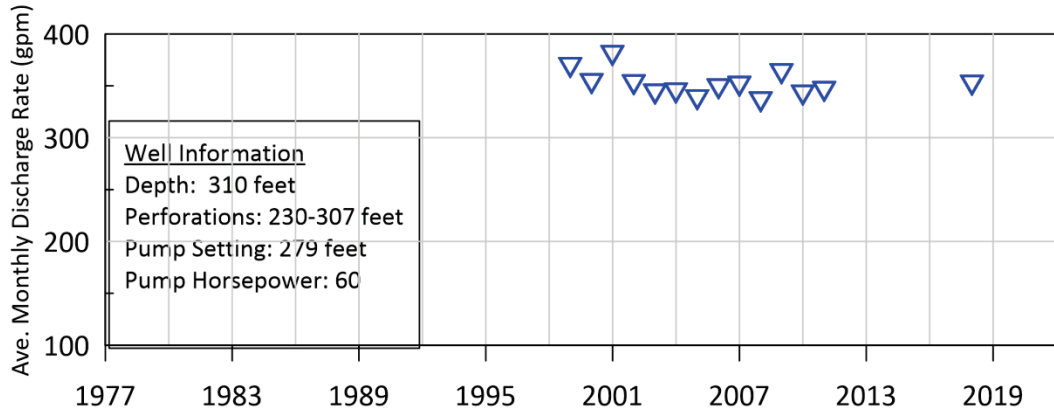
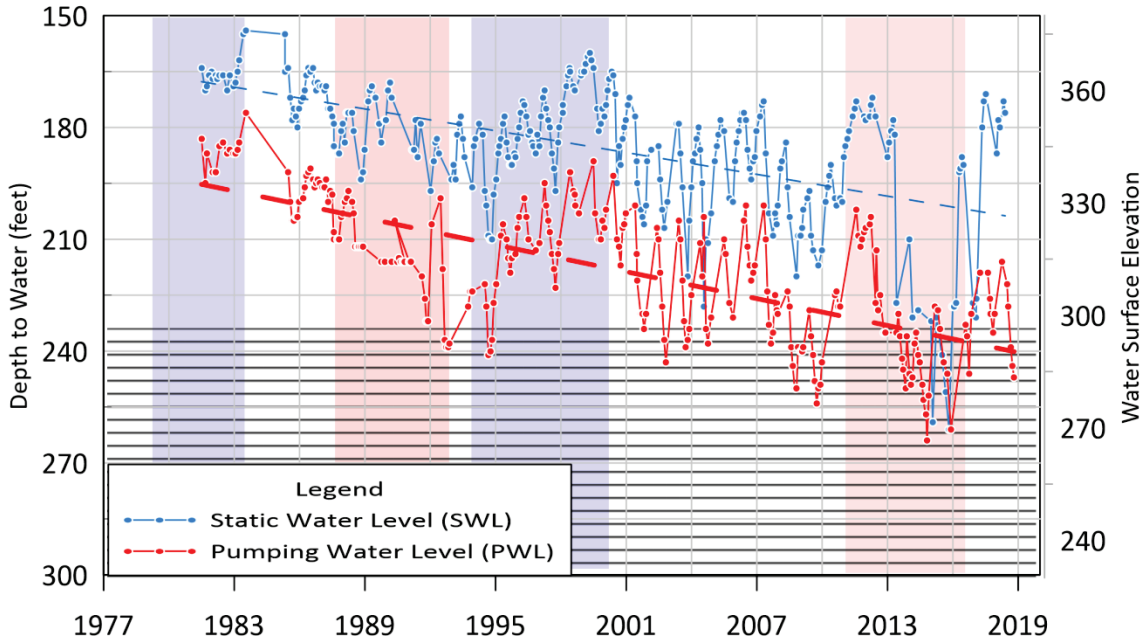
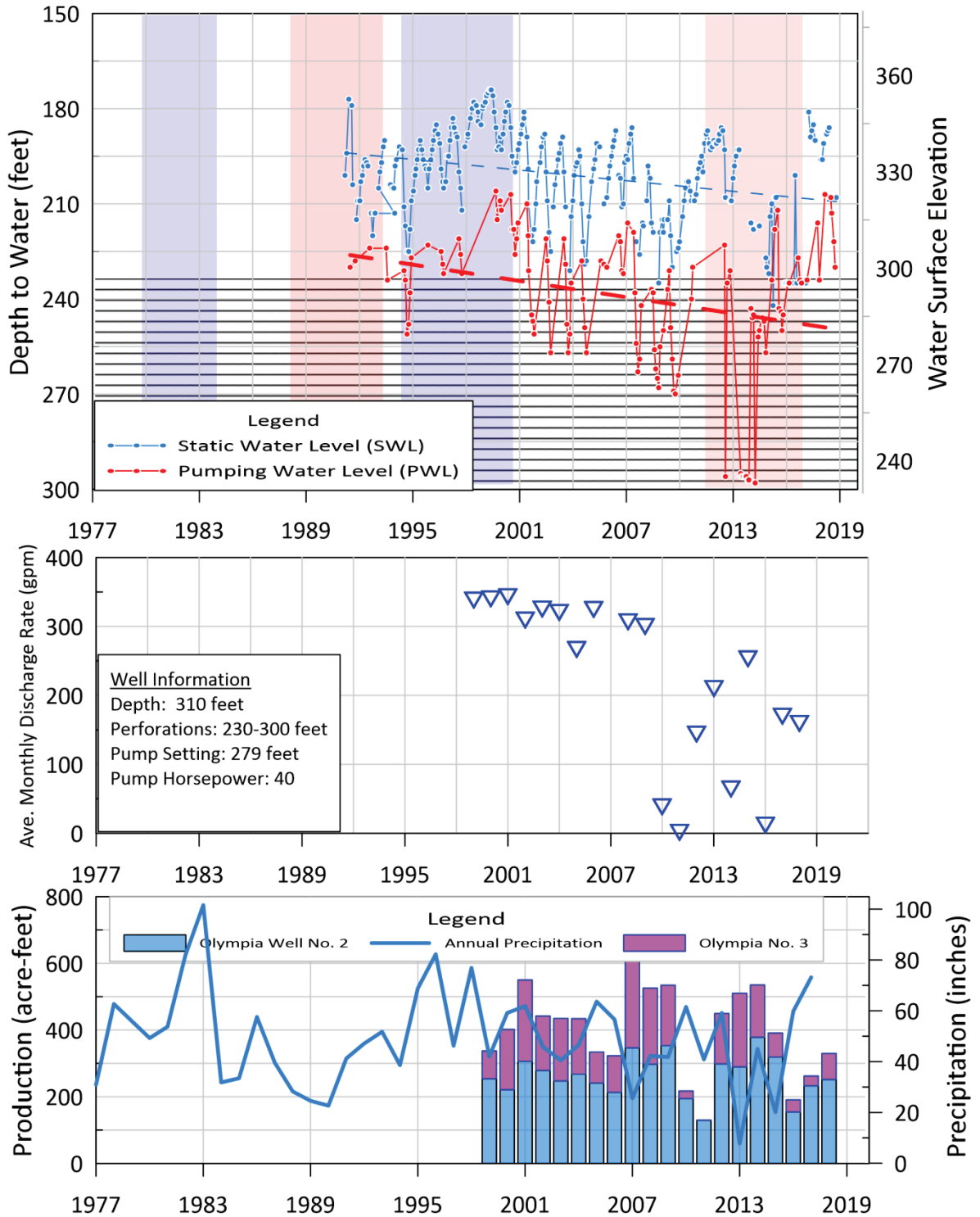


Figure 6

Olympia Well No. 3



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**Figure 7**  
**Quail Hollow Well 4A**

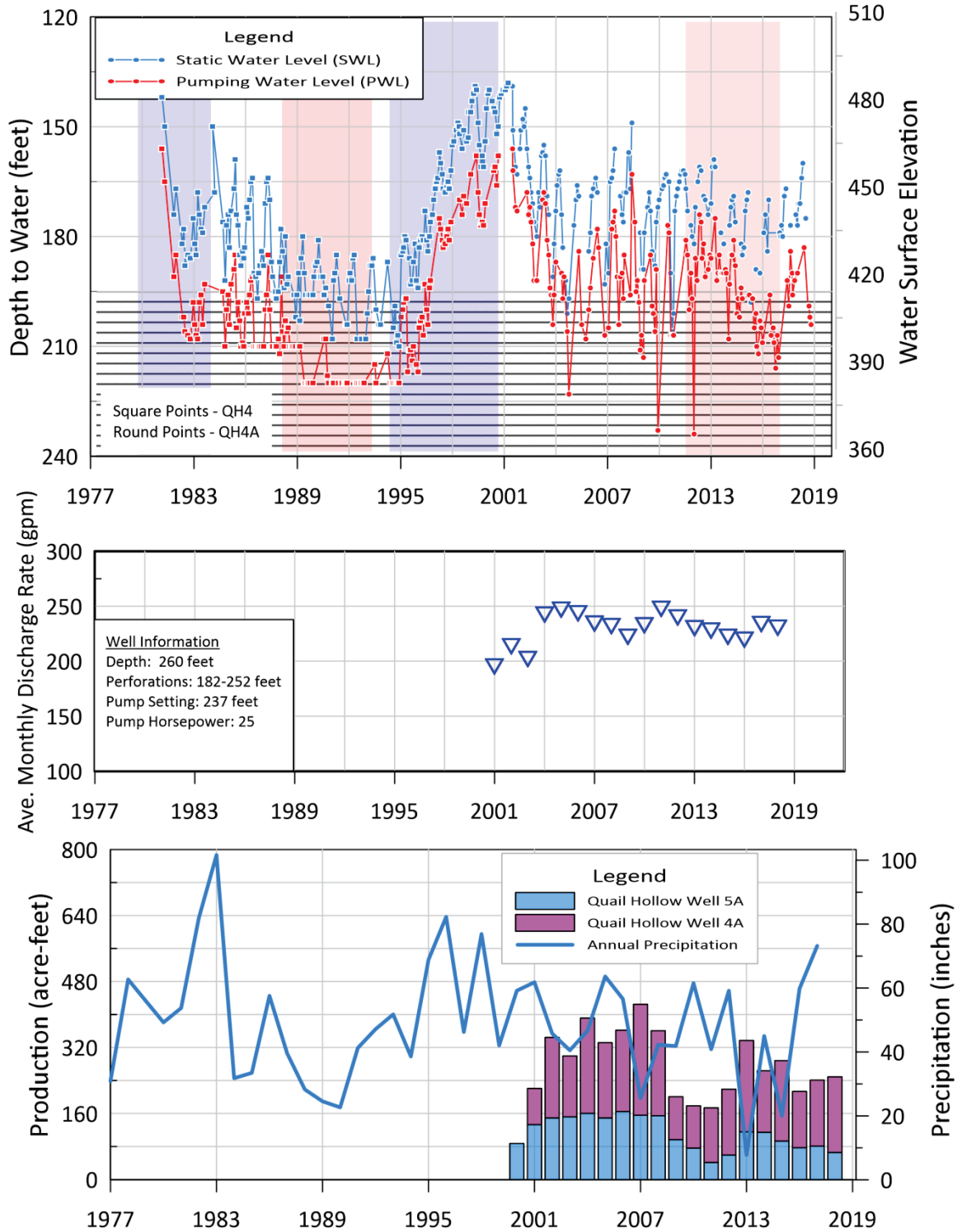
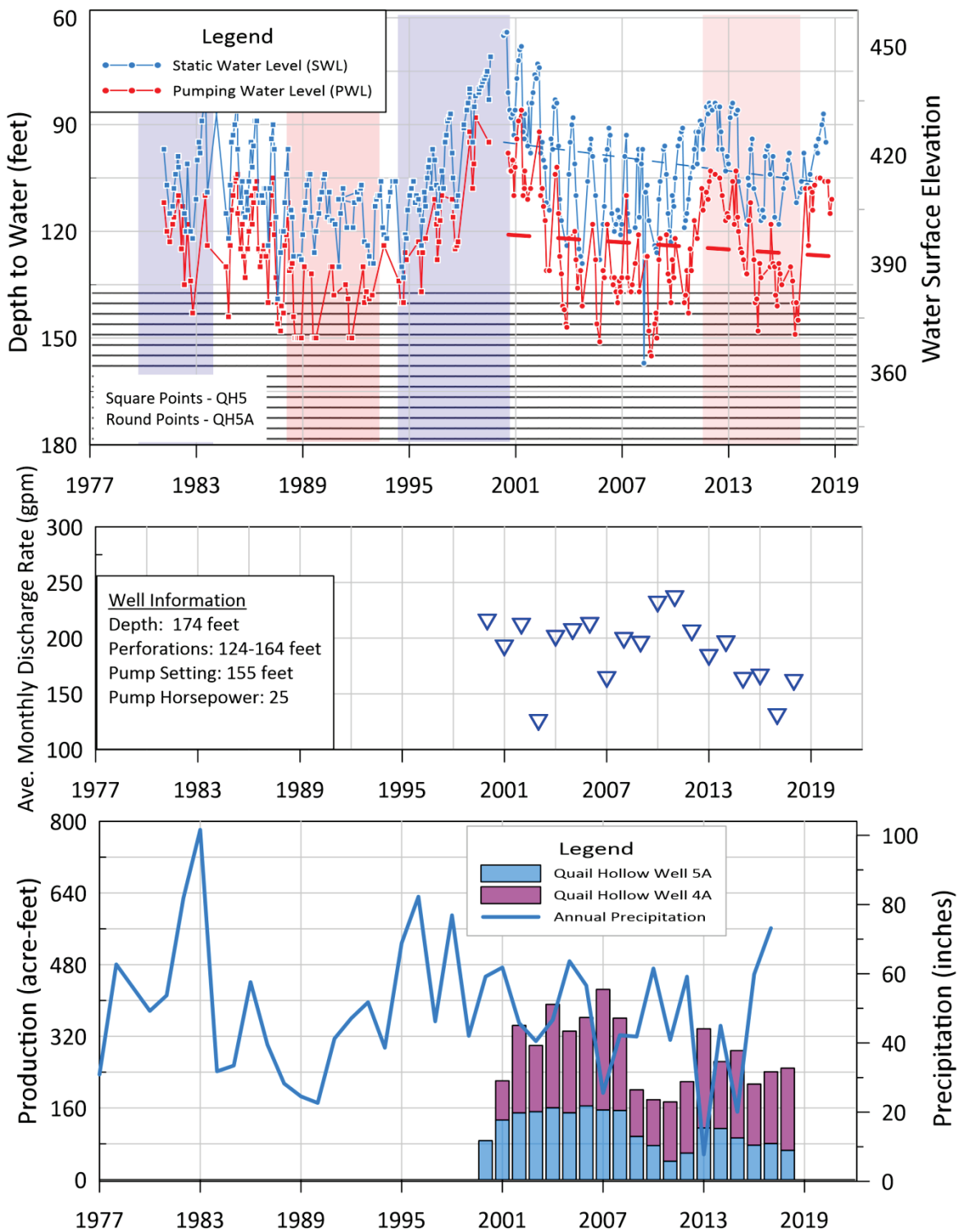


Figure 8

Quail Hollow Well 5A



**Quail Hollow No. 5 and 5A (Figure 8)** – As mentioned above, static water levels, over the period of record are relatively stable. The static water level responds to seasonal variations in precipitation and pumping. The trend lines for static water level and pumping water level appear to be converging, suggesting a decrease in drawdown. However, the discharge rate has declined significantly (50%) in the last so the total drawdown appears less but the proportional drawdown has increased or, said another way, the specific capacity has fallen.

## RECOMMENDATIONS

Based on review of the available data it is concluded that Olympia Well 3 and Quail Hollow Well 5A have lost efficiency and need to be rehabilitated.

**Approach** – Rehabilitation of a well consists of cleaning out plugging materials. Plugging materials can be physical particles, either formation sand within the gravel pack or encrustation from mineral deposition on the screens. Wells can also be plugged by biological fouling (i.e. iron bacteria). Rehabilitation approaches are typically mechanical cleaning (physical plugging) or chemical cleaning (biological fouling). Mechanical cleaning is much simpler and does not have significant logistical hurdles. Mechanical cleaning will generate only turbid water that will need to be disposed. But this water is non-hazardous. Chemical cleaning, on the other hand, requires use of strong chemicals which, after use, need to be neutralized and disposed of legally. This complicates the logistical challenges associated with the rehabilitation process and increases costs significantly. The two wells have lost some capacity, but, given the complexity and cost of a chemical treatment, and the degree of lost capacity, it is recommended that the initial rehabilitation be in the form of mechanical cleaning – the need for chemical treatment can be judged by the success of the mechanical cleaning. The following steps are anticipated:

**Establish Performance Benchmark** – Before starting rehabilitation, the current well performance should be documented. This could take the form of a short-duration formal pumping test, or simply capturing operational data (static, dynamic and discharge rate) at an increased frequency for a few days. This will allow assessment of the success of the rehabilitation process.

**Video** – It is understood that neither of the wells have been video surveyed in the last five years. Before moving ahead with a rehabilitation effort, the pump in each well should be removed, and each well should be video surveyed. This video will allow assessment of the current condition of the well and allow refinement of the proposed rehabilitation program.

**Clean** – After video survey, each well should be brushed with a nylon-wire brush or similar cleaning method and the debris bailed from the bottom of the well.

**Zone-Pump** – After brushing and bailing, well should be zone-pumped utilizing an isolation tool integrated with a submersible pump. Screen zone should be swabbed while pumping until discharge is clear.

**Super Chlorinate** – After zone-pumping, the well should be super-chlorinated to 1000 ppm chlorine and left overnight.

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**Zone Pump** – After chlorination, a second pass of zone-pumping should be performed until discharge is clear and there is no residual chlorine. If there is residual chlorine, the produced water will need to be de-chlorinated before discharge to the environment.

**Test Pump** – After the above steps the well will be test pumped to assess improvement.

### **Logistical Challenges**

If the decision is to rehabilitate one or both of the wells, the logistical constraints associated with rehabilitation will need to be considered. These constraints are, predominately, site space and fluid disposal.

*Olympia No. 2* – This well is located on a subtle ridge on a developed pad. There is space for equipment and temporary tanks. It is understood that clean fluid discharge can be directed downslope away from well.

*Quail Hollow No. 5A* – This well is located in one of the District's service yards. There is ample space for staging of equipment and locating temporary tanks, if necessary. It is understood that clean fluid discharge can be directed to the drainage that runs proximate to the site, as was done when the well was constructed.



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## CONCLUSIONS AND RECOMMENDATIONS

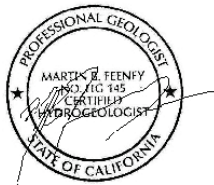
- Water levels have been slowly declining in the Olympia Wellfield during the period of record, however, this does not yet appear to be a significant factor in reduction of any given well's performance. However, if this trend continues, eventually the decrease thickness of saturated aquifer will result in reduced production.
- Water levels in Quail Hollow Wellfield have been essentially stable – responding to precipitation and pumpage, and then recovering.
- In both of the wellfields there are two active wells, if the water level decline was the reason for reduced production, it would impact each well, proportionally. This is not the case.
- The well performance decline in Quail Hollow 5A and Olympia 3, as previously identified by District staff, cannot be assigned to hydrology changes in the groundwater system. These wells appear to be losing efficiency and production rates are falling.
- When system demand allows it, Quail Hollow 5A and Olympia 3 should be rehabilitated as recommended.

## CLOSURE

This letter-report has been prepared for the exclusive use of the San Lorenzo Valley Water District for the specific application to the Olympia and Quail Hollow Wellfields. This report is based on data collected and provided by the District. The findings, conclusions, and recommendations presented were prepared in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the fields of engineering geology and hydrogeology. No other warranty, express or implied, is made.

I appreciate the opportunity to be of service. Please call if you have any questions.

Sincerely,



Martin B. Feeney, PG, CEG, CHg

MEMO

TO: BOARD OF DIRECTORS  
FROM: DIRECTOR OF FINANCE & BUSINESS SERVICES  
SUBJECT: FINANCE & BUSINESS SERVICES DEPARTMENT WORKSHOP  
DATE: MARCH 7, 2019

RECOMMENDATION:

It is recommended that the Board of Directors receive the Finance & Business Services Department presentation.

BACKGROUND:

With the majority of the Board being newly appointed, departments are doing workshops to help engage and develop an understanding of what they do.

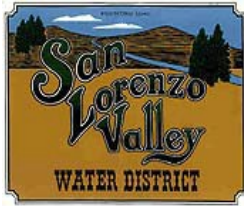
This is not meant to be a deep dive into all the different facets and analysis of the budget, audit or other processes. This is meant to bring high level insight to certain key areas, as a way to better understand the department. A lot of the items that will be discussed have other designated meetings to where the deeper dive occurs.

Some of the items we will be going over will be:

- About our department and some of our goals.
- Explaining some of the key differences between a public government entity and private sector business
- What goes into our reports, some of the key elements and behind the scenes.
- Future goals and objectives
- Future in depth discussions planned for the Budget & Finance Committee

What can you do now? Review some of the key reports the District has, it will help familiarize with some of the data.

- Annual Budget: <http://slvwd.com/finance/FY1819%20Budget%20Package%20FINAL.pdf>
- Annual Audit: <http://slvwd.com/finance/2018%20CAFR%20San%20Lorenzo%20WD.pdf>
- Most recent Quarterly Report: <http://slvwd.com/agendas/Full/2019/2-21-2019/BoD%20MEETING%20AGENDA%202.21.19%20with%20backup.pdf> Item 13.2, begins on page 473.



**SPECIAL BOARD OF  
DIRECTORS  
SAN LORENZO VALLEY WATER DISTRICT  
REVISED MINUTES  
January 23, 2019**

**MISSION STATEMENT:** Our Mission is to provide our customers and future generations with reliable, safe and high quality water at an equitable price; to create and maintain outstanding service and community relations; to manage and protect the environmental health of the aquifers and watersheds; and to ensure the fiscal vitality of the San Lorenzo Valley Water District.

**Wednesday, January 23, 2019 at 5:30 p.m.**, Highlands Park Senior Center, 8500 Hwy. 9, Ben Lomond, CA 95005.

**MINUTES**

1. Convene Meeting 5:37 p.m.

Roll Call: Dir. Fultz and Pres. Henry - no quorum, continued as a Community Meeting

**BROWN ACT & ETHICS TRAINING**

Presentation by D. Timoney, SDRMA Chief Risk Officer

Dir. Smallman arrived 15 minutes late, after the presentation had begun.



**BOARD OF DIRECTORS  
SAN LORENZO VALLEY WATER DISTRICT  
MINUTES  
February 21, 2019**

**MISSION STATEMENT:** Our Mission is to provide our customers and future generations with reliable, safe and high quality water at an equitable price; to create and maintain outstanding service and community relations; to manage and protect the environmental health of the aquifers and watersheds; and to ensure the fiscal vitality of the San Lorenzo Valley Water District.

**Thursday, February 21, 2019 at 5:30 p.m.**, SLVWD, 13057 Highway 9, Boulder Creek, CA 95006.

1. Convene Meeting 5:35 pm  
Roll Call: Dir. Swan, Dir. Fultz, Dir. Smallman, Pres. Henry present. Dir. Bruce absent.  
Staff: District Manager Rogers, District Secretary Hossack  
Dir. Smallman made a motion to excuse the absence of Dir. Bruce, Dir. Swan seconded. All present voted in favor. Motion passed.
2. Additions and Deletions to Closed Session Agenda:
3. Oral Communications Regarding Items in Closed Session:
4. Adjournment to Closed Session 5:36 pm  
Closed Session Note:  
**The Brown Act prohibits the disclosure of confidential information acquired in a closed session by any person present and offers various remedies to address willful breaches of confidentiality. These include injunctive relief, disciplinary action against an employee, and referral of a member of the legislative body to the grand jury. It is incumbent upon all those attending lawful closed sessions to protect the confidentiality of those discussions. Only the legislative body acting as a body may agree to divulge confidential closed session information; regarding attorney/client privileged communications, the entire body is the holder of the privilege and only a majority vote of the entire body can authorize the waive of the privilege.**
5. Convene to Open Session at 6:31 p.m.
6. Report of Actions Taken in Closed Session  
Closed session agenda item no. 4d pertains to anticipated litigation related to the District's Conflict of Interest Code. Any members of the public that may be curious about the nature of the threatened litigation may refer to a letter sent by Mr. Bruce Holloway to the Santa Cruz County Board of Supervisors on or about

January 14, 2019, copies of which will be provided as informational material in the next agenda packet, or can be provided by the District upon request. The Board has directed District Counsel to request an opinion from the FPPC regarding whether Board Members and any District staff are subject to Section 87200 of the Political Reform Act.

7. Roll Call

8. Additions and Deletions to Open Session Agenda:

R. Rogers requested removal of item 11d the Valley Gardens Will Serve Letter at the request of the developer.

R. Rogers also requested that the Board consider moving item 8f the Environmental Committee Meeting Suspension and 8g Watershed and Education Grants Suspension to the beginning of the agenda as he believed there were a lot of the public there for those items.

The Board agreed.

9. Oral Communications:

Pres. Henry explained the procedure for Oral Communications.

D. Loewen said that she recommends that everyone attend Committee meetings.

J. Ricker, County of Santa Cruz Water Resources Division Director, took the time to compliment the District on the work we're doing on the sustainability of water resources.

B. Holloway-Boulder Creek said that the County pursued a policy of scouring creek beds to remove all of the logs and now they are saying to put large, woody debris in the creek bed. This District has violated Felton water permit for 10 years.

V. Champlin-Brookdale complimented the budget summary and asked about legal fees last year.

J. Fasolas-Felton requested the District set up meeting with guest wi-fi.

11. New Business:

f. ENVIRONMENTAL COMMITTEE MEETING SUSPENSION

This item was introduced by Pres. Henry this item. The Board is not proposing the canceling of the meeting but suspension until a public member of members can be appointed. Also the 2 Board members and the public have to agree on a time and place for the meeting.

Roberta McPherson-Boulder Creek said, "this place of all places I've been, except for my home, is the epitome of who my husband was. He spent a lot of time here and he spent a lot of time serving on the Environmental Committee, before he was on the Board and after he was on the Board. I appreciate very much that it isn't a done deal that you're just getting rid of the Environmental Committee. It was very important to him and it gave him a voice for really important matters that happened from the Watershed Management Plan". She encouraged the Board to continue the committee in the future.

R. Moran-Ben Lomond said it's difficult for people who work to make it to Committees.

J. Gomez-Lompico said works full time and makes it to meetings and thinks there are qualified applicants that can make those times.

G. Ratcliffe-Felton said environmental work is core to everything the District is trying to get done. She said that she understands the pressure the Environmental Dept. is under and thinks that anything that can be done to make the committee work better for staff is important. She also was working full time when she was on the committee and made arrangements to attend meetings.

S. Shettler-Ben Lomond agreed with G. Ratcliffe and added the Environmental Committee needs to be a presence in the community, promoting stewardship and everything the committee does.

T. Norton-Lompico asked for clarification on the suspension.

M. Fresco-Felton agreed with G. Ratcliffe. He said you ran on an environmental slate and it seems that the Environmental Committee is the least important thing to this Board.

J. Fasolas-Felton said that he has seen the Environmental Comm. through save the District a lot of money.

C. White-Ben Lomond encouraged the Board to think past face to face meetings and look for other options.

S. Shettler added its simple to find out if there is a quorum for a meeting.

B. Springer-Felton said she is confused as to why this is called a suspension. Instead you should be working on how to keep it going.

DM Rogers said that the District has been advertising for public members of the Environmental Committee with the plan of appointing at the March 7<sup>th</sup> meeting. At that time a meeting of the committee can be scheduled.

J. Michelsen said that once the committee is fully staffed, she will send out a scheduling request.

B. Smallman insists that he cannot make a daytime meeting. It is only one meeting a month, he said. He insisted that the Board approve the applications that have come in.

R. Rogers explained the process of going out for applications for public members of the committees. We prepare an announcement with a closing date, which is February 26<sup>th</sup> for the Environmental Committee, and then take the applications to the Board. The Enviro Comm appointments are scheduled for the March 7<sup>th</sup> BoD meeting.

B. Smallman reiterated that next meeting we will bring the applications to the Board.

B. Fultz said that he thinks there has been a misunderstanding.

M. Fresco asked if other committee meetings been canceled temporarily.

S. Swan everyone can attend and participate in all of the public meetings.

g. WATERSHED AND EDUCATION GRANTS SUSPENSION

This item was introduced by Pres. Henry she said people are not looking at this right, over 4 years the grants have cost the Dist. \$130,000. That is money the District doesn't have to spend. When the Dist. started these grants we had Waterman Gap money. We don't have money to maintain our infrastructure. Our job is not to hurt the environment while providing

safe, clean water at an affordable price to our customers. Staff can go to grade schools and teach them about conservation.

B. Fultz questioned the budget for the Grants.

J. Michelsen explained that the budget is \$32,000/year. We don't always get applications for the Data Collection and Restoration Grant, those have mostly not been awarded over the last 5 years.

B. Fultz questioned the reason for the Data Collection Grants not getting applications.

J. Michelsen explained that perhaps the audience we have been reaching out to was more geared to education.

B. Fultz questioned the Commission appointment process.

R. Rogers answered that in the past the individual Board members each member has brought a name to the Board and the full Board has voted to accept.

B. Fultz questioned the historical information about the Waterman Gap funds. The previous Boards believed that a portion of the money needed to be returned to the community.

R. Rogers said that it is his recollection that the District thought that they had taken in a considerable amount of money from watershed and they needed to give money back to watershed. The money has been expensed to intertie projects and other District projects.

B. Smallman said that when you look at the numbers all you really need to do is divide by 7900 customers. He then started talking about stipends.

S. Swan said the Waterman Gap money is gone so the grants should be suspended. Other water districts have little or no grant programs.

L. Henry explained the process for Oral Communication regarding this item She limited the speaking time for each person to 1 minute.

J.? Boulder Creek, agrees with what everyone else is going to say. Schools are very important.

J. Fasolas SLV is unique. Not SV not Santa Cruz we have a responsibility. The environmental studies that we lead our children into comes back to us 2 or 3 fold.

S. Swan said that the public should contact the Santa Margarita Groundwater Agency for grant money. They have the ability to raise funds and use it however they choose. They have a much larger pool to pull from.

R. Moran SLV residents already supports schools.

K. Holl-Felton, she hears that the Board wants to manage the water resources and the habit cost effectively, it's called adaptive management. You try something and then monitor it to see if it's working. You have to actually do something and monitor it and you save a lot of money in the long run when you actually manage the land.

G. Ratcliffe-said the we are unique, we have stream sources and septic. Teaching children is the best way to infiltrate the population.

K. Springer-Boulder Creek, she's a teacher and knows the teaching young people about the watershed is important. They are our future committee members.

T. Norton understands what is being said but thinks our water money should be spent on infrastructure. She believes that all of the people in this room could form new organization to raise funds for education grants.

J. Orbuch said she is a retired teacher and she thinks the District should be proud of the fact that you have educated public and engaged students with these grants. No other districts are doing it. The District is a role model in the community.

J. Gomez this grant money is a fraction of a percent of the operating budget. It will not make or break any Capital Improvement project.

B. Holloway data collection grants should be reframed as requests for proposals. This program costs just as much in staff time as is spent on the program.

D. Ziel was the chair on the commission. She thinks the District should be proud of program. She submitted a written report. She added that Jen has been a strong staff member.

P. Smart said she was also on the commission. She noted that SLVWD gave a grants to Scotts Valley, O'Neill, the Santa Cruz Museum, and others. Kids are still benefitting from the grants.

Unidentified Felton middle school student said that since grade school people have been coming to the schools to teach them about the watershed. He said it is very important to teach kids about conservation. He feels lucky to live in this special place and to understand how to preserve this for generations to come.

N. Macy shared flyer produced through an education grant to the general public. The Valley Women's Club matched and exceeded grant funds from the District to get this out to every single resident of the Valley. She pointed out that the District is not educating the public all by yourselves.

Rachel?-Felton, said she was an SLV High student benefitted greatly from J. Orbuch's program funded by grants. If you value the children learning about the watershed, you'll find the money.

N Gird(sp?)-Felton said that this is a legacy program. It has touched many people over the years and the District should be proud that you are part of it.

E. Fresco-Felton said she understands why this educational program needs continue. She reminded the Board of their Mission Statement to maintain outstanding service and community relations and that Fred McPherson helped start these grants and has created an incredible legacy and it should be continued.

N. Moore-Felton she said that she has been to the Science Night at the school we all learn from these programs. She got a grant for an educational sign in Fall Creek.

D. Alley-Brookdale said he took part in grants, 2005, 2006, 2010 he collected data on water temperature and was able to use that data recently. Students benefit so much.

C. Baughman said that he also participated in data restoration grants. He became involved in the District because of that. The District is not in a financial malaise, it's in the best financial health in decades. This is the time to educate the people.



D. Loewen wants to go back to what Toni said. Fire hydrants and water flow is what the District should be focused on. She doesn't think education is going to come to a stop if this program is discontinued.

A. Benkert said watershed education is very important it is also included in the strategic plan.

L. Dolson is on the SLV School Board she said that these programs allow students to work with scientists on data collected directly on SLVWD property and pertinent to what is happening in the District. Students go onto careers in science because of it.

B. Springer-Felton this money represents about \$.25 per household per month. The tiny amount of money that is spent on these programs does more for the District than for anyone that receives a grant. Please continue.

L. Farris-Felton said infrastructure needs to be funded. Don't eliminate the program, simply reduce the funding.

S. Schettler said this District is a leader not a follower building for the future.

Pres. Henry thanked everyone for their comments. She said she has values and she also has money sense. Our infrastructure is in bad shape. Money needed to make sure you get water.

B. Fultz thanked everybody for coming out. Asked Dist. Counsel if under Ordinance 100, do we have to appoint people to the commission right now. Counsel responded that if the Board wants to make changes to the program we can deal with tidying up any legal issues in order to make the changes. How do we understand the direct benefit from these programs to the District?

J. Michelsen it's critical for a District like ours that gets its water from our own watershed-surface water. It's critical that we have a population that's environmentally literate to understand how the stewardship of the watershed impacts water quality and quantity. These grants provide the scientific learning that needs to start at young age in a repetitive way.

B. Fultz said that at some point we need to understanding the direct benefit to the District. He has concerns about how the program is currently structured. We need to focus on the infrastructure for the next few years.

B. Smallman said benefits are hard to measure but educating children is priceless. His entire time on the Board he has offered cost saving measures. Environmental regulations take a lot of money and don't really help the environment. \$4.00 dollars a year per person, come on folks, the benefits are priceless.

S. Swan said that he doesn't fault the grants but the grants are being confused with entitlements. This is a water district, not an educational foundation. If there is a particular item that the grant is serving that is of necessary value, then it should be put on the budget as operational expense. He suggested that this be taken to SMGWA to deal with.

B. Fultz said that the voting public let him know that they don't want any funding going to anything that is not operations and infrastructure.

B. Smallman respects Dir. Fultz position but he feels that most people would agree to funding this much money.

Pres. Henry says she wants to fix the water district so there's water.

B. Smallman made a motion to continue the Education Grant Program for \$32,500 per year.

S. Swan made a motion to suspend the Watershed Educational Grants Program be suspended at this point.

B. Fultz suggested that the motion be amended to suspend program but to send the program review to the Environmental Committee and the and the numbers to the Budget & Finance Committee and through the process of the budget we'll be able to see where the District stands. It is not permanent. This means that the Commissioners appointments will also be suspended.

Pres. Henry seconded.

3 voted in favor of the motion, Dir. Smallman voted no.

Motion passed.

Recess taken 8:14 pm

Reconvene 8:20 pm

10. Unfinished Business:

a. NOTICE OF INTENT TO ADOPT A MITIGATED NEGATIVE DECLARATION - PUBLIC HEARING

This item was introduced by J. Michelsen on Jan. 17<sup>th</sup> the Board agreed to open the public comment period for the Mitigated Negative Declaration which is a CEQA process for the Sequoia and Lyon Pipeline project. She said that one comment was received from the Department of Transportation.

Pres. Henry opened the Public Hearing

J. Michelsen continued with the comment from the Dept. of Transportation regarding working inside the roadway. No concerns regarding the environmental conditions.

R. Rogers all of their concerns were handled in the encroachment permit.

B. Fultz asked if there is anything in the document that will cause us to do anything different than we had already planned to do.

B. Smallman pipeline projects spend money on consultants and he wants to cut costs that aren't really helping the environment.

J. Michelsen explained the process for the CEQA. First there is an initial study, that document is submitted to County. Then it is available to the public for comment, that's where we are now.

B. Smallman says his goal is to show the public where their money is going.

J. Michelsen said that the main dollar amount for the CEQA process is the development of the initial study.

R. Rogers said we've seen in the past pie charts that show in a project, how much is environmental, how is engineering, etc. These are easy things we can do to show the costs.

B. Smallman these aren't benefitting the environment.

M. Lee said that the CEQA process is not as complicated as you think.

B. Fultz questioned how much of this or any of it can be reused.

J. Michelsen said none, the CEQA process is site specific.

Pres. Henry closed the public hearing.

B. Smallman made a motion to adopt Res. 29 (18-19)

B. Fultz seconded the motion.

All present voted in favor of the motion. Motion passed.

b. WATER AVAILABILITY ASSESSMENT FOR SAN LORENZO RIVER WATERSHED CONJUNCTIVE USE PLAN

This item was introduced by Pres. Henry. She said that it is her understanding that we are saying, yes received this plan.

J. Michelsen spoke about this in depth at the workshop last Board meeting. She said this is a very complex report. There are 3 major issues. One is the compliance with the Felton Water Right. Second is to improve streamflow in the main stem of the San Lorenzo River for fish habitat. Third is to recover the aquifer overdraft. It's important to understand that the potential transfers from the North System to Felton to relieve the Water Right issue, there are insufficient water resources in the ground when we are pumping during the summer. And serving the North System there is not enough water supply to be able to serve the town of Felton. If we tried to use the South System, it would be an unprecedented amount of pumping from an already overdrafted basin. The use of Loch Lomond Water Right would allow the Felton Water Right to completely comply with its Water Right and would reduce the South System pumping by 60-70%. Finally, with the addition of the Loch Lomond Water Right, we can optimize the use of the North System and Felton potential to restore the aquifer in the South System. Aquifer restoration is a critical component moving forward. The grant was \$300,000 and we agreed to match \$300,000, those projects have already been accounted for and they have already been submitted as matched funds. Those projects include the intertie project, the stream flow monitoring, the temperature monitoring, the Bull Pipeline replacement project, the fish monitoring program and project management.

L. Henry said she had spoken with R. Rogers that it's totally possible to treat that Loch Lomond water and get it into our system. Of course it's going to cost money.

R. Rogers said we start by looking at the water and then look at the infrastructure. Yes, we can treat the Loch Lomond water.

J. Michelsen said this is the first step. If you choose to accept this, the next step is to do a fish assessment to see how moving this water will impact fish resources. That's 100% grant funded. Then if you choose to we will move to the CEQA process for the interties.

R. Rogers said that is real important, whether we use Loch Lomond water or not, to be able to freely move water with no environmental restrictions.

J. Michelsen noted there are funds in the grant the CEQA as well.

B. Smallman doesn't believe we need to vote on it. We don't need to approve this document at all. This report will cost \$285,000 and the \$310,000 that came from a grant. We basically paid \$75 each for this report. He then read a prepared statement against this plan.

R. Rogers explained that staff is not asking the Board to evaluate or approve the report, if you want to evaluate the report we will put together a workshop. Staff is asking that you receive the report so that we can put it on our website so that the public can look at it.

B. Fultz questioned the cost of the report -\$75,000. He questioned if there is anything in this report that we didn't know before the report. He would like

to know the entire program scope and cost to be incurred. He questioned the CEQA application, is this a requirement in this fashion.

J. Michelsen said that if it is deemed that we need an EIR, this study and the fish study will both be important assets of the environmental impact work. She hopes we can do a mitigated negative dec.

B. Fultz said that his point is that he wants this to be sure what it is we are going to undertake. It's not just the cost of the study, it's also your time and everybody else's. Focus on exactly what is necessary. He would be happy to look items other than the injection well. And he would be happy to receive but not accept this report. And if it is posted on the website, it should have context that states this is raw material and not a set of conclusions.

A motion was made by Smallman to receive the report.

R. Rogers said there is a lot of good information in this report that we will use.

B. Holloway said he hasn't read the report so he's not aware of what it says. He said he kinda thinks the District's in an untenable position. It's just a matter of time before the State realizes that we have a water agency her that's stepping all over its permit.

C. Finnie asked Dir. Smallman who he meant when he said "they" are going to make us do this or that.

B. Smallman said the State.

J. Ricker responded to Mr. Holloway that the District inherited the Felton and is trying to address all of their diversions, they are not just sitting back. The District is restoring the fish ladder. The State knows that the District is in violation and the State knows that the District is taking proactive measures to try to address all of their diversions. This is a Streamflow Enhancement grant. This is good quantitative data. There's not a plan in the document, there's an analysis of different scenarios. It is groundwork for moving forward.

M. Lee has read the report and is disappointed. A lot of money was wasted on this report. He agrees with Dir. Smallman.

A. Benkert asked when was the project started.

J. Michelsen responded that the grant was applied for in Aug. 2016, it was awarded in spring of 2017, funds were initiated in Aug. 2017, RFPs were done in 2018.

D. Loewen said the report has quite a lot of data. It's high level overview not to be used for planning. What are we going to do with it then?

J. Ricker said that is standard consultant language.

M. Lee said using injection wells doesn't work. The use of reservoirs is missing from the report.

B. Fultz made a motion to receive the Final Water Availability Assessment Conjunctive Use Plan for the SLVWD report with context saying this does not reflect final decision of the Board.

S. Swan seconded.

B Smallman said the report is not that complicated. It doesn't say anything about his plan.

3 Board members voted in favor of receiving the report, Dir. Smallman voted no. Motion passed.

11. New Business:

a. SPECIAL DISTRICT RISK MANAGEMENT AGENCY 2019  
ELECTION NOMINATIONS

This item was introduced by L. Henry. No discussion or action taken.

b. SAN LORENZO VALLEY LEAK DETECTION - FINAL REPORT

This item was introduced by J. Furtado. He described the process. At this time 32 of 40 leaks found have been repaired. It was estimated that the leaks were 128 gallons/minute. This is about 4.2% of the water produced in 2018. The cost of the leak detection is \$25,000 and it is performed every 3 - 5 years as recommended by the State.

B. Fultz said of the 700 million gallons produced per year the leaks added up to just about what we sold last month. Why not do the rest of the system next year?

J. Furtado answered that a lot of the pipeline that wasn't done is above ground lines that SLVWD crews inspect regularly leaks. The majority of the leaks found in this process are leaks that are not surfacing.

L. Henry questioned if hydrants were listened to.

J. Furtado said they found that some hydrants had leaks sub surface.

B. Fultz questioned if we geo coded the leaks.

J. Furtado explained that our GIS System does not allow us to do that.

B. Smallman this is a good example the leaky pipelines are performing ASRs.

S. Swan questioned how does the leak report that was performed 4 years ago compare

J. Furtado said that at that time it was 10% of the water produced that year.

R. Rogers asked that they keep in mind that that was the first time the District did a sub-surface leak detection.

L. Farris questioned what is the status of leaks not repaired.

J. Furtado said they are on our priority list. There are leaks ahead of them that are more substantial that come in from calls by the public or other ways.

A. Benkert asked if District staff does the work.

J. Furtado said District staff is involved with the leak detection crew.

T. Norton questioned the percentage of the District that was done.

J. Furtado said it was about 60%.

Bill Smallman made a motion to accept the SLVWD Leak Detection Final Report.

B. Fultz seconded.

R. Rogers said it is not necessary to approve, just accept the report.

c. AWARD OF BID FOR LOMPICO PRESSURE RELIEF VALVES

This item was introduced by R. Rogers. Final engineering report found only 6 of 8 were needed. The bid came in 52% higher than the engineer's estimate.

B. Smallman said that he thinks staff can do the work.

B. Fultz asked if anyone from the SLV will be working on the crew.

T. Norton asked about the reviews on this company.

R. Rogers responded that they are a licensed contractor we have worked with before.

D. Loewen said she and Toni have made themselves a nuisance. Lompico is not presenting a burden, the burden was imposed by previous Board decisions.

B. Smallman made a motion to approve the award for bid to Earthworks Contracting, Inc. in the amount of \$468,000 Res. 28 (18-19).

B. Fultz seconded.

All in present voted in favor of the motion. Motion passed.

e. CLOSED SESSION DOCUMENTS

This item was introduced by G. Nicholls. If a document goes to a majority of the Board, pertaining to an item on the agenda, it must be made available to the public. That rule applies to Open Session meetings and not to Closed Session meetings.

Pres. Henry questioned documents that are available to the public, for example lawsuits.

G. Nicholls said if a motion gets filed in a litigation, I may provide a copy of that motion to the Board for review and discussion. That document in public in the sense that somebody could go get it from the court file, however we do not make it available to the public at the meeting simply because the Board talked about it in Closed Session.

B. Fultz said something that is otherwise publicly available, it seemed odd that it would be disclosed at some point. Are there any copyright restrictions?

G. Nicholls said it's hard for her to imagine a situation where copyright would prevent you from releasing this kind of information.

B. Fultz in his view, if something is available from another source, it should be release as part of our packet. I can agree that we do that post meeting as opposed to pre-meeting.

G. Nicholls said just imagine a circumstance where there is a sensitive personnel matter and there might be things that are posted on line, it may not be a good idea, just as a matter of course, hand those out to the public.

T. Norton most people are very interested in what's going on with Vierra, for example.

h. 2016 STRATEGIC PLAN REVIEW

This item was introduced by Pres. Henry do we want a facilitator to help with the plan.

R. Rogers read the memo.

B. Fultz said he is unclear as to what is the facilitator going to deliver.

R. Rogers the facilitator will help us come together.  
Pres. Henry if we try to do this ourselves this can take months.  
R. Rogers described the process.  
Pres. Henry  
B. Fultz said he is working on a list of priorities. Some of the discussion can be done without a facilitator.  
R. Rogers continued the describing the process.  
A. Benkert said a facilitator would better allow public input.  
Pres. Henry thinks the Board needs preparation before he gets here.  
R. Rogers said he will bring this back to the March 21st BoD.  
L. Farris asked to compare the 2014 and 2016 Strategic Plan.

12. Consent Agenda:

a. MINUTES FROM SPECIAL BOARD OF DIRECTORS MEETING  
JANUARY 23, 2019

B. Smallman asked that the January 23<sup>rd</sup> minutes be pulled from the Consent Agenda. He said he was there but the minutes list only President Henry and Dir. Fultz as being there.

Dist. Sec. Hossack explained that Dir. Smallman was 15 minutes late to the meeting and so when the meeting began he was not there, so there wasn't a quorum and the meeting was called a Community Meeting and not an official Board meeting.

G. Nicholls attempted to clarify.

B. Fultz has no problem with saying Dir. Smallman eventually arrived. The question is can we still run it as a Community Meeting.

H. Hossack added that presenter of the Brown Act Presentation advised that we could go ahead with the meeting as a Community Meeting.

G. Nicholls said that she isn't hearing anything that concerns her regarding the Brown Act compliance. Just change the minutes to say he came in and the time.

b. MINUTES FROM BOARD OF DIRECTORS MEETING FEBRUARY 7,  
2019

Pres. Henry said we can approve 12b.

B. Smallman made a motion to approve 12b of the Consent Agenda

B. Fultz seconded.

All present voted in favor of the motion. Motion passed.

13. District Reports:

- DEPARTMENT STATUS REPORTS  
Receipt and consideration by the Board of Department Status Reports regarding ongoing projects and other activities.
  - Administration/Engineering R. Rogers said all day during the week retreat.
  - Finance formal letter
  - Operations J. Furtado updated leaks
  - Environmental
- COMMITTEE REPORTS
  - Future Committee Agenda Items

- Committee Meeting Notes/Minutes
  - Environmental Committee Minutes 1.17.19
  - LADOC Minutes 1.29.19

14. Written Communication:

- Letter from D. Cox
- Letter from K. Holl, K. Moore, I. Parker and J. Trumbo
- Claim Form from T. Vierra

15. Informational Material:

- Notice of Public Meeting - LAFCO

16. Adjournment 10:11 pm



Rick Rogers  
Members of the Board of Directors  
San Lorenzo Valley Water District  
13060 Highway 9  
Boulder Creek, CA 95006

Dear Mr. Rogers and Members of the Board:

As a member of the Watershed Education Grants Committee since its inception and Chair of the Committee for about ten years, I have seen programs proposed every year by members of our community who care about preserving our watershed and educating children and adults to be better, thoughtful, informed stewards of it. The Water District should be proud of its commitment to being a leader in supporting these opportunities and should continue to support the Watershed Education Grant and the Data Collection/Restoration Grant Programs.

The committee has reviewed and been inspired by how creative, educationally sound and financially resourceful our applicants are in trying to reach as many people as possible while using our limited funding carefully. Many of the projects we have recommended for funding either build upon prior resources (i.e., science equipment purchased from previous grants, now forming the foundation for more advanced/innovative projects), or leverage funds by partnering with other agencies. A list of some of those partners is attached. Most of the projects funded, especially those funded through the Data Collection/Restoration Grant program, resulted in reports that the District may use for planning and development. Some projects resulted in products that were distributed to all residents of the Valley (The Butt Stops Here and Non-Point Source Pollution brochures) and/or were placed at our school sites and in our libraries (Fred and Roberta McPherson's videos about the source(s) of our water supply). The Watershed Academy and several other SLVUSD school programs have received funding through this program. Many of our high school students have been motivated to pursue advanced degrees and careers in environmental conservation because of their experience in the programs. Nature walks led by local experts and financial support for low income students to attend Nature Camp are just some of the creative programs supported through this competitive Grant Program.

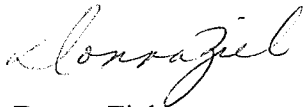
Sometimes, we encountered proposals that we couldn't or shouldn't fund, but were, nevertheless worthy of support. In several of these cases, the proposals were referred to the District for consideration. One case in point was a public information series proposed by the new local radio station, KBCZ. This resulted in a public service announcement program at no cost to the District. In addition, each grant author is invited to our meeting in which we determine our recommendations to the Board. Often, during these meetings, proponents will meet for the first time and find ways to further collaborate on projects.

Data shows that, in 14 years, the District has awarded 95 grants at an average of just over \$17,500 per year in a combination of Education and Data Collection grants. Available data (incomplete) shows that nearly 30,000 people (10,000 children; 19,300 adults) have benefitted from these programs. Because of missing data for some years, I would estimate that number could easily be doubled.

In summary, the District has reached thousands of children and adults through its Watershed Education Grant Program at a very minimal cost. We have brought together experts and just plain interested people to further the important work of education and watershed literacy. The public relations benefits are hard to quantify, but are substantial. Your Mission Statement includes the commitment to “maintain outstanding . . . community relations . . .”. Your Strategic Plan states: “To protect the District’s water resources over the long term, it is important to raise awareness of water conservation, and watershed protection and stewardship among residents of and visitors to the San Lorenzo Valley River watershed. . .” This program directly serves to meet both of those goals. I urge the District to continue to support the Watershed Education Grant Program for the benefit of our environment, our community and the residents you serve.

Thank you.

Sincerely,



Donna Ziel  
8121 Fremont Ave.  
Ben Lomond, CA 95005

## **SAN LORENZO VALLEY WATER DISTRICT**

### **SAMPLES OF FUNDED PROGRAMS**

Science Camp – lowering the cost of participation so that all children can attend  
Banana Slug String Band – engaging children (and adults) in a fun and educational program. One public program per year was required by the Commission’s recommendation.  
Exploring the San Lorenzo River – expert-led walks  
McPersons’ Videos – Learning Where our Water Comes from (now in schools and libraries throughout the Valley)  
Environmental Monitoring –years of research, data-based learning for high school students  
Anadromous Fish Exhibit at Henry Cowell State Park – part of a grant

### **WATERSHED EDUCATION GRANT PARTNERS (partial list)**

Santa Cruz Museum of Natural History  
San Lorenzo Valley Unified School District  
Coastal Watershed Council  
Santa Cruz City Schools  
YMCA Camp Campbell  
Mountain parks Foundation  
Frank Perry  
Valley Women’s Club  
D. W. Alley and Associates  
Mt. Hermon Outdoor Science School  
UCSC – Dr. Katie Monsen  
Monterey Bay Master Gardeners  
Sandhills Alliance for Natural Diversity  
Santa Cruz County Regional Conservation District  
O’Neill Surf  
City of Scotts Valley

# San Lorenzo Valley High School

7105 Highway 9, Felton, CA 95018  
hs.slvusd.org  
831-335-4425

Jeff Calden • Principal  
Danielle Winters • Assistant Principal



February 20, 2019

To whom it may concern,

While I cannot attend this evening due to a prior commitment, I would like to voice my support for the continuation of the water district grant.

This grant is something from which SLV schools can continue to benefit.

At the High School we are moving into the third year of our Agri-Science Career Technical Pathway, which consists of three courses: Biology and Sustainable Agriculture, Aquaculture, and Aquaponics.

In addition to this pathway, we have an extremely successful Environmental Monitoring Program which has researched environmental issues of our area for many years. And next year, we will be bringing back our Advanced Placement Environmental Studies course to the high school, joining our Oceanography course, and our Advanced Placement Biology course on the schedule.

These local teachers and students could benefit from the continuation of the grant.

Thank you for your time and consideration.

Sincerely,

A handwritten signature in black ink that reads "Jeff Calden". The signature is written in a cursive style with a long horizontal stroke at the end.

Jeff Calden  
Principal, San Lorenzo Valley High School

Hello, I'm Nancy Macy from Boulder Creek. I am speaking for myself and my family, and as Chair of the Environmental Committee for the San Lorenzo Valley, a Project of the Valley Women's Club.

I remember when every candidate at the Water Board candidates' forum a few year ago supported the Grants Program. Candidate Bob Fultz addressed the question about whether the education grants were worth the money saying, "Yes, I support them ... and I think anything that can increase our understanding of water, including any kind of scientific research that might be done, even things that would go to the State Science Fair, would also be of high interest to me as well. I think are a number of things that could benefit the District through those grants and I'd like to see them continue." I agree.

I remember clearly that since then, everyone now on this Board has called herself or himself an environmental steward who loves our mountains and waterways and understands the importance of protecting them. That is great! Because it's time to demonstrate this to everyone in the District, and to those the District works with in the Groundwater Agency too.

How? Most importantly, your respect for the watershed and the residents who are dependent upon it, can be demonstrated by acknowledging and embracing all the reasons to maintain, and if necessary increase, the spending levels on the District's environmental needs and concerns – All the crucial, complex things that Jen Michelsen presented at the last meeting. This includes the Education Program and its remarkable Classic Education Grants, and Data Collection/Restoration Grants. Over the years, they have touched all our lives directly or indirectly, from keeping tens of thousands of cigarette butts out of our waterways, to helping residents and students of all ages respect the functions of the watershed and its waterways.

Don't throw away this program. It provides a practical benefit and, it is a potent symbol of the District's commitment to fulfilling this important part of its Mission: " to manage and protect the environmental health of the aquifers and watersheds." Thank you.

## Holly Hossack

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**From:** Robin Brune <shaylaah@gmail.com>  
**Sent:** Thursday, February 21, 2019 8:10 PM  
**To:** Board of Directors  
**Subject:** Grants/Education program for Watershed Stewardship

Hello I am writing to express my support for the Watershed Stewardship educational program and the grants which support it. I think it is very important to teach the next generation and members of the public about responsible water stewardship. We are facing many challenges including climate change and increased population growth. Education is not a waste of funds, it reflects true responsibility and forward thinking. Please continue to support these programs.

Robin Brune  
Felton

## Holly Hossack

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**From:** Paula Cordes <paulacordes@att.net>  
**Sent:** Monday, February 25, 2019 12:46 PM  
**To:** Board of Directors  
**Subject:** help for low income water users

**RECEIVED**

**FEB 25 2019**

**SAN LORENZO VALLEY  
WATER DISTRICT**

Dear Board of Directors,

I am wondering if you will have anything in place for low income seniors or others who are having difficulty paying monthly bills and who will have still greater challenge with water bills come warmer weather. Rate increases have been significant and one can only spare water so much. I am already flushing the toilet with the cold water that comes prior to hot water for showers and also not flushing unnecessarily. We'd save a lot of water if water didn't have to travel in cold pipes... but that's another story.

I am a senior who's very low income trying to stay in my home. Please consider our community needs.

Thank you for looking into this.

Sincerely,

Paula Cordes  
5533 Washington Way  
Felton, Ca. 95018



Virus-free. [www.avast.com](http://www.avast.com)