



**BOARD OF DIRECTORS  
SAN LORENZO VALLEY WATER DISTRICT  
AGENDA  
April 7, 2016**

**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 regular meeting of the Board of Directors of the San Lorenzo Valley Water District will be held on **Thursday, April 7, 2016 at 6:00 p.m.**, at the Operations Building, 13057 Highway 9, Boulder Creek, California.

*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 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:

*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 three (3) 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 LABOR NEGOTIATORS  
Government Code Section 54957.6  
Agency designated representative: Brian Lee  
Employee Organizations: Classified Employees Unit and Management,  
Advisory and Confidential Employees Unit
5. Convene to Open Session at 7:00 p.m. (time certain)
6. Report of Actions Taken
7. Additions and Deletions to 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, presentations must not exceed three (3) minutes in length, and individuals may only speak once during Oral Communications. Any Director may request that the matter be placed on a future agenda or staff may be directed to provide a brief response.*
9. Written Communications: None
10. 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 Board member may request that an item be withdrawn from the Consent Agenda for separate discussion.*
  - a. MINUTES OF THE BOARD OF DIRECTORS MEETING FROM MARCH 17, 2016  
Consideration and possible action by the Board to approve minutes for the March 3, 2016 Board of Directors meeting.
  - b. BILL LIST FOR PERIOD ENDING April 7, 2016  
Consideration and possible action by the Board regarding the Bill List for the period ending March 17, 2016.

- c. NOTICE OF PREPARATION OF DRAFT ENVIRONMENTAL IMPACT REPORT OF MOUNT HERMON ADVENTURE PARK  
Consideration and possible action by the Board regarding the Notice of Preparation of Draft Environmental Impact Report of Mount Hermon Adventure Park.

11. Unfinished Business:

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

- a. PUBLIC HEARING AND POSSIBLE ADOPTION - 2010 URBAN WATER MANAGEMENT PLAN ADDENDUM  
Discussion and possible action by the Board regarding the 2010 UWMP-Addendum after public review period.

12. New Business:

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

- a. CONFIRM EDUCATION GRANT COMMISSION CANDIDATE  
Discussion and possible action by the Board regarding the replacement Education Grant Commission Candidate.
- b. EDUCATION GRANT COMMISSION AWARD OF GRANTS  
Discussion and possible action by the Board regarding award of grants recommended by the Education Grant Commission.
- c. ASSOCIATION OF CALIFORNIA WATER AGENCIES 2016 SPRING CONFERENCE & EXHIBITION  
Discussion and possible action by the Board regarding participation by the Board in the ACWA 2016 Spring Conference & Exhibition.

13. District Manager Reports:

*Information reports by the District Manager, Staff, Committee and Board of Directors.*

- a. MANAGER

- (1) Department Status Reports  
Receipt and consideration by the Board of Department Status Reports regarding ongoing projects and other activities.

- (i) Q & A from prior Board Meetings
- (ii) Administration
- (iii) Environmental

b. COMMITTEE/DIRECTOR REPORTS:

- (1) Future Committee Agenda Items
- (2) Committee Meeting Notes
  - (i) Administration Committee Meeting Notes - 3/29/16

14. Informational Material:

- a. SANTA CRUZ COUNTY WATER AGENCIES TO CHANGE  
INCONSISTENT WATER BASINS-SC Sentinel 3.29.16

15. Adjournment

**Certification of Posting**

I hereby certify that on April 4, 2016 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 April 4, 2016

\_\_\_\_\_  
Holly B. Morrison, Dist. Secretary  
San Lorenzo Valley Water Dist.

**SAN LORENZO VALLEY WATER DISTRICT  
BOARD MEETING MINUTES**

March 17, 2016

6:00 p.m.

**CONVENE MEETING/ROLL CALL:**

President Brown convened the meeting at 6:03 p.m.

Roll call showed Dirs. Bruce, Ratcliffe and Baughman were present. District Manager Lee, Director of Operations Rogers and Legal Counsel Hynes were also present. Director Hammer arrived at 6:08 p.m.

**ORAL COMMUNICATION:** None

**ADJOURNMENT TO CLOSED SESSION:**

President Brown adjourned to closed session at 6:09 p.m.

**RECONVENE TO OPEN SESSION:**

Pres. Brown reconvened the meeting to open session at 7:00 p.m.

Roll call showed President Brown, Dirs. Bruce, Ratcliffe, Baughman and Hammer were present. District Manager Lee, Director of Operations Rogers and Legal Counsel Hynes were also present.

**REPORT ACTIONS TAKEN IN CLOSED SESSION:**

President Brown announced that the Board came up with a review of satisfactory for the performance of District Counsel Hynes.

Director Bruce made a motion that the Board deemed the performance of District Counsel Hynes satisfactory in all respects.

**ROLL CALL:**

Ayes: Hammer, Brown, Baughman, Ratcliffe, Bruce

Noes:

Abstain:

Absent:

**ADDITIONS AND DELETIONS TO AGENDA:**

District Manager Lee made a recommendation from staff to reverse items 12a & 12b. President Brown agreed.

**ORAL COMMUNICATIONS:**

Charlene DeBert, Boulder Creek, addressed the Board regarding a presumed water issue.

**WRITTEN COMMUNICATION:** No discussion

**CONSENT AGENDA:**

Dir. Hammer asked that item 10c be removed from the Consent Agenda. He is a member of the Redwood Mountain Faire Steering Committee that wrote the letter to the District, so he would like to recuse himself from the item to prevent any question of impropriety.

10a MINUTES OF THE BoD MEETING ON MARCH 3, 2016

10b BILL LIST FOR PERIOD ENDNG MARCH 17, 2016

President Brown made a motion to accept the items 10a and 10b.

ROLL CALL:

Ayes: Hammer, Bruce, Baughman, Ratcliffe, Brown

Noes:

Abstain:

Absent:

10c THE REDWOOD MOUNTAIN FAIRE

The Board discussed this item.

John Fasolas, Felton, encouraged the Board to go to the Redwood Mountain Faire as a PR benefit.

Director Bruce made a motion for approval of participation in the Redwood Mountain Faire.

ROLL CALL:

Ayes: Brown, Ratcliffe, Baughman, Bruce

Noes:

Abstain: Hammer

Absent:

**UNFINISHED BUSINESS:** None

**NEW BUSINESS:**

12b LEAK ADJUSTMENT REQUEST - D. BELOM

District Manager Lee described the item. The District recommends denying the claim as a gift of public funds.

Dir. Bruce questioned the circumstances of the two billing cycles, can the District pay for one of the billing cycles.

DM Lee said that policy allows for relief from one billing period. The Belom's are asking for relief from the event, regardless of the billing cycle.

Dr. Belom explained the situation. He claims that if he had received notification of a high reading this could have been taken care of sooner. He said that there should be a mechanism to take care of these occurrences.

DM Lee explained that we followed the policy.

Dir. Ratcliffe noted that the red tag he received is our notification system.

Dir. Bruce noted that the red tag stated that no one was home. How were they supposed to get the notification?

Dir. Ratcliffe said that this appears to be the "perfect leak storm", someone was out of town and the leak occurred over two billing cycles, but we have a policy.

Dir. Bruce questioned how often this happens.

DM Lee said that this was the first time.

Dir. Baughman said this is the perfect time to review this policy.

Discussion of policy ensued.

Dir. Hammer pointed out that we have an issue before the Board right now.

Dir. Ratcliffe asked Dist. Counsel Hynes to define "gift of public funds".

Mr. Hynes that it is not benefit related.

Pres. Brown brought the discussion back to the policy.

John Fasolas, Felton, noted that it wasn't too long ago that we had a two month billing cycle. The one month cycle helped his neighbor. We now restricted this policy to one billing cycle when that used to be two months.

A member of the public questioned a specific scenario of a leak. Can one choose the cycle they want their adjustment?

DM Lee explained the policy adjustment of a second month leak scenario.

Dr. Belom asked for consideration in this matter.

Dir. Hammer pointed out that this is a legal issue regarding policy.

Dir. Bruce requested that this policy be sent to the Admin Committee agenda.

#### 12a FINANCIAL SUMMARY REVIEW 1/31/16

DM Lee described the item. There is an upturn due to the drought surcharge. We expect to end the year in the black.

#### 12c SPECIAL DISTRICTS' FREEDOM TO CONTRACT - SB 885

Dist. Counsel Hynes described this item.

Dir. Bruce made a motion to submit a letter of opposition, following the example of CSDA with the inclusion of comments by Dist. Counsel Hynes.

#### ROLL CALL:

Ayes: Hammer, Baughman, Ratcliffe, Brown, Bruce

Noes:

Abstain:

Absent:

#### 12d CRITICAL RIFFLE SCOPE & BUDGET AWARD OF CONTRACT

DM Lee described this item.

Dir. Baughman questioned if this was wise but not mandated.

Dir. Bruce questioned if there are other jurisdictions that will benefit from this study.

Pres. Brown noted that the more we know about this issue the better it is for the District.

Dir. Hammer is concerned about budgeting for these sorts of items.

Dir. Hammer made a motion to approve the award of contract.

#### ROLL CALL:

Ayes: Bruce, Baughman, Ratcliffe, Brown, Hammer

Noes:

Abstain:

Absent:

#### 12e 2015 UWMP CONSULTING AWARD OF CONTRACT

DM Lee described this item. We had intended to complete the UWMP in house. NOAA changed their requirements resulting in the need for an outside agency to complete the UWMP. The EEP Committee recommends Water Systems Consulting.

John Fasolas, Felton, said that he had a playbook from CalAm that might be helpful.

Dir. Hammer made a motion to negotiate a contract with Water Systems Consulting not to exceed \$55,499.



**ROLL CALL:**

Ayes: Bruce, Baughman, Ratcliffe, Brown, Hammer

Noes:

Abstain:

Absent:

**12f 2017-2019 PROFESSIONAL AUDITING SERVICES AWARD OF CONTRACT**

DM Lee described this item. The current firm that we are using came out with a bang up proposal. Fedak & Brown is the recommended proposal.

Dir. Baughman said that the deciding factor was the familiarity with one another.

Pres. Brown agreed.

Pres. Brown made a motion to hire Fedak & Brown for 2017-2019 with an option to continue for an additional 2 years.

**ROLL CALL:**

Ayes: Hammer, Bruce, Baughman, Ratcliffe, Brown

Noes:

Abstain:

Absent:

**GENERAL MANAGER REPORTS:**

DM Lee shared the highlights from the Financial Status Report.

He said that he received an email that the Groundwater Management Adjustment Report has been submitted to the State.

Last night was the Lompico Board meeting. They discovered that several people had not been sent ballots so the next ballot count day has been moved to May 4, 2016.

Director of Operations Rogers shared highlights from Operations.

Dir. Baughman shared highlights from Budget & Finance Committee meeting 3.8.16.

Dir. Ratcliffe shared highlights from the Spec. EEP Committee meeting 3.9.16.

Pres. Brown shared highlights from an ACWA event.

**ADJOURNMENT:**

President Brown adjourned the meeting at 8:55 p.m.

# Accounts Payable

## Outstanding Invoices

User: KendraNegro  
 Printed: 3/30/2016 - 1:53 PM  
 Date Type: JE Date  
 Date Range: 03/11/2016 to 03/30/2016

## BILL LIST SUMMARY

Check Register Total : \$663,763.58  
 AP Outstanding Total: \$35,173.57  
 Payroll 3/16: \$89,376.38  
 Payroll 3/30: \$93,048.37  
 TOTAL FOR APPROVAL: \$881,361.90



13060 Highway 9  
 Boulder Creek, CA 95006-9119  
 (831) 338-2153 phone  
 (831) 338-7986 fax

### Vendor

| Account Number                                  | JE Date   | Invoice Date | Invoice No | Journal Entry | Amount  | Description                                |
|---|-----------|--------------|------------|---------------|---------|--|
| 00036 - CORRPRO COMPANIES INC                   |           |              |            |               |         |  |
| 01-400-5200                                     | 3/30/2016 | 3/15/2016    | 371808     | 00176-09-2016 | 125.00  | INSPECT DIGITAL DISPLAY BOARD - QUAIL TANK |
| Task Label:                                     |           | Type:        | PO Number: | 0000100421    |         |  |
| Total for Vendor 00036 - CORRPRO COMPANIES INC: |           |              |            |               | 125.00  |  |
| 00040 - SANTA CRUZ SENTINEL                     |           |              |            |               |         |  |
| 01-500-5200                                     | 3/30/2016 | 3/10/2016    | 031016     | 00176-09-2016 | 199.32  | ADVERTISING - PUBLIC HEARING               |
| Total for Vendor 00040 - SANTA CRUZ SENTINEL:   |           |              |            |               | 199.32  |  |
| 00046 - RED WING SHOE STORE                     |           |              |            |               |         |  |
| 01-400-5171                                     | 3/30/2016 | 3/25/2016    | 26655      | 00176-09-2016 | 120.15  | SAFETY SHOES FOR ANDY R.                   |
| Task Label:                                     |           | Type:        | PO Number: | 0000100402    |         |  |
| Total for Vendor 00046 - RED WING SHOE STORE:   |           |              |            |               | 120.15  |  |
| 00047 - SOIL CONTROL LAB                        |           |              |            |               |         |  |
| 01-800-5202                                     | 3/30/2016 | 2/15/2016    | 6010562A   | 00176-09-2016 | -145.00 | CREDIT INVOICE 6010562                     |
| 01-800-5202                                     | 3/30/2016 | 1/27/2016    | 6010563A   | 00176-09-2016 | -37.00  | CREDIT INVOICE 6010563                     |
| 01-800-5202                                     | 3/30/2016 | 2/3/2016     | 6010564    | 00176-09-2016 | 39.00   | WATER ANALYSIS - TOTAL PHOSPHATE           |
| 01-800-5202                                     | 3/30/2016 | 2/3/2016     | 6010722    | 00176-09-2016 | 39.00   | WATER ANALYSIS - TOTAL PHOSPHATE           |
| 01-800-5202                                     | 3/30/2016 | 2/5/2016     | 6020176    | 00176-09-2016 | 145.00  | WATER ANALYSIS - GENERAL PHYSICAL          |
| 01-800-5202                                     | 3/30/2016 | 3/14/2016    | 6020534    | 00176-09-2016 | 39.00   | WATER ANALYSIS - TOTAL PHOSPHATE           |
| 01-800-5202                                     | 3/30/2016 | 3/14/2016    | 6020535    | 00176-09-2016 | 117.00  | WATER ANALYSIS - TOTAL PHOSPHATE           |
| 01-800-5202                                     | 3/30/2016 | 3/14/2016    | 6020633    | 00176-09-2016 | 39.00   | WATER ANALYSIS - TOTAL PHOSPHATE           |
| 01-800-5202                                     | 3/30/2016 | 3/14/2016    | 6030034    | 00176-09-2016 | 39.00   | WATER ANALYSIS - TOTAL PHOSPHATE           |
| 01-800-5202                                     | 3/30/2016 | 3/14/2016    | 6030244    | 00176-09-2016 | 145.00  | WATER ANALYSIS - GENERAL PHYSICAL          |
| 01-800-5202                                     | 3/30/2016 | 3/14/2016    | 6030245    | 00176-09-2016 | 39.00   | WATER ANALYSIS - TOTAL PHOSPHATE           |
| 01-800-5202                                     | 3/30/2016 | 3/16/2016    | 6030422    | 00176-09-2016 | 145.00  | WATER ANALYSIS - GENERAL PHYSICAL          |
| 01-800-5202                                     | 3/30/2016 | 3/18/2016    | 6030424    | 00176-09-2016 | 37.00   | WATER ANALYSIS - METALS DIGESTION          |
| 01-800-5202                                     | 3/30/2016 | 3/24/2016    | 6030686    | 00176-09-2016 | 145.00  | WATER ANALYSIS - GENERAL PHYSICAL          |

| Vendor  | Account Number | JE Date   | Invoice Date | Invoice No | Journal Entry | Amount   | Description                               |
|---|----------------|-----------|--------------|------------|---------------|----------|---|
| Total for Vendor 00047 - SOIL CONTROL LAB:        |                |           |              |            |               | 786.00   |   |
| 00080 - GRANITE CONSTRUCTION CO                   |                |           |              |            |               |          |   |
|   | 01-400-5300    | 3/30/2016 | 3/1/2016     | 947069     | 00176-09-2016 | 171.89   | HOT MIX -MAIN LEAK REPAIRS                |
|   | Task Label:    |           | Type:        | PO Number: | 0000100411    |          |   |
| Total for Vendor 00080 - GRANITE CONSTRUCTION CO: |                |           |              |            |               | 171.89   |   |
| 00115 - ATKINSON-FARASYN                          |                |           |              |            |               |          |   |
|   | 01-100-5210    | 3/30/2016 | 3/14/2016    | 031416     | 00176-09-2016 | 106.50   | LEGAL SERVICES - 2/1/16 - 2/23/16         |
|   | 01-100-5210    | 3/30/2016 | 3/14/2016    | 031416a    | 00176-09-2016 | 631.25   | LEGAL SERVICES - 2/1/16 - 2/29/16 - ORD 8 |
|   | 01-100-5210    | 3/30/2016 | 3/14/2016    | 031416b    | 00176-09-2016 | 2,433.57 | LEGAL SERVICES - 1/27/16 - 3/11/16        |
| Total for Vendor 00115 - ATKINSON-FARASYN:        |                |           |              |            |               | 3,171.32 |   |
| 00118 - FARMER BROTHERS COFFEE                    |                |           |              |            |               |          |   |
|   | 01-400-5600    | 3/30/2016 | 3/9/2016     | 030916     | 00176-09-2016 | -13.38   | CREDIT                                    |
|   | 01-400-5600    | 3/30/2016 | 3/9/2016     | 63309497   | 00176-09-2016 | 176.64   | COFFEE/SUPPLIES - OPS                     |
|   | Task Label:    |           | Type:        | PO Number: | 0000100407    |          |   |
| Total for Vendor 00118 - FARMER BROTHERS COFFEE:  |                |           |              |            |               | 163.26   |   |
| 00124 - BRUCE BARTON PUMP                         |                |           |              |            |               |          |   |
|   | 02-600-5300    | 3/30/2016 | 3/10/2016    | 087838     | 00176-09-2016 | 1,569.63 | WASTEWATER PUMP REPL. DISCHARGE PUMP #6   |
|   | Task Label:    |           | Type:        | PO Number: | 0000100406    |          |   |
| Total for Vendor 00124 - BRUCE BARTON PUMP:       |                |           |              |            |               | 1,569.63 |   |
| 00125 - SCARBOROUGH LUMBER                        |                |           |              |            |               |          |   |
|   | 01-400-5410    | 3/30/2016 | 3/4/2016     | 266931     | 00175-09-2016 | 7.61     | TRAILER HITCH - INSTALL LIGHT             |
|   | Task Label:    |           | Type:        | PO Number: | 0000100387    |          |   |
|   | 01-400-5300    | 3/30/2016 | 3/6/2016     | 267005     | 00175-09-2016 | 6.74     | SILICONE CAULKING SEAL                    |
|   | Task Label:    |           | Type:        | PO Number: | 0000100379    |          |   |
|   | 02-600-5300    | 3/30/2016 | 3/9/2016     | 267170     | 00175-09-2016 | 63.77    | BCEWW CHECK VALVE                         |
|   | Task Label:    |           | Type:        | PO Number: | 0000100408    |          |   |
|   | 01-400-5300    | 3/30/2016 | 3/17/2016    | 267565     | 00175-09-2016 | 103.66   | HIGHLANDS HYDRANT REPAIRS                 |
|   | Task Label:    |           | Type:        | PO Number: | 0000100419    |          |   |
|   | 01-400-5300    | 3/30/2016 | 3/17/2016    | 267570     | 00175-09-2016 | 55.69    | FORMAN HYDRO REPLACEMENT PARTS            |
|   | Task Label:    |           | Type:        | PO Number: | 0000100418    |          |   |
|   | 01-800-5420    | 3/30/2016 | 3/22/2016    | 267842     | 00175-09-2016 | 50.30    | SUPPLIES                                  |
|   | Task Label:    |           | Type:        | PO Number: | 0000100432    |          |   |
|   | 01-800-5300    | 3/30/2016 | 3/22/2016    | 267862     | 00175-09-2016 | 9.72     | CONDUIT REPAIR                            |
|   | Task Label:    |           | Type:        | PO Number: | 0000100430    |          |   |

**Vendor**

| Account Number                                    | JE Date   | Invoice Date | Invoice No | Journal Entry         | Amount   | Description                                      |
|---|-----------|--------------|------------|-----------------------|----------|--|
| <b>00125 - SCARBOROUGH LUMBER</b>                 |           |              |            |                       |          |  |
| 01-400-5300                                       | 3/30/2016 | 3/23/2016    | 267936     | 00175-09-2016         | 27.85    | FLEX COUPLING                                    |
| Task Label:                                       |           | Type:        |            | PO Number: 0000100433 |          |  |
| 01-400-5420                                       | 3/30/2016 | 2/26/2016    | 543766     | 00175-09-2016         | 43.91    | HOUSEHOLD SUPPLIES - OPS                         |
| Task Label:                                       |           | Type:        |            | PO Number: 0000100368 |          |  |
| Total for Vendor 00125 - SCARBOROUGH LUMBER:      |           |              |            |                       | 369.25   |  |
| <b>00130 - BOULDER CREEK HARDWARE</b>             |           |              |            |                       |          |  |
| 01-400-5311                                       | 3/30/2016 | 3/4/2016     | 3488       | 00175-09-2016         | 11.00    | CHAIN SAW SHARPENING                             |
| Task Label:                                       |           | Type:        |            | PO Number: 0000100388 |          |  |
| Total for Vendor 00130 - BOULDER CREEK HARDWARE:  |           |              |            |                       | 11.00    |  |
| <b>00142 - SAN LORENZO LUMBER</b>                 |           |              |            |                       |          |  |
| 01-800-5300                                       | 3/30/2016 | 3/1/2016     | 64698      | 00175-09-2016         | 330.26   | MISC SUPPLIES - BENNETT                          |
| Task Label:                                       |           | Type:        |            | PO Number: 0000100378 |          |  |
| 01-800-5300                                       | 3/30/2016 | 3/8/2016     | 65042      | 00175-09-2016         | 123.93   | BLDG MATERIALS-BENNETT                           |
| Task Label:                                       |           | Type:        |            | PO Number: 0000100409 |          |  |
| Total for Vendor 00142 - SAN LORENZO LUMBER:      |           |              |            |                       | 454.19   |  |
| <b>00164 - FIRST ALARM</b>                        |           |              |            |                       |          |  |
| 02-600-5200                                       | 3/30/2016 | 3/7/2016     | 305426     | 00176-09-2016         | 618.74   | BEAR CREEK WASTEWATER ALARM SERVICE-SOLAR PANELS |
| Task Label:                                       |           | Type:        |            | PO Number: 0000100405 |          |  |
| 01-800-5300                                       | 3/30/2016 | 3/7/2016     | 905433     | 00176-09-2016         | 133.06   | ALARM SERVICE MANANA WOODS TREATMENT PLANT       |
| Task Label:                                       |           | Type:        |            | PO Number: 0000100405 |          |  |
| 01-400-5200                                       | 3/30/2016 | 3/15/2016    | 906269     | 00176-09-2016         | 90.06    | ALARM SERVICE - 101 QUAIL HOLLOW                 |
| 01-800-5200                                       | 3/30/2016 | 3/15/2016    | 906369     | 00176-09-2016         | 115.38   | ALARM SERVICE - 365 MADRONE DR                   |
| 01-400-5200                                       | 3/30/2016 | 3/15/2016    | 906463     | 00176-09-2016         | 511.59   | ALARM SERVICE - 13057 HWY 9                      |
| 02-600-5200                                       | 3/30/2016 | 3/15/2016    | 908039     | 00176-09-2016         | 333.57   | ALARM SERVICE - 15900 BEAR CREEK RD              |
| 01-800-5200                                       | 3/30/2016 | 3/15/2016    | 908040     | 00176-09-2016         | 279.24   | ALARM SERVICE - 232 KINGS VILLAGE RD             |
| 01-800-5200                                       | 3/30/2016 | 3/15/2016    | 908041     | 00176-09-2016         | 162.30   | ALARM SERVICE - 600 SAN LORENZO AVE              |
| 01-800-5200                                       | 3/30/2016 | 3/15/2016    | 908042     | 00176-09-2016         | 207.30   | ALARM SERVICE - 195 KIRBY ST                     |
| Total for Vendor 00164 - FIRST ALARM:             |           |              |            |                       | 2,451.24 |  |
| <b>00168 - SCOTTS VALLEY SPRINKLER</b>            |           |              |            |                       |          |  |
| 01-800-5300                                       | 3/30/2016 | 3/18/2016    | 143755     | 00175-09-2016         | 99.03    | FORMAN - HYDRO - Y STRAINER                      |
| Task Label:                                       |           | Type:        |            | PO Number: 0000100416 |          |  |
| Total for Vendor 00168 - SCOTTS VALLEY SPRINKLER: |           |              |            |                       | 99.03    |  |
| <b>00181 - LAS ANIMAS CONCRETE</b>                |           |              |            |                       |          |  |

| Vendor  | Account Number           | JE Date   | Invoice Date | Invoice No | Journal Entry | Amount   | Description                                |
|---|--------------------------|-----------|--------------|------------|---------------|----------|--|
| 00181 - LAS ANIMAS CONCRETE                             | 01-400-5300              | 3/30/2016 | 2/26/2016    | 116363     | 00175-09-2016 | 346.74   | SLURRY - CAMP CABELL                       |
|   | Task Label:              |           | Type:        | PO Number: | 0000100375    |          |  |
| Total for Vendor 00181 - LAS ANIMAS CONCRETE:           |                          |           |              |            |               | 346.74   |  |
| 00204 - FEDERAL EXPRESS CORP                            | 01-200-5650              | 3/30/2016 | 3/25/2016    | 22989      | 00176-09-2016 | 35.39    | SHIPPING CHARGES                           |
|   | 01-100-5650              | 3/30/2016 | 3/11/2016    | 94832      | 00176-09-2016 | 20.96    | SHIPPING CHARGES                           |
|   | 01-800-5300              | 3/30/2016 | 3/11/2016    | 94832      | 00176-09-2016 | 72.10    | SHIPPING CHARGES                           |
|   | Task Label:              |           | Type:        | PO Number: | 0000100424    |          |  |
| Total for Vendor 00204 - FEDERAL EXPRESS CORP:          |                          |           |              |            |               | 128.45   |  |
| 00216 - BOULDER CREEK AUTO PARTS                        | 01-400-5410              | 3/30/2016 | 3/28/2016    | 60404      | 00175-09-2016 | 5.73     | TRUCK 155 - TAIL LIGHT BULB                |
|   | Task Label:              |           | Type:        | PO Number: | 0000100420    |          |  |
|   | 01-400-5311              | 3/30/2016 | 3/23/2016    | 60649      | 00175-09-2016 | 4.52     | FUSE                                       |
|   | Task Label:              |           | Type:        | PO Number: | 0000100431    |          |  |
| Total for Vendor 00216 - BOULDER CREEK AUTO PARTS:      |                          |           |              |            |               | 10.25    |  |
| 00220 - BAY BUILDING JANITORIAL,INC                     | 01-100-5420              | 3/30/2016 | 3/15/2016    | 28257      | 00176-09-2016 | 424.42   | JANITORIAL SERVICE - MAR 2016              |
| Total for Vendor 00220 - BAY BUILDING JANITORIAL,INC:   |                          |           |              |            |               | 424.42   |  |
| 00265 - COMMUNITY TELEVISION OF                         | 01-100-5200              | 3/30/2016 | 3/15/2016    | 2272       | 00176-09-2016 | 175.00   | CONTRACT SERVICES - BOARD COVERAGE 2/18/16 |
|   | 01-100-5200              | 3/30/2016 | 3/15/2016    | 2272       | 00176-09-2016 | 200.00   | CONTRACT SERVICES - BOARD COVERAGE 2/4/16  |
| Total for Vendor 00265 - COMMUNITY TELEVISION OF:       |                          |           |              |            |               | 375.00   |  |
| 00296 - MESITI-MILLER ENGINEERING,INC                   | 01-000-1565              | 3/30/2016 | 2/29/2016    | 216049     | 00176-09-2016 | 4,065.60 | PROBATION TANK REPLACEMENT - FINAL DESIGN  |
|   | Task Label: CAP-1516002A |           | Type: E      | PO Number: |               |          |  |
| Total for Vendor 00296 - MESITI-MILLER ENGINEERING,INC: |                          |           |              |            |               | 4,065.60 |  |
| 00302 - POLLARDWATER.COM                                | 01-400-5300              | 3/30/2016 | 3/14/2016    | 37482      | 00176-09-2016 | 277.33   | FLUSHING SUPPLIES - STREAM SHAPER          |
|   | Task Label:              |           | Type:        | PO Number: | 0000100382    |          |  |
|   | 01-800-5300              | 3/30/2016 | 3/15/2016    | 38323      | 00176-09-2016 | 448.79   | CL2 TABLETS FOR WT                         |
|   | Task Label:              |           | Type:        | PO Number: | 0000100425    |          |  |

**Vendor**

| Account Number  | JE Date   | Invoice Date | Invoice No | Journal Entry | Amount          | Description                            |
|---|-----------|--------------|------------|---------------|-----------------|--|
| <b>00302 - POLLARDWATER.COM</b>                                 |           |              |            |               |                 |  |
| 01-800-5311   | 3/30/2016 | 3/16/2016    | 38420      | 00176-09-2016 | 365.94          | PITOT GAUGES                           |
| Task Label:   |           | Type:        | PO Number: | 0000100428    |                 |  |
| <b>Total for Vendor 00302 - POLLARDWATER.COM:</b>               |           |              |            |               | <b>1,092.06</b> |  |
| <b>00450 - EUROFINS EATON ANALYTICAL, INC</b>                   |           |              |            |               |                 |  |
| 01-800-5202   | 3/30/2016 | 3/9/2016     | 255246     | 00176-09-2016 | 80.00           | WATER ANALYSIS - PASO                  |
| 01-800-5202   | 3/30/2016 | 3/18/2016    | 256409     | 00176-09-2016 | 60.00           | WATER ANALYSIS - BENNETT SPRING        |
| 01-800-5202   | 3/30/2016 | 3/21/2016    | 256670     | 00176-09-2016 | 80.00           | WATER ANALYSIS - PASO                  |
| 01-800-5202   | 3/30/2016 | 3/24/2016    | 257150     | 00176-09-2016 | 100.00          | ARESENIC TOTAL ICAP/MS - PASO          |
| 01-800-5202   | 3/30/2016 | 3/28/2016    | 257628     | 00176-09-2016 | 680.00          | WATER ANALYSIS - CLEAR CREEK           |
| 01-800-5202   | 3/30/2016 | 3/28/2016    | 257649     | 00176-09-2016 | 680.00          | WATER ANALYSIS -SWEETWATER             |
| 01-800-5202   | 3/30/2016 | 3/28/2016    | 257650     | 00176-09-2016 | 680.00          | WATER ANALYSIS - PEAVINE               |
| 01-800-5202   | 3/30/2016 | 3/28/2016    | 257651     | 00176-09-2016 | 680.00          | WATER ANALYSIS - FOREMAN               |
| 01-800-5202   | 3/30/2016 | 3/28/2016    | 257653     | 00176-09-2016 | 680.00          | WATER ANALYSIS - FALL CREEK            |
| 01-800-5202   | 3/30/2016 | 3/28/2016    | 257654     | 00176-09-2016 | 680.00          | WATER ANALYSIS - BULL SPRING 1         |
| 01-800-5202   | 3/30/2016 | 3/28/2016    | 257655     | 00176-09-2016 | 680.00          | WATER ANALYSIS - BULL SPRING 2         |
| <b>Total for Vendor 00450 - EUROFINS EATON ANALYTICAL, INC:</b> |           |              |            |               | <b>5,080.00</b> |  |
| <b>00478 - MWH AMERICAS</b>                                     |           |              |            |               |                 |  |
| 01-100-5200   | 3/30/2016 | 3/9/2016     | 1707628    | 00176-09-2016 | 1,323.75        | CONSULTING SERVICES - 1-16-16 - 3/4/16 |
| <b>Total for Vendor 00478 - MWH AMERICAS:</b>                   |           |              |            |               | <b>1,323.75</b> |  |
| <b>00566 - C S S C</b>  |           |              |            |               |                 |  |
| 01-400-5510   | 3/30/2016 | 3/22/2016    | 16030      | 00176-09-2016 | 272.50          | ANSWERING SERVICE                      |
| <b>Total for Vendor 00566 - C S S C:</b>                        |           |              |            |               | <b>272.50</b>   |  |
| <b>00582 - OLIVE SPRINGS QUARRY</b>                             |           |              |            |               |                 |  |
| 01-400-5300   | 3/30/2016 | 3/23/2016    | 60352      | 00175-09-2016 | 73.93           | HOT MIX                                |
| Task Label:   |           | Type:        | PO Number: | 0000100427    |                 |  |
| <b>Total for Vendor 00582 - OLIVE SPRINGS QUARRY:</b>           |           |              |            |               | <b>73.93</b>    |  |
| <b>00589 - ALLARD'S SEPTIC</b>                                  |           |              |            |               |                 |  |
| 01-800-5200   | 3/30/2016 | 3/14/2016    | 7113       | 00176-09-2016 | 300.00          | KIRBY HOLDING TANK / HAUL AWAY         |
| Task Label:   |           | Type:        | PO Number: | 0000100422    |                 |  |
| <b>Total for Vendor 00589 - ALLARD'S SEPTIC:</b>                |           |              |            |               | <b>300.00</b>   |  |

| Vendor   | Account Number | JE Date   | Invoice Date | Invoice No   | Journal Entry | Amount   | Description                                 |
|--|----------------|-----------|--------------|--------------|---------------|----------|---|
| 00625 - OFFICE DEPOT                                 | 01-200-5600    | 3/30/2016 | 3/4/2016     | 827833485001 | 00176-09-2016 | 61.64    | STAR MICRO RIBBON                           |
| Total for Vendor 00625 - OFFICE DEPOT:               |                |           |              |              |               | 61.64    |   |
| 00711 - ROBERTS & BRUNE CO.                          | 01-400-5300    | 3/30/2016 | 3/14/2016    | S1535830.005 | 00175-09-2016 | -194.76  | 8" FLAP VALVE RIVERSIDE GROVE TANK OVERFLOW |
|  | 01-400-5300    | 3/30/2016 | 3/14/2016    | S1535830.006 | 00175-09-2016 | 236.70   | 8" FLAP VALVE RIVERSIDE GROVE TANK OVERFLOW |
|  | Task Label:    |           | Type:        | PO Number:   | 0000100423    |          |   |
| Total for Vendor 00711 - ROBERTS & BRUNE CO.:        |                |           |              |              |               | 41.94    |   |
| 00721 - UNITED SITE SVCS.,INC                        | 01-400-5200    | 3/30/2016 | 3/15/2016    | 3842490      | 00176-09-2016 | 157.18   | QUAIL 5 TOILET - SERVICE AND CLEANING       |
|  | Task Label:    |           | Type:        | PO Number:   | 0000100263    |          |   |
| Total for Vendor 00721 - UNITED SITE SVCS.,INC:      |                |           |              |              |               | 157.18   |   |
| 00729 - ALPHA ANALYTICAL LABS                        | 02-600-5202    | 3/30/2016 | 3/15/2016    | 6032123      | 00176-09-2016 | 926.00   | WATER ANALYSIS - WASTEWATER MONITORING      |
| Total for Vendor 00729 - ALPHA ANALYTICAL LABS:      |                |           |              |              |               | 926.00   |   |
| 00746 - SCOTTS VALLEY BANNER                         | 01-100-5640    | 3/30/2016 | 3/11/2016    | 28392        | 00176-09-2016 | 208.00   | FLUSHING AD                                 |
|  | 01-100-5640    | 3/30/2016 | 3/18/2016    | 28731        | 00176-09-2016 | 208.00   | FLUSHING AD                                 |
| Total for Vendor 00746 - SCOTTS VALLEY BANNER:       |                |           |              |              |               | 416.00   |   |
| 00988 - PETE'S OUTFLOW TECHNICIANS                   | 02-600-5200    | 3/30/2016 | 3/7/2016     | 9460         | 00176-09-2016 | 6,880.00 | BCEWW PUMPING - HEAVY RAINS                 |
|  | Task Label:    |           | Type:        | PO Number:   | 0000100401    |          |   |
| Total for Vendor 00988 - PETE'S OUTFLOW TECHNICIANS: |                |           |              |              |               | 6,880.00 |   |
| 10025 - BADGER METER, INC                            | 01-400-5200    | 3/30/2016 | 3/23/2016    | 80006064     | 00176-09-2016 | 66.75    | BEACON CELLULAR STANDARD                    |
|  | Task Label:    |           | Type:        | PO Number:   | 0000100262    |          |   |
| Total for Vendor 10025 - BADGER METER, INC:          |                |           |              |              |               | 66.75    |   |
| 10028 - FLYERS ENERGY LLC                            | 01-400-5300    | 3/30/2016 | 3/10/2016    | 16-220867    | 00176-09-2016 | 665.08   | GASOLINE DELIVERY FOR FUEL CELL             |

**Vendor**

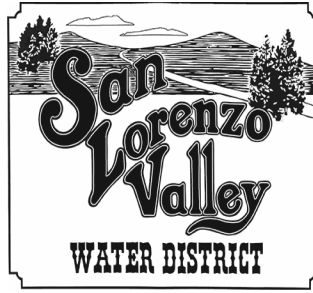
| Account Number                                   | JE Date   | Invoice Date | Invoice No | Journal Entry | Amount    | Description                |
|--|-----------|--------------|------------|---------------|-----------|----------------------------|
| 10028 - FLYERS ENERGY LLC                        |           |              |            |               |           |                            |
| Task Label:                                      |           | Type:        | PO Number: | 0000100404    |           |                            |
| Total for Vendor 10028 - FLYERS ENERGY LLC:      |           |              |            |               | 665.08    |                            |
| 10067 - NBS                                      |           |              |            |               |           |                            |
| 01-100-5200                                      | 3/30/2016 | 3/7/2016     | 2160056    | 00176-09-2016 | 1,275.00  | FININACIAL STUDY           |
| Task Label: EXP-1516002A                         |           | Type: E      | PO Number: |               |           |                            |
| Total for Vendor 10067 - NBS:                    |           |              |            |               | 1,275.00  |                            |
| 10070 - CA SCHOOL BOARDS ASSOC                   |           |              |            |               |           |                            |
| 01-100-5200                                      | 3/30/2016 | 3/15/2016    | Z4S2B2     | 00176-09-2016 | 1,500.00  | 2015-16 GASB 45 AMM REPORT |
| Total for Vendor 10070 - CA SCHOOL BOARDS ASSOC: |           |              |            |               | 1,500.00  |                            |
| Report Total:                                    |           |              |            |               | 35,173.57 |                            |



# Accounts Payable

## Checks by Date - Detail by Check Number

User: KendraNegro  
Printed: 3/30/2016 1:52 PM



13060 Highway 9  
Boulder Creek, CA 95006-9119  
(831) 338-2153 phone  
(831) 338-7986 fax

| Check No                      | Vendor No<br>Invoice No             | Vendor Name<br>Description  | Check Date<br>Reference | Void Checks | Check Amount                     |
|-------------------------------|-------------------------------------|---|-------------------------|-------------|----------------------------------|
| 10871                         | 00069<br>031416                     | SAN LORENZO VALLEY<br>WATER SANTA CRUZ COUNTY<br>FUND   | 03/14/2016              |             | 500,000.00                       |
| Total for Check Number 10871: |                                     |   |                         | 0.00        | 500,000.00                       |
| 10872                         | 10023<br>2981649                    | AT & T CAPITAL SERVICES, INC<br>TELEPHONE MAINTENANCE   | 03/17/2016              |             | 396.07                           |
| Total for Check Number 10872: |                                     |   |                         | 0.00        | 396.07                           |
| 10873                         | 00687<br>030516<br>030616<br>030716 | AT&T U-VERSE<br>INTERNET SERVICE - OPS<br>INTERNET SERVICE - MANANA WOODS<br>INTERNET SERVICE - QUAIL TERRACE | 03/17/2016              |             | 70.00<br>77.00<br>67.00          |
| Total for Check Number 10873: |                                     |   |                         | 0.00        | 214.00                           |
| 10874                         | 00220<br>28116                      | BAY BUILDING JANITORIAL, INC<br>JANITORIAL SERVICE - FEB 2016   | 03/17/2016              |             | 424.42                           |
| Total for Check Number 10874: |                                     |   |                         | 0.00        | 424.42                           |
| 10875                         | 00486<br>CJH9754                    | CDW-G COMPUTING<br>LAPTOP TOSHIBA TECRA Z50   | 03/17/2016              |             | 1,497.85                         |
| Total for Check Number 10875: |                                     |   |                         | 0.00        | 1,497.85                         |
| 10876                         | 00788<br>030316                     | COMCAST<br>INTERNET SERVICE - 545 FALL CREEK  | 03/17/2016              |             | 162.11                           |
| Total for Check Number 10876: |                                     |   |                         | 0.00        | 162.11                           |
| 10877                         | 00290<br>6566<br>6566<br>6566       | CONTRACTOR COMPLIANCE & MONI<br>INTERTIE # 2 - PHASE 2<br>INTERTIE # 4 - PHASE 2<br>INTERTIE # 3 - PHASE 2    | 03/17/2016              |             | 1,250.00<br>1,250.00<br>1,250.00 |
| Total for Check Number 10877: |                                     |   |                         | 0.00        | 3,750.00                         |
| 10878                         | 10005<br>031515                     | ICMA RETIREMENT C/O M & T RETIRI<br>WITHHOLDING - RETIREMENT  | 03/17/2016              |             | 1,535.00                         |
| Total for Check Number 10878: |                                     |   |                         | 0.00        | 1,535.00                         |
| 10879                         | 10017<br>031416                     | JEN MICHELSEN<br>EMPLOYEE REIMBURSEMENT   | 03/17/2016              |             | 282.40                           |
| Total for Check Number 10879: |                                     |   |                         | 0.00        | 282.40                           |
| 10880                         | 00093<br>030416                     | JOHN TREGEMBO<br>EMPLOYEE REIMBURSEMENT - UNIFORM   | 03/17/2016              |             | 203.49                           |

| Check No | Vendor No<br>Invoice No       | Vendor Name<br>Description   | Check Date<br>Reference       | Void Checks | Check Amount         |
|----------|-------------------------------|--|-------------------------------|-------------|----------------------|
|          |                               |  | Total for Check Number 10880: | 0.00        | 203.49               |
| 10881    | 00539<br>0116SLV<br>0216SLV   | MILLER-MAXFIELD, INC<br>PUBLIC OUTREACH CONSULTING - JAN 2016<br>PUBLIC OUTREACH CONSULTING - FEB 2016 | 03/17/2016                    |             | 2,931.25<br>2,781.25 |
|          |                               |  | Total for Check Number 10881: | 0.00        | 5,712.50             |
| 10882    | 00383<br>1103169-5            | A TOOL SHED EQUIPMENT<br>CHIPPER RENTAL - FELTON HEIGHTS TAN   | 03/18/2016                    |             | 194.34               |
|          |                               |  | Total for Check Number 10882: | 0.00        | 194.34               |
| 10883    | 00362<br>32732                | ACCELA, INC #774375<br>WEB PYMT. TRANSACTION FEES  | 03/18/2016                    |             | 1,904.00             |
|          |                               |  | Total for Check Number 10883: | 0.00        | 1,904.00             |
| 10884    | 00384<br>316-03               | D W ALLEY & ASSOCIATES<br>FALL CREEK FISH LADDER   | 03/18/2016                    |             | 627.20               |
|          |                               |  | Total for Check Number 10884: | 0.00        | 627.20               |
| 10885    | 00729<br>6021301              | ALPHA ANALYTICAL LABS<br>WATER ANALYSIS - WW MONITORING  | 03/18/2016                    |             | 390.00               |
|          |                               |  | Total for Check Number 10885: | 0.00        | 390.00               |
| 10886    | 10025<br>80005713             | BADGER METER, INC<br>BEACON CELLULAR STANDARD  | 03/18/2016                    |             | 66.75                |
|          |                               |  | Total for Check Number 10886: | 0.00        | 66.75                |
| 10887    | 00145<br>297107               | BATTERIES PLUS<br>UPS BATTERIES - REPLACEMENT FOR ADI  | 03/18/2016                    |             | 154.40               |
|          |                               |  | Total for Check Number 10887: | 0.00        | 154.40               |
| 10888    | 00342<br>48905                | BRASS KEY LOCKSMITH<br>MASTER LOCK 3704 2" LOOP 12 MASTER  | 03/18/2016                    |             | 302.69               |
|          |                               |  | Total for Check Number 10888: | 0.00        | 302.69               |
| 10889    | 00213<br>102767               | CHESTNUT IDENTITY<br>UNIFORMS - NATE GILLESPIE   | 03/18/2016                    |             | 309.03               |
|          |                               |  | Total for Check Number 10889: | 0.00        | 309.03               |
| 10890    | 00290<br>6769                 | CONTRACTOR COMPLIANCE & MONI<br>INTERTIE MONITORING  | 03/18/2016                    |             | 550.00               |
|          |                               |  | Total for Check Number 10890: | 0.00        | 550.00               |
| 10891    | 00273<br>81671442<br>81671442 | CORELOGIC, INC.<br>REALQUEST - FINANCE<br>REALQUEST - ENGINEERING                                      | 03/18/2016                    |             | 93.75<br>93.75       |
|          |                               |  | Total for Check Number 10891: | 0.00        | 187.50               |
| 10892    | 00212<br>78219                | COUNTY OF SANTA CRUZ<br>ANNUAL HAZ-MAT PERMIT PASO 6   | 03/18/2016                    |             | 742.00               |

| Check No | Vendor No<br>Invoice No                                      | Vendor Name<br>Description   | Check Date<br>Reference       | Void Checks | Check Amount                                    |
|----------|--|--|-------------------------------|-------------|---|
|          |  |  | Total for Check Number 10892: | 0.00        | 742.00  |
| 10893    | 00076<br>647459<br>649667                                    | ERNIE'S AUTO CENTER<br>FORMAN - HYDRO REPLACEMENT FA - 20:<br>TRAILER PARTS - WIRING AND LIGHTS - V  | 03/18/2016                    |             | 67.68<br>173.90                                 |
|          |  |  | Total for Check Number 10893: | 0.00        | 241.58  |
| 10894    | 00343<br>49432<br>49748                                      | ERNIE'S SERVICE CENTER<br>TRUCK 340 - NEW TRANSMISSION VE-340<br>TRUCK 180 - SAFETY INSPECTION   | 03/18/2016                    |             | 3,498.05<br>626.05                              |
|          |  |  | Total for Check Number 10894: | 0.00        | 4,124.10  |
| 10895    | 00450<br>252578<br>253373<br>253374<br>253376<br>254229      | EUROFINS EATON ANALYTICAL, INC<br>WATER ANALYSIS - PASO ARSENIC<br>WATER ANALYSIS - HWY 9, VIEW CIRCLE<br>WATER ANALYSIS - MIRA FLORES<br>WATER ANALYSIS - VARIOUS SAMPLE SIT<br>WATER ANALYSIS - PASO 5A, 6, BOB'S LN | 03/18/2016                    |             | 80.00<br>400.00<br>200.00<br>800.00<br>80.00    |
|          |  |  | Total for Check Number 10895: | 0.00        | 1,560.00  |
| 10896    | 00164<br>864783<br>878225                                    | FIRST ALARM<br>KIRBY PLANT ALARM SERVICE<br>KIRBY PLANT ALARM SERVICE  | 03/18/2016                    |             | 86.25<br>95.00                                  |
|          |  |  | Total for Check Number 10896: | 0.00        | 181.25  |
| 10897    | 00080<br>937378<br>940842<br>942031<br>943398                | GRANITE CONSTRUCTION CO<br>BASE ROCK - CASITA WAY<br>FILL SAND - WANER WAY - ZAYANTE<br>QUAIL BINS - BASE ROCK<br>HOT MIX-MAIN REPAIRS- 10 LOCATIONS   | 03/18/2016                    |             | 35.61<br>62.76<br>87.25<br>259.12               |
|          |  |  | Total for Check Number 10897: | 0.00        | 444.74  |
| 10898    | 00016<br>1968651   | GREENWASTE RECOVERY,INC<br>BUILDING MAINTENANCE  | 03/18/2016                    |             | 262.82  |
|          |  |  | Total for Check Number 10898: | 0.00        | 262.82  |
| 10899    | 00550<br>9710733<br>9808642<br>9810738<br>9819090<br>9823699 | HACH COMPANY<br>LAB SUPPLIES - SUPPLIES FOR LYON PLA<br>LAB SUPPLIES - SUPPLIES FOR LYON PLA<br>POCKET COLOROMETERS<br>LAB SUPPLIES - LYON PLANT<br>LAB SUPPLIES - LYON PLANT  | 03/18/2016                    |             | 53.66<br>1,026.29<br>978.31<br>114.24<br>196.62 |
|          |  |  | Total for Check Number 10899: | 0.00        | 2,369.12  |
| 10900    | 10060<br>1889251   | HELLO DIRECT, INC<br>FINANCE OFFICE SUPPLIES - HEADSET   | 03/18/2016                    |             | 273.21  |
|          |  |  | Total for Check Number 10900: | 0.00        | 273.21  |
| 10901    | 00236<br>298227413   | IDEXX DISTRIBUTION CORP<br>LAB SUPPLIES FOR LYON PLANT   | 03/18/2016                    |             | 1,283.35  |
|          |  |  | Total for Check Number 10901: | 0.00        | 1,283.35  |

| Check No                      | Vendor No<br>Invoice No | Vendor Name<br>Description             | Check Date<br>Reference | Void Checks | Check Amount |
|-------------------------------|-------------------------|--|-------------------------|-------------|--------------|
| 10902                         | 00367                   | INFOSEND, INC                          | 03/18/2016              |             |              |
|                               | 102742                  | MAILING SERVICES                       |                         |             | 1,097.98     |
|                               | 102742                  | POSTAGE - BILLING                      |                         |             | 2,653.64     |
| Total for Check Number 10902: |                         |  |                         | 0.00        | 3,751.62     |
| 10903                         | 00695                   | PAUL JENSEN                            | 03/18/2016              |             |              |
|                               | 013116                  | SURVEY WORK - LOST ACRES DR            |                         |             | 1,750.00     |
|                               | 123015                  | SURVEY WORK                            |                         |             | 730.00       |
| Total for Check Number 10903: |                         |  |                         | 0.00        | 2,480.00     |
| 10904                         | 00022                   | JOHNS ELECTRIC MOTOR                   | 03/18/2016              |             |              |
|                               | 13112                   | SOUTH BOOSTER - PUMP AND MOTOR RE      |                         |             | 224.67       |
|                               | 13123                   | FELTON HEIGHTS - BOOSTER PUMP REPAI    |                         |             | 853.74       |
| Total for Check Number 10904: |                         |  |                         | 0.00        | 1,078.41     |
| 10905                         | 00756                   | KENNEDY/JENKS CONSULTANTS              | 03/18/2016              |             |              |
|                               | 99463                   | INTERTIE #2 PROJECT                    |                         |             | 7,620.00     |
|                               | 99463                   | INTERTIE #4 PROJECT                    |                         |             | 4,270.87     |
|                               | 99463                   | INTERTIE #3 PROJECT                    |                         |             | 24,608.07    |
| Total for Check Number 10905: |                         |  |                         | 0.00        | 36,498.94    |
| 10906                         | 00336                   | LAND TRUST OF SANTA CRUZ CNTY          | 03/18/2016              |             |              |
|                               | 2-2016                  | OLYMPIA PATROL SERVICE                 |                         |             | 915.60       |
| Total for Check Number 10906: |                         |  |                         | 0.00        | 915.60       |
| 10907                         | 00782                   | MONTEREY PENINSULA ENGINEERIN          | 03/18/2016              |             |              |
|                               | 02-12                   | INTERTIE # 3 PROJECT                   |                         |             | 11,209.50    |
|                               | 02-12                   | INTERTIE # 3 PROJECT - 5% RETENTION    |                         |             | -560.48      |
| Total for Check Number 10907: |                         |  |                         | 0.00        | 10,649.02    |
| 10908                         | 00625                   | OFFICE DEPOT                           | 03/18/2016              |             |              |
|                               | 823627713001            | OFFICE SUPPLIES - BINDER CLIPS & ADDF  |                         |             | 153.48       |
|                               | 823627713001            | OFFICE SUPPLIES - POCKET PORTFOLIOS    |                         |             | 10.81        |
|                               | 825023217001            | OFFICE SUPPLIES - SWIFFER DUSTER & RI  |                         |             | 33.15        |
|                               | 825023217001            | OFFICE SUPPLIES - PENCILS & FIRST AID  |                         |             | 66.30        |
|                               | 826311506001            | OFFICE SUPPLIES - PRINTER INK          |                         |             | 81.72        |
|                               | 826311506001            | OFFICE SUPPLIES - DIVIDER TABS, UTILIT |                         |             | 33.70        |
| Total for Check Number 10908: |                         |  |                         | 0.00        | 379.16       |
| 10909                         | 00944                   | PDN CONSULTING                         | 03/18/2016              |             |              |
|                               | 1194                    | SERVER ANTI VIRUS UPG - ANTI VIRUS SC  |                         |             | 750.00       |
| Total for Check Number 10909: |                         |  |                         | 0.00        | 750.00       |
| 10910                         | 00302                   | POLLARDWATER.COM                       | 03/18/2016              |             |              |
|                               | 36730                   | FLUSHING SUPPLIES - D-CHLOR AND FLU    |                         |             | 1,284.28     |
|                               | 37356                   | FLUSHING ELBOWS - 2 EACH               |                         |             | 360.84       |
| Total for Check Number 10910: |                         |  |                         | 0.00        | 1,645.12     |
| 10911                         | 00263                   | RAYNE WATER CONDITIONING               | 03/18/2016              |             |              |
|                               | 022916                  | WATER SOFTENER SERVICE                 |                         |             | 31.75        |
| Total for Check Number 10911: |                         |  |                         | 0.00        | 31.75        |

| Check No                      | Vendor No<br>Invoice No   | Vendor Name<br>Description  | Check Date<br>Reference | Void Checks | Check Amount   |
|-------------------------------|---|---|-------------------------|-------------|--|
| 10912                         | 10001<br>739983   | RUTAN AND TUCKER, LLP<br>LEGAL SERVICES   | 03/18/2016              |             | 34.00  |
|                               |   |   |                         |             | <hr/>  |
| Total for Check Number 10912: |   |   |                         | 0.00        | 34.00  |
| 10913                         | 10019<br>160227-1   | SCHWARZBACH ASSOCIATES, INC.<br>JOHNSON BUILDING MAINTENANCE  | 03/18/2016              |             | 585.00   |
|                               |   |   |                         |             | <hr/>  |
| Total for Check Number 10913: |   |   |                         | 0.00        | 585.00   |
| 10914                         | 00746<br>28016<br>28273   | SCOTTS VALLEY BANNER<br>NEW FLUSHING AD<br>NEW FLUSHING AD  | 03/18/2016              |             | 208.00<br>208.00   |
|                               |   |   |                         |             | <hr/>  |
| Total for Check Number 10914: |   |   |                         | 0.00        | 416.00   |
| 10915                         | 00047<br>6020533<br>6020536<br>6020632<br>6020634<br>6030033      | SOIL CONTROL LAB<br>WATER ANALYSIS - GENERAL PHYSICAL<br>WATER ANALYSIS - METALS DIGESTION<br>WATER ANALYSIS - GENERAL PHYSICAL<br>WATER ANALYSIS - METALS DIGESTION<br>WATER ANALYSIS - GENERAL PHYSICAL | 03/18/2016              |             | 145.00<br>123.00<br>145.00<br>37.00<br>145.00            |
|                               |   |   |                         |             | <hr/>  |
| Total for Check Number 10915: |   |   |                         | 0.00        | 595.00   |
| 10916                         | 00266<br>21716  | TERMINIX<br>CONTRACT SERVICES - PEST CONTROL  | 03/18/2016              |             | 120.00   |
|                               |   |   |                         |             | <hr/>  |
| Total for Check Number 10916: |   |   |                         | 0.00        | 120.00   |
| 10917                         | 00129<br>133296423-001<br>133922845-003                           | UNITED RENTALS NORTHWEST INC<br>FUEL CELL RENTAL - EL NINO PREP<br>GENERATOR RENTAL-EL NINO PREP  | 03/18/2016              |             | 1,947.50<br>2,116.80                                     |
|                               |   |   |                         |             | <hr/>  |
| Total for Check Number 10917: |   |   |                         | 0.00        | 4,064.30   |
| 10918                         | 01053<br>11755  | WATERWAYS CONSULTING, INC.<br>FALL CREEK FISH LADDER FINAL DESIGN   | 03/18/2016              |             | 3,102.50   |
|                               |   |   |                         |             | <hr/>  |
| Total for Check Number 10918: |   |   |                         | 0.00        | 3,102.50   |
| 10919                         | 00259<br>58071  | WESTECH<br>RETAINING SCREENS - UNIT 2 LYON PLAN   | 03/18/2016              |             | 3,810.54   |
|                               |   |   |                         |             | <hr/>  |
| Total for Check Number 10919: |   |   |                         | 0.00        | 3,810.54   |
| 10920                         | 00545<br>MARCH 2016   | AFLAC<br>SUPPLEMENTAL INSURANCE - MARCH 20  | 03/24/2016              |             | 555.64   |
|                               |   |   |                         |             | <hr/>  |
| Total for Check Number 10920: |   |   |                         | 0.00        | 555.64   |
| 10921                         | 00309<br>031116<br>031116<br>031116<br>031916<br>031916<br>031916 | AT&T IP SERVICES<br>IP SERVICES - ADMIN<br>IP SERVICES - OPS<br>IP SERVICES - WTP<br>IP SERVICES - OPS<br>IP SERVICES - WTP<br>IP SERVICES - ADMIN  | 03/24/2016              |             | 241.96<br>241.97<br>241.96<br>380.99<br>381.00<br>381.00 |
|                               |   |   |                         |             | <hr/>  |
| Total for Check Number 10921: |   |   |                         | 0.00        | 1,868.88   |
| 10922                         | 00686   | AT&T LONG DISTANCE  | 03/24/2016              |             |  |

| Check No                      | Vendor No<br>Invoice No | Vendor Name<br>Description         | Check Date<br>Reference | Void Checks | Check Amount |
|-------------------------------|-------------------------|------------------------------------|-------------------------|-------------|--------------|
|                               | 031316                  | LONG DISTANCE - OPS                |                         |             | 112.62       |
|                               | 031316                  | LONG DISTANCE - WTP                |                         |             | 25.60        |
|                               | 031316                  | LONG DISTANCE - ADMIN              |                         |             | 3.20         |
| Total for Check Number 10922: |                         |                                    |                         | 0.00        | 141.42       |
| 10923                         | 00178                   | CALPERS                            | 03/24/2016              |             |              |
|                               | 1983                    | MEDICAL INSURANCE - RETIRED EMPLOY |                         |             | 613.34       |
|                               | 1983                    | MEDICAL INSURANCE - FINANCE        |                         |             | 5,663.06     |
|                               | 1983                    | MEDICAL INSURANCE - OPS            |                         |             | 16,198.27    |
|                               | 1983                    | MEDICAL INSURANCE - ADMIN          |                         |             | 3,028.73     |
|                               | 1983                    | MEDICAL INSURANCE - W.SHED         |                         |             | 1,713.47     |
|                               | 1983                    | MEDICAL INSURANCE - ENG            |                         |             | 1,364.35     |
|                               | 1983                    | MEDICAL INSURANCE - WTP            |                         |             | 8,629.93     |
|                               | 1983                    | MEDICAL INSURANCE - DEPENDENT      |                         |             | 4,014.19     |
| Total for Check Number 10923: |                         |                                    |                         | 0.00        | 41,225.34    |
| 10924                         | 00363                   | CINCINNATI LIFE INSURANCE CO       | 03/24/2016              |             |              |
|                               | 032216                  | LIFE INSURANCE                     |                         |             | 42.00        |
| Total for Check Number 10924: |                         |                                    |                         | 0.00        | 42.00        |
| 10925                         | 00788                   | COMCAST                            | 03/24/2016              |             |              |
|                               | 031616                  | INTERNET SERVICE - 264 ORCHARD     |                         |             | 136.08       |
| Total for Check Number 10925: |                         |                                    |                         | 0.00        | 136.08       |
| 10926                         | 00050                   | COUNTY OF SANTA CRUZ               | 03/24/2016              |             |              |
|                               | 089-411-35              | LIEN RELEASE FEE                   |                         |             | 15.00        |
| Total for Check Number 10926: |                         |                                    |                         | 0.00        | 15.00        |
| 10927                         | 00172                   | JOSEPH F. CONE                     | 03/24/2016              |             |              |
|                               | 032316                  | FSA REIMBURSEMENT                  |                         |             | 2,010.73     |
| Total for Check Number 10927: |                         |                                    |                         | 0.00        | 2,010.73     |
| 10928                         | 00313                   | MET LIFE                           | 03/24/2016              |             |              |
|                               | APR 2016                | LIFE INSURANCE - ENG               |                         |             | 16.65        |
|                               | APR 2016                | LIFE INSURANCE - FINANCE           |                         |             | 83.25        |
|                               | APR 2016                | DISABILITY - ENG                   |                         |             | 32.57        |
|                               | APR 2016                | DENTAL INSURANCE - OPS             |                         |             | 1,815.08     |
|                               | APR 2016                | LIFE INSURANCE - ADMIN             |                         |             | 41.63        |
|                               | APR 2016                | DISABILITY - W.SHED                |                         |             | 20.81        |
|                               | APR 2016                | DENTAL INSURANCE - W.SHED          |                         |             | 61.07        |
|                               | APR 2016                | DISABILITY -OPS                    |                         |             | 342.53       |
|                               | APR 2016                | LIFE INSURANCE - W.SHED            |                         |             | 8.31         |
|                               | APR 2016                | DISABILITY - WTP                   |                         |             | 255.65       |
|                               | APR 2016                | DENTAL INSURANCE - FINANCE         |                         |             | 731.26       |
|                               | APR 2016                | DENTAL INSURANCE - ENG             |                         |             | 111.58       |
|                               | APR 2016                | LIFE INSURANCE - OPS               |                         |             | 203.13       |
|                               | APR 2016                | DENTAL INSURANCE - WTP             |                         |             | 612.03       |
|                               | APR 2016                | DENTAL INSURANCE - ADMIN           |                         |             | 304.56       |
|                               | APR 2016                | DISABILITY - FINANCE               |                         |             | 145.24       |
|                               | APR 2016                | DISABILITY - ADMIN                 |                         |             | 96.76        |
|                               | APR 2016                | LIFE INSURANCE - WTP               |                         |             | 79.92        |
| Total for Check Number 10928: |                         |                                    |                         | 0.00        | 4,962.03     |
| 10929                         | 00569                   | PITNEY BOWES GLOBAL FIN.LLC        | 03/24/2016              |             |              |
|                               | 1379819 - MR-16         | MAILING SYSTEM MAINTENANCE         |                         |             | 430.08       |

| Check No | Vendor No<br>Invoice No   | Vendor Name<br>Description   | Check Date<br>Reference       | Void Checks | Check Amount                                 |
|----------|---|--|-------------------------------|-------------|--|
|          |   |  | Total for Check Number 10929: | 0.00        | 430.08                                       |
| 10930    | 00100<br>032316   | RICK ROGERS<br>FSA REIMBURSEMENT   | 03/24/2016                    |             | 1,499.94                                     |
|          |   |  | Total for Check Number 10930: | 0.00        | 1,499.94                                     |
| 10931    | 00011<br>9762126843<br>9762126843<br>9762126843<br>9762126843<br>9762126844 | VERIZON WIRELESS<br>CELL PHONE CHARGES - WTP<br>CELL PHONE CHARGES - ADMIN<br>CELL PHONE CHARGES - ENG<br>CELL PHONE CHARGES - ENG<br>TABLET CHARGES | 03/24/2016                    |             | 314.21<br>85.46<br>648.84<br>85.46<br>369.90 |
|          |   |  | Total for Check Number 10931: | 0.00        | 1,503.87                                     |
| 10932    | 00057<br>APR 216  | AFSCME COUNCIL 57<br>UNION DUES - APRIL 2016   | 03/30/2016                    |             | 684.42                                       |
|          |   |  | Total for Check Number 10932: | 0.00        | 684.42                                       |
| 10933    | 00767<br>922405571  | ANTHEM BLUE CROSS<br>MEDICARERX - RETIRED EMPLOYEE   | 03/30/2016                    |             | 132.00                                       |
|          |   |  | Total for Check Number 10933: | 0.00        | 132.00                                       |
| 10934    | 00309<br>031516<br>031516A  | AT&T IP SERVICES<br>IP SERVICE - 365 MADRONE<br>IP SERVICE - GRAHAM HILL   | 03/30/2016                    |             | 57.00<br>67.00                               |
|          |   |  | Total for Check Number 10934: | 0.00        | 124.00                                       |
| 10935    | 00686   | AT&T LONG DISTANCE<br>LONG DISTANCE - FELTON ACRES   | 03/30/2016                    |             | 77.50  |
|          |   |  | Total for Check Number 10935: | 0.00        | 77.50  |
| 10936    | 00115<br>APR 2016   | ATKINSON-FARASYN<br>LEGAL SERVICES - APRIL 2016  | 03/30/2016                    |             | 3,500.00                                     |
|          |   |  | Total for Check Number 10936: | 0.00        | 3,500.00                                     |
| 10937    | UB*00083  | STEVE AUFDERMAUR<br>Refund Check   | 03/30/2016                    |             | 75.00  |
|          |   |  | Total for Check Number 10937: | 0.00        | 75.00  |
| 10938    | UB*00086  | MOSES BEDOLLA<br>Refund Check<br>Refund Check  | 03/30/2016                    |             | 27.72<br>7.26                                |
|          |   |  | Total for Check Number 10938: | 0.00        | 34.98  |
| 10939    | 00788<br>031616<br>031916   | COMCAST<br>INTERNET SERVICE - 23 SUMMIT<br>INTERNET SERVICE - 7400 HWY 9   | 03/30/2016                    |             | 187.92<br>141.08                             |
|          |   |  | Total for Check Number 10939: | 0.00        | 329.00                                       |
| 10940    | UB*00084  | RICHARD LARSON<br>Refund Check   | 03/30/2016                    |             | 9.24   |

| Check No | Vendor No<br>Invoice No    | Vendor Name<br>Description  | Check Date<br>Reference       | Void Checks | Check Amount    |
|----------|----------------------------|---|-------------------------------|-------------|-----------------|
|          |                            |   | Total for Check Number 10940: | 0.00        | 9.24            |
| 10941    | 00240<br>APR 2016          | NEW RESOURCE BANK<br>SOLAR LEASE - APRIL 2016   | 03/30/2016                    |             | 2,380.00        |
|          |                            |   | Total for Check Number 10941: | 0.00        | 2,380.00        |
| 10942    | 00054<br>032516<br>032516A | PACIFIC GAS & ELECTRIC<br>ELECTRIC CHARGES - LAZYWOODS<br>ELECTRIC CHARGES - ZAYANTE / ROSEBL         | 03/30/2016                    |             | 46.91<br>524.37 |
|          |                            |   | Total for Check Number 10942: | 0.00        | 571.28          |
| 10943    | UB*00085                   | GENE & PAMELA TAYLOR<br>Refund Check  | 03/30/2016                    |             | 92.27           |
|          |                            |   | Total for Check Number 10943: | 0.00        | 92.27           |
| 10944    | 00109<br>032816<br>032816A | BENJAMIN VIRAMONTES<br>REIMBURSEMENT - 201 - D1 CERTIFICATIC<br>REIMBURSEMENT - 201 - T1 CERTIFICATIC | 03/30/2016                    |             | 55.00<br>55.00  |
|          |                            |   | Total for Check Number 10944: | 0.00        | 110.00          |
|          |                            |   | Report Total (74 checks):     | 0.00        | 663,763.58      |



# CASH REQUIREMENTS

THIS REPORT SUMMARIZES YOUR PAYROLL TRANSACTIONS FOR THE CHECK DATE 03/16/16. IT DOES NOT REFLECT MISCELLANEOUS ADMINISTRATIVE CHARGES. PLEASE REFER TO YOUR INVOICE(S) FOR THE TOTAL CASH REQUIRED FOR THIS CHECK DATE.

## TRANSACTION DETAIL

**ELECTRONIC FUNDS TRANSFER** - Your financial institution will initiate transfer to Paychex at or after 12:01 A.M. on transaction date.

| <u>TRANS. DATE</u>   | <u>BANK NAME</u>     | <u>ACCOUNT NUMBER</u> | <u>PRODUCT</u>     | <u>DESCRIPTION</u>        |                  | <b>BANK DRAFT AMOUNTS<br/>&amp; OTHER TOTALS</b> |
|--|----------------------|-----------------------|--------------------|---------------------------|------------------|--|
| 03/15/16   | WELLS FARGO BANK, NA | xxxxxx1358            | Direct Deposit     | Net Pay Allocations       | 39,467.89        | <b>39,467.89</b>                                 |
| 03/15/16   | WELLS FARGO BANK, NA | xxxxxx1358            | Taxpay®            | Employee Withholdings     |                  |  |
|  |                      |                       |                    | Social Security           | 5,599.91         |  |
|  |                      |                       |                    | Medicare                  | 1,309.66         |  |
|  |                      |                       |                    | Fed Income Tax            | 10,093.05        |  |
|  |                      |                       |                    | CA Income Tax             | 3,358.94         |  |
|  |                      |                       |                    | CA Disability             | 812.91           |  |
|  |                      |                       |                    | <b>Total Withholdings</b> | <b>21,174.47</b> |  |
|  |                      |                       |                    | Employer Liabilities      |                  |  |
|  |                      |                       |                    | Social Security           | 5,599.89         |  |
|  |                      |                       |                    | Medicare                  | 1,309.67         |  |
|  |                      |                       |                    | Fed Unemploy              | 14.43            |  |
|  |                      |                       |                    | <b>Total Liabilities</b>  | <b>6,923.99</b>  | <b>28,098.46</b>                                 |
| 03/15/16   | WELLS FARGO BANK, NA | xxxxxx1358            | 401(k) Traditional | PXROTH 401 EEPO           | 956.88           |  |
|  |                      |                       |                    | PX401 EECU                |                  |  |
|  |                      |                       |                    | PX401 ERMTCH              |                  |  |
|  |                      |                       |                    | PXROTH 401 EECU           |                  |  |
|  |                      |                       |                    | PX401 ERCUM               |                  |  |
|  |                      |                       |                    | PX401 EEPRE               | 898.56           | <b>1,855.44</b>                                  |
| 03/15/16   | WELLS FARGO BANK, NA | xxxxxx1358            | Section 125        | PXDCA EE PRE              | 180.00           |  |
|  |                      |                       |                    | PXUME EE PRE              | 350.00           | <b>530.00</b>                                    |
| <b>EFT FOR 03/15/16</b>                                    |                      |                       |                    |                           |                  | <b>69,951.79</b>                                 |
| <b>TOTAL EFT (Does not reflect administrative charges)</b> |                      |                       |                    |                           |                  | <b>69,951.79</b>                                 |

**NEGOTIABLE CHECKS** - Check amounts will be debited when payees cash checks. Funds must be available on check date.

| <u>TRANS. DATE</u>             | <u>BANK NAME</u>     | <u>ACCOUNT NUMBER</u> | <u>PRODUCT</u> | <u>DESCRIPTION</u> |           | <u>TOTAL</u>     |
|--------------------------------|----------------------|-----------------------|----------------|--------------------|-----------|------------------|
| 03/16/16                       | WELLS FARGO BANK, NA | xxxxxx1358            | Payroll        | Check Amounts      | 19,424.59 |                  |
| <b>TOTAL NEGOTIABLE CHECKS</b> |                      |                       |                |                    |           | <b>19,424.59</b> |

# CASH REQUIREMENTS

**THIS REPORT SUMMARIZES YOUR PAYROLL TRANSACTIONS FOR THE CHECK DATE 03/16/16. IT DOES NOT REFLECT MISCELLANEOUS ADMINISTRATIVE CHARGES. PLEASE REFER TO YOUR INVOICE(S) FOR THE TOTAL CASH REQUIRED FOR THIS CHECK DATE.**

**REMAINING DEDUCTIONS / WITHHOLDINGS / LIABILITIES** - Paychex does not remit these funds. You must ensure accurate and timely payment of applicable items.

| <u>TRANS. DATE</u>   | <u>BANK NAME</u>                  | <u>ACCOUNT NUMBER</u> | <u>PRODUCT</u> | <u>DESCRIPTION</u>      | <u>TOTAL</u>     |
|--|-----------------------------------|-----------------------|----------------|-------------------------|------------------|
| 03/16/16   | Refer to your records for account | Information           | Payroll        | Employee Deductions     |                  |
|  |                                   |                       |                | Advance                 | 630.58           |
|  |                                   |                       |                | Aflc/Col Post           | 55.11            |
|  |                                   |                       |                | Aflc/Col Pre            | 389.65           |
|  |                                   |                       |                | Calper 457              | 125.00           |
|  |                                   |                       |                | DPer                    | 5,716.85         |
|  |                                   |                       |                | Health                  | 1,965.23         |
|  |                                   |                       |                | ICMA                    | 1,535.00         |
|  |                                   |                       |                | Life Ins                | 14.00            |
|  |                                   |                       |                | Union dues              | 322.08           |
|  |                                   |                       |                | <b>Total Deductions</b> | <b>10,753.50</b> |
| <b>TOTAL REMAINING DEDUCTIONS / WITHHOLDINGS / LIABILITIES (Does not reflect administrative charges)</b> |                                   |                       |                |                         | <b>10,753.50</b> |

**PAYCHEX WILL MAKE THESE TAX DEPOSIT(S) ON YOUR BEHALF** - This information serves as a record of payment.

| <u>DUE DATE</u> | <u>PRODUCT</u> | <u>DESCRIPTION</u> |           |
|-----------------|----------------|--------------------|-----------|
| 03/23/16        | Taxpay®        | FED IT PMT Group   | 23,912.18 |
| 03/23/16        | Taxpay®        | CA IT PMT Group    | 4,171.85  |

# CASH REQUIREMENTS

THIS REPORT SUMMARIZES YOUR PAYROLL TRANSACTIONS FOR THE CHECK DATE 03/30/16. IT DOES NOT REFLECT MISCELLANEOUS ADMINISTRATIVE CHARGES. PLEASE REFER TO YOUR INVOICE(S) FOR THE TOTAL CASH REQUIRED FOR THIS CHECK DATE.

## TRANSACTION DETAIL

**ELECTRONIC FUNDS TRANSFER** - Your financial institution will initiate transfer to Paychex *at or after 12:01 A.M.* on transaction date.

| <u>TRANS. DATE</u>   | <u>BANK NAME</u>     | <u>ACCOUNT NUMBER</u> | <u>PRODUCT</u>     | <u>DESCRIPTION</u>        |                  | <b>BANK DRAFT AMOUNTS<br/>&amp; OTHER TOTALS</b> |
|--|----------------------|-----------------------|--------------------|---------------------------|------------------|--|
| 03/29/16   | WELLS FARGO BANK, NA | xxxxxx1358            | Direct Deposit     | Net Pay Allocations       | 39,457.24        | 39,457.24  |
| 03/29/16   | WELLS FARGO BANK, NA | xxxxxx1358            | Taxpay®            | Employee Withholdings     |                  |  |
|  |                      |                       |                    | Social Security           | 5,885.23         |  |
|  |                      |                       |                    | Medicare                  | 1,376.38         |  |
|  |                      |                       |                    | Fed Income Tax            | 11,242.19        |  |
|  |                      |                       |                    | CA Income Tax             | 3,790.05         |  |
|  |                      |                       |                    | CA Disability             | 854.32           |  |
|  |                      |                       |                    | <b>Total Withholdings</b> | <b>23,148.17</b> |  |
|  |                      |                       |                    | Employer Liabilities      |                  |  |
|  |                      |                       |                    | Social Security           | 5,885.16         |  |
|  |                      |                       |                    | Medicare                  | 1,376.40         |  |
|  |                      |                       |                    | Fed Unemploy              | 12.28            |  |
|  |                      |                       |                    | <b>Total Liabilities</b>  | <b>7,273.84</b>  | <b>30,422.01</b>                                 |
| 03/29/16   | WELLS FARGO BANK, NA | xxxxxx1358            | 401(k) Traditional | PXROTH 401 EEPO           | 983.79           |  |
|  |                      |                       |                    | PX401 EECU                |                  |  |
|  |                      |                       |                    | PX401 ERMTCH              |                  |  |
|  |                      |                       |                    | PXROTH 401 EECU           |                  |  |
|  |                      |                       |                    | PX401 ERCUM               |                  |  |
|  |                      |                       |                    | PX401 EEPRE               | 898.56           | 1,882.35   |
| 03/29/16   | WELLS FARGO BANK, NA | xxxxxx1358            | Section 125        | PXDCA EE PRE              | 180.00           |  |
|  |                      |                       |                    | PXUME EE PRE              | 350.00           | 530.00   |
| <b>EFT FOR 03/29/16</b>                                    |                      |                       |                    |                           |                  | <b>72,291.60</b>                                 |
| <b>TOTAL EFT (Does not reflect administrative charges)</b> |                      |                       |                    |                           |                  | <b>72,291.60</b>                                 |

**NEGOTIABLE CHECKS** - Check amounts will be debited when payees cash checks. Funds must be available on check date.

| <u>TRANS. DATE</u>             | <u>BANK NAME</u>     | <u>ACCOUNT NUMBER</u> | <u>PRODUCT</u> | <u>DESCRIPTION</u> |           | <u>TOTAL</u>     |
|--------------------------------|----------------------|-----------------------|----------------|--------------------|-----------|------------------|
| 03/30/16                       | WELLS FARGO BANK, NA | xxxxxx1358            | Payroll        | Check Amounts      | 20,756.77 |                  |
| <b>TOTAL NEGOTIABLE CHECKS</b> |                      |                       |                |                    |           | <b>20,756.77</b> |

# CASH REQUIREMENTS

THIS REPORT SUMMARIZES YOUR PAYROLL TRANSACTIONS FOR THE CHECK DATE 03/30/16. IT DOES NOT REFLECT MISCELLANEOUS ADMINISTRATIVE CHARGES. PLEASE REFER TO YOUR INVOICE(S) FOR THE TOTAL CASH REQUIRED FOR THIS CHECK DATE.

**REMAINING DEDUCTIONS / WITHHOLDINGS / LIABILITIES** - Paychex does not remit these funds. You must ensure accurate and timely payment of applicable items.

| <u>TRANS. DATE</u> | <u>BANK NAME</u>                  | <u>ACCOUNT NUMBER</u> | <u>PRODUCT</u> | <u>DESCRIPTION</u>      | <u>TOTAL</u>     |
|--------------------|-----------------------------------|-----------------------|----------------|-------------------------|------------------|
| 03/30/16           | Refer to your records for account | Information           | Payroll        | Employee Deductions     |                  |
|                    |                                   |                       |                | Advance                 | 1,935.58         |
|                    |                                   |                       |                | Aflc/Col Post           | 55.11            |
|                    |                                   |                       |                | Aflc/Col Pre            | 389.65           |
|                    |                                   |                       |                | Calper 457              | 125.00           |
|                    |                                   |                       |                | DPer                    | 5,809.87         |
|                    |                                   |                       |                | Health                  | 337.32           |
|                    |                                   |                       |                | ICMA                    | 1,535.00         |
|                    |                                   |                       |                | Life Ins                | 14.00            |
|                    |                                   |                       |                | <b>Total Deductions</b> | <b>10,201.53</b> |

**TOTAL REMAINING DEDUCTIONS / WITHHOLDINGS / LIABILITIES (Does not reflect administrative charges)** **10,201.53**

**PAYCHEX WILL MAKE THESE TAX DEPOSIT(S) ON YOUR BEHALF** - This information serves as a record of payment.

| <u>DUE DATE</u> | <u>PRODUCT</u> | <u>DESCRIPTION</u> |           |
|-----------------|----------------|--------------------|-----------|
| 04/06/16        | Taxpay®        | FED IT PMT Group   | 25,765.36 |
| 04/06/16        | Taxpay®        | CA IT PMT Group    | 4,644.37  |



## SAN LORENZO VALLEY WATER DISTRICT

13060 Highway 9 • Boulder Creek, CA 95006-9119  
Office (831) 338-2153 • Fax (831) 338-7986  
Website: [www.slvwd.com](http://www.slvwd.com)

Todd Sexauer, Environmental Coordinator  
County of Santa Cruz Planning Department  
701 Ocean Street, 4<sup>th</sup> Floor  
Santa Cruz, CA 95060

**RE: San Lorenzo Valley Water District Comments on the NOP for the Mount Hermon Felton Meadow Project**

Dear Mr. Sexauer,

Thank you for the opportunity to comment on the Mount Hermon Association Felton Meadow Project Notice of Preparation of a Draft Environmental Impact Report. As you may be aware, the San Lorenzo Valley Water District provides domestic drinking water to over 7,300 connections in the Santa Lorenzo Valley. Our water is from a combination of surface water and groundwater sources. Therefore we are uniquely interested in and affected by development projects that impact groundwater sources within the shared aquifer. The following comments are provided as part of our interest and participation, as a public agency utilizing a shared aquifer with the Mount Hermon Association, which has agreed to provide water to the expanded recreation area. Specific comments and recommendations are proposed within this letter for the purpose of minimizing or avoiding impacts.

### **SPECIFIC COMMENTS AND RECOMMENDATIONS:**

#### **Groundwater Recharge**

**Comment #1:** The site overlies both the Monterey Formation and alluvium/colluvium. The Monterey Formation generally has relatively low permeability and its exposures typically do not represent areas of significant groundwater recharge. Assuming the project successfully maintains existing rates of rainfall and runoff percolation, as proposed, potential impacts to groundwater recharge will be minor and likely unmeasurable.

Beneficial recharge may be expected to occur across the areas of surficial alluvium/colluvium, however. This recharge may be expected to contribute most significantly to Zayante Creek and San Lorenzo River baseflows, rather than area well yields. Baseflows in Zayante Creek directly impact the District's surface diversion water right on Fall Creek, as it is tied to baseflow measured at the USGS Big Trees Stream Gage, down stream of the Zayante Creek confluence.

Additionally, the Zayante Creek sub-watershed has been identified as the highest priority for both the Central Coast Coho and the Draft Central California Coast Steelhead Recovery Plans. A first priority in recovery of these two endangered species is to regulate the use of streamside wells and groundwater to increase baseflows (ccc\_steelhead public draft recovery actions).

## **Groundwater Use and Supply**

**Comment #2:** The NOP indicates that the hydrology and water quality section of the EIR will be based on the preliminary drainage report and the Downstream Drainage Assessment report prepared in 2013 as part of the initial study. Those documents do not provide estimates of the proposed water use or the water supply conditions. The use of the initial study documents would be inadequate to assess the impact on hydrology and water quality. More information is needed to evaluate the amount of water to be used by the new expanded Felton Meadow Project. The District requests a full analysis of impacts on the aquifer regarding projected use until at least 2035.

**Comment #3:** The project has a total area of 12 acres, of which 0.6 acres will be buildings. The proposed landscaping of the remaining area is referred to in the attachments but is not fully described. For the purpose of discussion, we assume that 10 acres will be irrigated for the play field, landscaping, community garden, etc. As estimated in Table 3-10 of the 2009 SLVWD Water Supply Master Plan, potential evapotranspiration (ET) exceeds the actual ET of water from rainfall by about 17 inches/year, on average, in the Ben Lomond (and Felton) area. Assuming about 1.5 feet of water are applied to irrigate 10 acres of landscaping from June through October requires a groundwater pumping rate of approximately 66 gallons per minute (gpm) for 8 hours/day during those months. Assuming 200 people use the facility per day and each person uses 12 gallons/day of water, groundwater pumping of an additional 5 gpm may be needed 8 hours/day.

The attached Figure 1 provides plots of available data for Mount Hermon Association (MHA) groundwater use and well water levels. Peak monthly water use reaches 200 gpm. On a daily basis, peak use may be about double that amount. Based on these rough assumptions, the estimated proposed water use may represent a roughly 10 percent increase in peak monthly use and a 20 percent increase in peak daily use.

The San Lorenzo Valley Water District is interested in restoring the aquifer by implementing an offset program, which transfers excess winter storm water from surface waters to allow ground water wells to rest and recharge.

Since the mid-1990s, static and pumping groundwater levels in Mount Hermon Association wells have fallen about 70 to 100 feet. Since the mid-2000s, the decline in groundwater levels has continued but at a decreased rate, indicating that groundwater withdrawals exceed the local rate of groundwater replenishment.

The proposed project should provide better estimates of its proposed water use and the sustainability of its proposed water supplies, both in terms of long-term sustainability and peak production capacity.

In light of the Sustainable Groundwater Management Act, the proposed plan should include how MHA will work to restore the aquifer in the long term.

## **Storm Runoff, Erosion, and Turbidity**

**Comment #4:** The 2013 Preliminary Drainage Report provided by RI Engineering and attached to the project's initial study makes reference to several tables of detailed calculations that were not included in the pdf. Furthermore, the "Q2-year," Q10-year," and Q100-year" estimates given in the report text are provided without any units and it is unclear if these are flow rates or flow volumes. Thus, it is not possible to review the reasonableness and significance of these estimates with regard to on-site runoff detention and potential increased off-site discharge.

**Comment #5:** Several of the proposed activities may induce on-site erosion, e.g., bicycle paths, ropes course, and various other outdoor sports. Additionally turf areas require intensive herbicides and fertilizers, which may increase nitrate and phosphate loads into nearby surface waters impacting Zayante and the San Lorenzo River. Site runoff may also have high turbidity, and the release of this water off-site could contribute to turbidity and increased nutrient load in Zayante Creek and the San Lorenzo River, which in turn could impact aquatic habitat and the quality of municipal water diversions down stream. Additionally, sediments collected in on-site detention basins could reduce percolation rates, and thus reduce the estimated capacity of these basins. For these reasons, the runoff calculations and proposed erosion control measures should receive additional, more detailed review and a maintenance plan should be added to the mitigation measures list in the plan.

### **Tree Resource Evaluation**

**Comment #6:** The Tree Resource Evaluation provided by Maureen Hamb – Certified Arborist (attachment 14), indicated in her report that 9 trees have been recommended for removal due to construction, the NOP indicates that 18 trees will be removed. There is no indication of what species of trees nor the size (dbh) of trees to be removed, what percent of canopy will remain, or how it will impact wildlife habitat. The removal of trees will require special review if deemed as Significant Trees per the County Code Chapter 16.34 Significant Trees Protection.

Sincerely,

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Jen Michelsen  
Environmental Programs Manager  
San Lorenzo Valley Water District

cc: Bruce McPherson, Fifth District Supervisor  
John Ricker, County Environmental Health Services  
Darren Howe, NOAA  
Melissa Farinha, CDFW

## MEMO

To: Board of Directors

From: District Manager

Prepared By: Environmental Programs Manager

SUBJECT: PUBLIC HEARING AND DISCUSSION AND POSSIBLE ACTION  
REGARDING ADOPTION OF THE DRAFT 2010 URBAN WATER  
MANAGEMENT PLAN

DATE: April 7, 2016

### RECOMMENDATION

It is recommended that the Board of Directors hold a Public Hearing, discuss, review, revise and adopt by resolution the Addendum to the District's Adopted 2010 Urban Water Management Plan.

### BACKGROUND

Based on comments provided during the public hearing, staff requests that the Board consider changes, additions, deletions to the Addendum for the Adopted 2010 UWMP.

### STRATEGIC PLAN:

Element 3.1 - Capital Improvement Program  
Element 5.1 - Fiscal Plan for Support of Strategy  
Element 5.2 - Funding Infrastructure Replacement  
Element 5.3 - Provide Support for Applying for and Securing Grants

### FISCAL IMPACT:

None for Fiscal Year 15/16.



## SAN LORENZO VALLEY WATER DISTRICT

### RESOLUTION NO. 32 (15-16)

#### SUBJECT: APPROVAL OF ADDENDUM TO THE 2010 URBAN WATER MANAGEMENT PLAN

WHEREAS, the California Legislature enacted Assembly Bill No 797 during the 1983-1984 Regular Session of the California Legislature (Water Code 10610, et. Seq.), known as the Urban Water Management Planning Act, and as amended subsequently, which mandates that every supplier providing water for municipal purposes to more than 3,000 service connections or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan, the primary objective of which is to plan for the conservation and efficient use of water; and

WHEREAS, AB 797 requires that said Plan be adopted by December 31, 1985, after public review and hearing, and filed with the California Department of Water Resources within thirty days of adoption; and

WHEREAS, AB 797 requires that said Plan be periodically reviewed at least once every five years, and that the urban water supplier shall make any amendments or changes to its Plan which are indicated by the review; and

WHEREAS, the Water District submitted an Urban Water Management Plan as required by AB 797; and

WHEREAS, the Department of Water Resources indicated upon review, that an amendment was required in order to be accepted by the Department; and

WHEREAS, the District provided water to over 3,000 service connections, and has, therefore, prepared and circulated for public review a Draft 2010 Urban Water Management Plan, in compliance with the requirements of AB 797, and a properly noticed public hearing regarding said Draft Plan was held by the District Board on July 16, 2015, and a Final Plan prepared.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the San Lorenzo Valley Water District as follows:

1. The Addendum to the 2010 Urban Water Management Plan is hereby adopted.
2. The District Manager is hereby authorized and directed to file the Addendum with the California Department of Water Resources within 30 days after this date, in accordance with AB 797;

\*\*\*\*\*

PASSED AND ADOPTED by the Board of Directors of the San Lorenzo Valley Water District, County of Santa Cruz, State of California, on the 16<sup>th</sup> day of July, 2015, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

---

Holly Morrison, District Secretary  
San Lorenzo Valley Water District

*ADOPTED*

# **San Lorenzo Valley Water District 2010 Urban Water Management Plan**

## **Addendum**

**Prepared by**

**San Lorenzo Valley Water District  
Boulder Creek, California**



**February 2016**

**San Lorenzo Valley Water District**  
**2010 Urban Water Management Plan**  
**Addendum**  
**February 2016**

The San Lorenzo Valley Water District (SLVWD) has prepared this addendum to its 2010 Urban Water Management Plan (UWMP) in response to comments received from the California Department of Water Resources (CDWR)<sup>1</sup> regarding the UWMP adopted by the SLVWD Board of Directors in August 2015.

**Section 3, Water Demand**

***Subsection 3.4.1, Recent Water Demand by Sector***

Revised:

**Table 3-14**, SLVWD Water Demand by Sector, 2005-2010 and Projected for 2015-2035 (attached)  
Revised for clarity. Legend text for shaded cells revised.

**Section 4, Water Supply**

***Subsection 4.7, Potential Additional Water Sources***

Added:

**Section 4.7.4, Desalination**

Desalination has been considered a potential supplemental water supply along the Santa Cruz County coast, most actively by the City of Santa Cruz. The San Lorenzo Valley Water District (SLVWD or District) is unlikely to undertake desalination given that it is separated from the coast by more than five miles of rugged terrain. In the event that the City of Santa Cruz constructs a regional desalination facility, SLVWD may have the opportunity to obtain supplemental water at times via existing system interties, perhaps as part of a regional conjunctive use program. No such project is currently planned, however, and desalination is not considered further in this plan.

Added:

**Section 4.7.5, Recycled Water**

SLVWD's South Service Area is sewered by the City of Scotts Valley. This wastewater is recycled by the Scotts Valley Water District, which delivered approximately 200 acre-feet of recycled water in 2013 (<http://svwd.org/about-district/district-information>).

SLVWD's North and Felton Service Areas rely on on-site wastewater disposal (i.e., septic tanks and leachfields), which effectively recycles water within the watershed. Planning studies conducted in the 1980s determined that sewerage these areas would result in unacceptable environmental impacts.

Because of these conditions, SLVWD is not considering the use of recycled water at this time.

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<sup>1</sup> Email sent to J. Michelsen/SLVWD December 22, 2015 from G. Huff, [Gwen.Huff@water.ca.gov](mailto:Gwen.Huff@water.ca.gov).

### Section 5, Water Supply Reliability and Water Shortage Contingency Planning

The minimum water supply available by source for the next three years may be summarized as follows based on information provided in Section 5.2.3 of the Board Adopted UWMP for a multiple dry year period:

| North System      |              |        | South System                    | Felton System                | SLVWD Total |
|-------------------|--------------|--------|---------------------------------|------------------------------|-------------|
| Stream Diversions | Ground-water | Total* | Pasatiempo & Mañana Woods Wells | Stream and Spring Diversions |             |
| (acre-feet/year)  |              |        |                                 |                              |             |
| 525               | 635          | 1,540  | 330                             | 425                          | 2,300       |

These estimates are based on the 1987-1994 drought and 2035 projected demand.

Based on information provided in Sections 5.2.2 and 5.2.3 in the Board Approved UWMP, a water supply and demand comparison for single dry and multi-dry years is as follows for five year increments from 2015 through 2035:

| Dry-Year Period  | Supply            |              |       |                                 |                              |             | Demand       |              |               |       |
|------------------|-------------------|--------------|-------|---------------------------------|------------------------------|-------------|--------------|--------------|---------------|-------|
|                  | North System      |              |       | South System                    | Felton System                | SLVWD Total | North System | South System | Felton System | Total |
|                  | Stream Diversions | Ground-water | Total | Pasatiempo & Mañana Woods Wells | Stream and Spring Diversions |             |              |              |               |       |
| (acre-feet/year) |                   |              |       |                                 |                              |             |              |              |               |       |
| 2015-2020        |                   |              |       |                                 |                              |             |              |              |               |       |
| Single           | 400               | 1140         | 1,540 | 330                             | 425                          | 2,300       | 1,540        | 330          | 425           | 2,300 |
| Multiple         | 525               | 635          | 1,540 | 330                             | 425                          | 2,300       | 1,540        | 330          | 425           | 2,300 |
| 2020-2025        |                   |              |       |                                 |                              |             |              |              |               |       |
| Single           | 525               | 635          | 1,540 | 330                             | 425                          | 2,300       | 1,540        | 330          | 425           | 2,300 |
| Multiple         | 525               | 635          | 1,540 | 330                             | 425                          | 2,300       | 1,540        | 330          | 425           | 2,300 |
| 2025-2030        |                   |              |       |                                 |                              |             |              |              |               |       |
| Single           | 525               | 635          | 1,540 | 330                             | 425                          | 2,300       | 1,540        | 330          | 425           | 2,300 |
| Multiple         | 525               | 635          | 1,540 | 330                             | 425                          | 2,300       | 1,540        | 330          | 425           | 2,300 |
| 2030-2035        |                   |              |       |                                 |                              |             |              |              |               |       |
| Single           | 525               | 635          | 1,540 | 330                             | 425                          | 2,300       | 1,540        | 330          | 425           | 2,300 |
| Multiple         | 525               | 635          | 1,540 | 330                             | 425                          | 2,300       | 1,540        | 330          | 425           | 2,300 |

### Section 6, Demand Management Measures

#### Subsection 6.1, SLVWD Water Demand Management Measures

Water demand management measures (DMM) are specific actions a water supplier takes to support its water conservation efforts. The UWMP Act identifies 14 DMMs (CWC 10631(f)) that should be evaluated in each UWMP. These are summarized in Table 6-1 (attached), which has been revised to include the letter code assigned by CDWR to each DMM in addition to the DMM numbering used in this UWMP.

The following three DMMs were omitted in the Board Adopted version of the 2010 Urban Water Management Plan and are described further below:

- DMM 9 (A)<sup>2</sup> - Programmatic Residential Water Survey programs for single-family residential and multifamily residential customers.
- DMM 14 (E) Large landscape conservation programs and incentives
- DMM 13 (I): Conservation programs for commercial, industrial, and institutional accounts

**DMM 9 (A) - Programmatic Residential Water Survey programs for single-family residential and multifamily residential customers.**

CDWR requires that water purveyors provide water survey programs to residential customers that provide advice on indoor and outdoor water conservation measures. Alternatively, a water purveyor may conduct a cost-benefit analysis of the cost of a water survey program versus the benefit of water saved in terms of reduced customer charges.

SLVWD currently provides on-site leak detection assistance in the form of information and guidance for self-performance of leak detection and repair.

In order for SLVWD to implement a “water-wise house call” program targeting the top 10 percent of single family and multi-family water users, it would require the additional staffing necessary to conduct approximately 576 water audits for these customers. Assuming these audits would require 77 percent of a full time employee, the cost to the District would be approximately \$112,000. Assuming these customers would achieve a 20 percent annual water savings as a result of these audits, the total amount of water saved would be approximately 22.6 million gallons per year. At a cost of \$5.58 per unit of water (i.e., 100 cubic feet), this would represent a total savings of approximately \$198,522 among these customers.

Based on this approximate cost-benefit analysis, and in light of the District’s existing programs for assisting its customers with water conservation, SLVWD does not plan to initiate a more extensive water survey program at this time.

**DMM 14 (E) Large landscape conservation programs and incentives**

SLVWD contracted with Ecology Action of Santa Cruz in 2015 to provide support for conducting indoor water conservation consultations and irrigation efficiency audits.

These water audit services include:

- a. Water conservation and irrigation efficiency audits of the 10 to 15 highest water using properties in the District. Depending on the size of the facility, each audit and associated report is estimated to require 8 to 12 hours.
- b. Efficiency audits of each irrigation zone in order to identify which zones need repairs to prevent water waste and run-off. A weather-based irrigation schedule compliant with the District’s current watering schedule is programmed into the irrigation controller with the property manager’s consent.
- c. Submit each audit report to the customer and District. The following items are documented in the audit reports:

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<sup>2</sup> DMM numbering as used in this UWMP, with CDWR letter assignment given parenthetically.

- i. Existing indoor fixture use rates and recommended fixture conversions.
  - ii. Existing irrigation hardware, locations of observed leaks and run-off, and recommendations for irrigation efficiency upgrades.
  - iii. A list of priority zones for irrigation upgrades based on the greatest potential to reduce water use and waste.
  - iv. Existing irrigation zone schedule and recommended weather-based irrigation schedule.
  - v. An irrigation water budget based on the County of Santa Cruz Model Water Efficient Landscape Ordinance (MWELo) landscape coefficient of 0.7, and 2014 landscape water use compared to the MWELo irrigation water budget.
  - vi. If the customer does not have an irrigation system map for the purposes of conducting an irrigation audit, Ecology Action will create an irrigation zone map to be permanently posted at the irrigation controller so that future audits and system maintenance can be completed efficiently.
- d. Follow-up with customers one month after report submission to answer questions and document implementation of recommended measures.

**DMM 13 (I): Conservation programs for commercial, industrial, and institutional accounts**

In May 2014 SLVWD declared a Stage 2 Water Shortage Emergency and passed Ordinance No. 105 (see UWMP Appendix B). This ordinance regulates the use of District-provided water as follows:

During a Stage 2 Water Shortage it shall be unlawful for any person, firm, partnership, association, corporation, political body or other District customer:

1. To water or irrigate lawn, landscape, or other vegetated areas between the hours of 10:00 a.m. and 5:00 p.m., except when performed with a bucket or watering can, or by use of a drip irrigation system or similar low volume, nonspray 4 irrigation equipment, or for very short periods of time for the express purpose of allowing landscape contractors to adjust or repair an irrigation system.
2. To use a hose that is not equipped with a shutoff nozzle.
3. To use potable water to wash down hard or paved surfaces, including but not limited to sidewalks, walkways, driveways, parking lots, tennis courts, patios, or other paved surfaces, except when it is necessary to alleviate safety or sanitation hazards or to prepare paved surfaces for sealing.
4. To initially fill or to drain and refill residential swimming pools.
5. To serve water in a restaurant or other commercial food service establishment except upon the request of a patron.
6. To operate a hotel, motel or other commercial lodging establishment without offering patrons the option to forego the daily laundering of towels, sheets and linens.
7. To water or irrigate lawn, landscape, or other vegetated areas on days of the week other than the days of the week authorized and noticed by the District Manager, except when performed with a bucket or watering can, or by use of a drip irrigation system or similar low volume, nonspray irrigation equipment, or for very short periods of time for the express purpose of allowing landscape contractors to adjust or repair an irrigation system. Hourly restrictions set forth in subsection 1 continue to apply on authorized watering days. This provision shall not

apply to commercial growers/nurseries or to residential vegetable gardens/edible plantings watered with a hose equipped with a shutoff nozzle.

8. To water or irrigate lawn, landscape, or other vegetated area using an automatic irrigation system for more than fifteen minutes per watering station per assigned day. This provision shall not apply to automatic irrigation systems exclusively using low output sprinkler equipment, including rotors, stream rotors, or microspray systems.
9. To wash the exterior of dwellings, buildings or structures (with the exception of window washing and preparation of property for painting or for sale).



| Calendar Year                        | SLVWD All Service Areas              |                                      |                                      |                                      |                                      |                                      |                                      |                                      |                                      |                                      |                                      |                                      |    |     |   |       |       |      |     |     |      |    |     |       |   |   |      |     |     |      |       |       |      |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|----|-----|---|-------|-------|------|-----|-----|------|----|-----|-------|---|---|------|-----|-----|------|-------|-------|------|
|                                      | Residential                          |                                      |                                      |                                      |                                      |                                      | Commercial                           |                                      |                                      |                                      |                                      |                                      |    |     |   |       |       |      |     |     |      |    |     |       |   |   |      |     |     |      |       |       |      |
|                                      | Single Residential                   | Multi Residential                    | Landscape                            | Private/Mutuals                      | Fire Service                         | Vacant                               | Total                                | Commercial                           | Institutional/Govt                   | Other/Surplus                        | Total                                | SLVWD Total                          |    |     |   |       |       |      |     |     |      |    |     |       |   |   |      |     |     |      |       |       |      |
| Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY | Use per Con-Serv. Con-Deliv-ered AFY |    |     |   |       |       |      |     |     |      |    |     |       |   |   |      |     |     |      |       |       |      |
| 2005                                 | 5,671                                | 1,302                                | 0.23                                 | c                                    | 254                                  | -                                    | 11                                   | 17                                   | 1.55                                 | c                                    | 23                                   | -                                    | c  | 0   | - | 5,682 | 1,596 | 0.28 | 105 | 58  | 0.55 | 31 | 56  | 1.81  | 6 | 6 | 0.99 | 142 | 120 | 0.84 | 5,824 | 1,716 | 0.29 |
| 2006 <sup>b</sup>                    | 5,796                                | 1,313                                | 0.23                                 | c                                    | 243                                  | -                                    | 11                                   | 19                                   | 1.69                                 | c                                    | 23                                   | -                                    | c  | 0   | - | 5,807 | 1,598 | 0.28 | 105 | 56  | 0.53 | 31 | 63  | 2.04  | 6 | 3 | 0.53 | 142 | 122 | 0.86 | 5,949 | 1,721 | 0.29 |
| 2007                                 | 5,802                                | 1,335                                | 0.23                                 | c                                    | 251                                  | -                                    | 11                                   | 20                                   | 1.82                                 | c                                    | 20                                   | -                                    | c  | 0   | - | 5,813 | 1,625 | 0.28 | 105 | 53  | 0.50 | 33 | 62  | 1.88  | 7 | 2 | 0.27 | 145 | 116 | 0.80 | 5,958 | 1,743 | 0.29 |
| 2008 <sup>b</sup>                    | 6,980                                | 1,345                                | 0.19                                 | c                                    | 244                                  | -                                    | 11                                   | 19                                   | 1.75                                 | c                                    | 20                                   | -                                    | c  | 0   | - | 6,991 | 1,628 | 0.23 | 247 | 79  | 0.32 | 51 | 77  | 1.50  | 7 | 2 | 0.25 | 305 | 158 | 0.52 | 7,296 | 1,871 | 0.26 |
| 2009                                 | 6,472                                | 1,403                                | 0.22                                 | 412                                  | 241                                  | 0.58                                 | 11                                   | 14                                   | 1.27                                 | 6                                    | 26                                   | 4.33                                 | 36 | 0   | - | 7,000 | 1,684 | 0.24 | 245 | 120 | 0.49 | 52 | 92  | 1.77  | 8 | 4 | 0.44 | 305 | 216 | 0.71 | 7,305 | 1,904 | 0.26 |
| 2010                                 | 6,464                                | 1,089                                | -                                    | 418                                  | 190                                  | -                                    | 12                                   | 5                                    | -                                    | 5                                    | 12                                   | -                                    | 41 | 0   | - | 7,000 | 1,296 | -    | 245 | 85  | -    | 55 | 75  | -     | 8 | 1 | -    | 308 | 161 | -    | 7,308 | 1,781 | 0.24 |
| 2015                                 | 6,511                                | 1,566                                | 0.24                                 | 417                                  | 265                                  | 0.63                                 | 10                                   | 16                                   | 1.56                                 | 5                                    | 29                                   | 5.80                                 | 38 | 0   | - | 7,045 | 1,875 | 0.27 | 246 | 136 | 0.55 | 52 | 96  | 1.83  | 5 | 5 | 0.94 | 304 | 237 | 0.78 | 7,349 | 2,112 | 0.29 |
| 2020                                 | 6,545                                | 1,530                                | 0.23                                 | 420                                  | 254                                  | 0.61                                 | 10                                   | 15                                   | 1.52                                 | 5                                    | 24                                   | 4.86                                 | 37 | 1   | - | 7,078 | 1,826 | 0.26 | 248 | 133 | 0.54 | 55 | 100 | 1.84  | 6 | 4 | 0.59 | 309 | 237 | 0.77 | 7,387 | 2,061 | 0.28 |
| 2025                                 | 6,560                                | 1,532                                | 0.23                                 | 421                                  | 254                                  | 0.60                                 | 13                                   | 16                                   | 1.29                                 | 5                                    | 28                                   | 5.68                                 | 38 | 0   | - | 7,096 | 1,831 | 0.26 | 248 | 131 | 0.53 | 55 | 100 | 1.84  | 5 | 4 | 0.76 | 308 | 235 | 0.76 | 7,404 | 2,066 | 0.28 |
| 2030                                 | 6,582                                | 1,536                                | 0.23                                 | 422                                  | 260                                  | 0.62                                 | 13                                   | 15                                   | 1.21                                 | 5                                    | 28                                   | 5.69                                 | 38 | 0   | - | 7,118 | 1,839 | 0.26 | 249 | 131 | 0.53 | 56 | 101 | 1.80  | 6 | 4 | 0.60 | 311 | 236 | 0.76 | 7,429 | 2,072 | 0.28 |
| 2035                                 | 6,589                                | 1,540                                | 0.23                                 | 422                                  | 260                                  | 0.61                                 | 13                                   | 11                                   | 0.90                                 | 5                                    | 29                                   | 5.71                                 | 38 | 1   | - | 7,129 | 1,840 | 0.26 | 249 | 132 | 0.53 | 53 | 101 | 1.91  | 5 | 4 | 0.73 | 308 | 237 | 0.77 | 7,437 | 2,077 | 0.28 |
| 2005                                 | 5,671                                | 424                                  | 205                                  | c                                    | 83                                   | -                                    | 11                                   | 6                                    | 1,380                                | c                                    | 7                                    | -                                    | c  | 0   | - | 5,682 | 520   | 251  | 105 | 19  | 493  | 31 | 18  | 1,613 | 6 | 2 | 888  | 142 | 39  | 754  | 5,824 | 559   | 263  |
| 2006                                 | 5,796                                | 428                                  | 202                                  | c                                    | 79                                   | -                                    | 11                                   | 6                                    | 1,508                                | c                                    | 7                                    | -                                    | c  | 0   | - | 5,807 | 521   | 246  | 105 | 18  | 476  | 31 | 21  | 1,821 | 6 | 1 | 471  | 142 | 40  | 769  | 5,949 | 561   | 258  |
| 2007                                 | 5,802                                | 435                                  | 205                                  | c                                    | 82                                   | -                                    | 11                                   | 7                                    | 1,622                                | c                                    | 6                                    | -                                    | c  | 0   | - | 5,813 | 530   | 250  | 105 | 17  | 447  | 33 | 20  | 1,675 | 7 | 1 | 242  | 145 | 38  | 716  | 5,958 | 568   | 261  |
| 2008                                 | 6,980                                | 438                                  | 172                                  | c                                    | 79                                   | -                                    | 11                                   | 6                                    | 1,559                                | c                                    | 6                                    | -                                    | c  | 0   | - | 6,991 | 530   | 208  | 247 | 26  | 287  | 51 | 25  | 1,340 | 7 | 1 | 226  | 305 | 51  | 462  | 7,296 | 610   | 229  |
| 2009                                 | 6,472                                | 457                                  | 194                                  | 412                                  | 79                                   | 522                                  | 11                                   | 5                                    | 1,136                                | 6                                    | 8                                    | 3,868                                | 36 | 0   | - | 7,000 | 549   | 215  | 245 | 39  | 437  | 52 | 30  | 1,579 | 8 | 1 | 391  | 305 | 70  | 631  | 7,305 | 620   | 233  |
| 2010                                 | 6,464                                | 355                                  | -                                    | 418                                  | 62                                   | -                                    | 12                                   | 2                                    | -                                    | 5                                    | 4                                    | -                                    | 41 | 0   | - | 7,000 | 422   | -    | 245 | 28  | -    | 55 | 24  | -     | 8 | 0 | -    | 308 | 52  | -    | 7,308 | 580   | 218  |
| 2015                                 | 6,144                                | 510                                  | 215                                  | 412                                  | 86                                   | 567                                  | 11                                   | 5                                    | 1,395                                | 6                                    | 9                                    | 5,181                                | 36 | 0   | - | 6,672 | 611   | 238  | 161 | 44  | 492  | 40 | 31  | 1,633 | 7 | 2 | 843  | 208 | 77  | 695  | 6,880 | 688   | 257  |
| 2020                                 | 6,511                                | 498                                  | 209                                  | 417                                  | 83                                   | 541                                  | 10                                   | 5                                    | 1,361                                | 5                                    | 8                                    | 4,341                                | 38 | 0.3 | - | 7,045 | 595   | 230  | 246 | 43  | 478  | 52 | 33  | 1,639 | 5 | 1 | 524  | 304 | 77  | 684  | 7,349 | 671   | 249  |
| 2025                                 | 6,545                                | 499                                  | 208                                  | 420                                  | 83                                   | 539                                  | 10                                   | 5                                    | 1,155                                | 5                                    | 9                                    | 5,068                                | 37 | 0   | - | 7,078 | 596   | 230  | 248 | 43  | 471  | 55 | 33  | 1,639 | 6 | 1 | 676  | 309 | 77  | 682  | 7,387 | 673   | 249  |
| 2030                                 | 6,560                                | 500                                  | 208                                  | 421                                  | 85                                   | 550                                  | 13                                   | 5                                    | 1,083                                | 5                                    | 9                                    | 5,082                                | 38 | 0   | - | 7,096 | 599   | 231  | 248 | 43  | 471  | 55 | 33  | 1,609 | 5 | 1 | 536  | 308 | 77  | 676  | 7,404 | 675   | 249  |
| 2035                                 | 6,582                                | 502                                  | 209                                  | 422                                  | 85                                   | 548                                  | 13                                   | 4                                    | 803                                  | 5                                    | 9                                    | 5,095                                | 38 | 0.3 | - | 7,118 | 600   | 230  | 249 | 43  | 471  | 56 | 33  | 1,703 | 6 | 1 | 654  | 311 | 77  | 686  | 7,429 | 677   | 249  |

Source: Historical water use by sector and service connections from SLVWD file "USAGECAL.xls," May 2011.

<sup>a</sup> Sector data unavailable for August and October, 2010; thus, sum of 2010 sector values does not equal SLVWD 2010 total.

<sup>b</sup> Total Delivered is from WTUSE1.xls file provided by SLVWD in May 2011 and may differ from sum of the deliveries shown in this table.

<sup>c</sup> No. of service connections are included under single residential category.

<sup>d</sup> gallons per day per connection.

**Table 3-14**  
**SLVWD Water Demand by Sector, 2005-2010 and Projected for 2015-2035**  
**Revised February 2016**

| This UWMP No. | DWR DMM No. | DMM Category         | Demand Management Measure Name   | DMM Description  | Implementation Status             | SLVWD Implementation Notes  |
|---------------|-------------|----------------------|--|--|-----------------------------------|---|
| 1             | L           | Operations Practices | Water conservation coordinator   | designate a person responsible for the District's conservation program   | current                           | The SLVWD Administrative Environmental Analyst is responsible for organizing, coordinating, and supervision of the District's water conservation activities.  |
| 2             | D           |                      | Metering with commodity rates for all new connections and retrofit of existing meter connections | meter all new connections, retrofit existing unmetered connections, read meters and bill customers by volume used, and have a meter tracking program | current                           | There are no unmetered accounts.  |
| 3             | K           |                      | Conservation pricing   | provide economic incentives to customers to use water efficiently  | current                           | SLVWD has tiered pricing so that as waster use increases, the per unit charge of water escalates. Current pricing can be found at: <a href="http://www.slvwd.com/account_billing.htm">www.slvwd.com/account_billing.htm</a>   |
| 4             | C           |                      | System water audit, leak detection, and leak repair  | conduct approved water audits and loss control programs  | current                           | The District quantifies water losses monthly. When the Drought Contingency Plan is in effect, District operations put greater effort into leak detection and repairs.   |
| 5             | M           |                      | Water waste prohibition  | enact, enforce or support requirements that prohibit water waste and water shortage measures   | past and current                  | SLVWD provides news releases to update customers on water shortages, use restrictions, and contacts for reporting leaks. It has joined other water agencies in the county to coordinate efforts. A sample press release: <a href="http://www.slvwd.com/press/SLVWDPressRelease5-21-07.pdf">http://www.slvwd.com/press/SLVWDPressRelease5-21-07.pdf</a> . Policy is laid out in the Drought Contingency Management Plan. |
| 6             | J           |                      | Wholesale agency assistance program  | not applicable- SLVWD is a retail water supplier   | not applicable                    | SLVWD is not a wholesale water supplier nor does it purchase water from a wholesale supplier.   |
| 7             | G           | Education Programs   | Public information program   | implement a public information program to promote water conservation and it's benefits   | current                           | SLVWD, and in partnership with a county-wide group of water agencies, have a variety of water conservation campaigns and information materials.   |
| 8             | H           |                      | School education program   | implement school education program to enforce the need for water conservation  | current                           | SLVWD offers free activity booklets to teachers and provides water education grants to teachers and organizations. Information can be found at <a href="http://www.slvwd.com/education.htm">www.slvwd.com/education.htm</a> and class materials at <a href="http://www.watersavingtips.org">www.watersavingtips.org</a>   |
| 9             | A           | Residential Programs | Water survey programs for single-family residential and multifamily residential customers        | provide site-specific leak detection assistance and water efficiency survey and suggestions  | current                           | District provides on-site leak detection assistance in the form of suggestions and information on how to self-perform.  |
| 10            | B           |                      | Residential plumbing retrofit  | provide showerheads and faucet aerators that meet current water efficiency standards   | not implemented                   | The District disseminates technical information on indoor retrofit opportunities.   |
| 11            | F           |                      | High-efficiency washing machine rebate programs  | provide incentives for purchasing high-efficiency clothes washing machines   | current                           | Starting 9/09 the District offered credits for purchase and installation of a high efficiency clothes washer. A total of 26 washers were installed with an estimated savings of 5,100 gal/yr per washer.  |
| 12            | N           |                      | Residential ultra-low-flush toilet replacement programs  | provide incentives for replacing existing toilets with ultra low flush toilets   | past                              | District has provided credits for replacing high volume toilets with High Efficiency Toilets. In 2011-12, 77 toilets were replaced with 1.28 gpf or less toilets, resulting in savings of approximately 770 gal/day (Table 6-2).  |
| 13            | I           | Commercial/Com-      | Conservation programs for commercial and institutional accounts                                  | implement measures to achieve water savings goal of 10% of the baseline 2008 year use over a 10-yr. period   | not implemented                   | Only 4% of connections are commercial or institutional and account for approximately 10% of water deliveries.   |
| 14            | E           | Landscape            | Large landscape conservation program and incentives  | provide support and incentives to non-residential customers to improve landscape water use efficiency  | not applicable or not implemented | Non-residential large landscape customer accounts include schools and parks.  |

Table 6-1  
SLVWD Demand Management Measures  
Revised February 2016

## MEMO

TO: Board of Directors

FROM: District Manager  
PREPARED BY: Environmental Analyst

SUBJECT: EDUCATION PROGRAM ADVISORY COMMISSION  
COMMISSIONER NOMINATION FOR LINDA SKEFF

DATE: April 7, 2016

### **RECOMMENDATION:**

It is recommended that your Board review this memo and confirm Linda Skeff as Commissioner to serve on the Education Program Advisory Commission until Director Ratcliffe's term expires, December 2018.

### **BACKGROUND:**

On June 5, 2003 your Board approved District Ordinance No. 100, which established the San Lorenzo Valley Water District Education Program Advisory Commission. The purpose of the Commission is to advise the Board of Directors regarding the selection and allocation of Education Program grants.

The mission of the Education Program is to provide funding for the Educational and other projects that enhance the understanding of the San Lorenzo River watershed or improve the watershed's environmental health.

The Education Program Advisory Commission consists of five (5) Board appointed members. Each member is a registered voter of the San Lorenzo Valley Water District and maintains residency within the geographic boundaries of the San Lorenzo Valley Water District.

The appointed Commissioner Nina Moore has elected to recuse herself from the Education Program Advisory Commission in order to avoid a conflict of interest as she applied for a 2016 Classic Watershed Education Grant during this current round. In an effort to maintain five members, Director Ratcliffe has appointed Linda Skeff to serve the rest of the term as Commissioner.

FISCAL IMPACT:  
FY 14-15 Budget - None

2015 STRATEGIC PLAN:  
Strategic Element 2.0 - Watershed Stewardship

## MEMO

TO: Board of Directors

FROM: District Manager  
PREPARED BY: Environmental Programs Manager

SUBJECT: EDUCATION PROGRAM ADVISORY COMMISSION  
RECOMMENDATIONS FOR 2016 "CLASSIC WATERSHED  
GRANT" AWARDS

DATE: April 7, 2016

### **RECOMMENDATION:**

It is recommended that your Board review this memo and approve the attached resolution regarding the Education Program Advisory Commission's recommended 2015 Education Program "Classic Watershed Grant" awards.

### **BACKGROUND:**

On June 5, 2003 your Board approved District Ordinance No. 100, which established the San Lorenzo Valley Water District Education Program Advisory Commission. The Purpose of the Commission is to advise the Board of Directors regarding the selection and allocation of Education Program grants.

The mission of the Education Program is to provide funding for the Educational and other projects that enhance the understanding of the San Lorenzo River watershed or improve the watershed's environmental health.

From 2004 to 2016, the District annually budgeted up to \$17,500 to fund education grants that advance the mission of the District's Education Program. To date, the District has funded a total of 71 projects through the program. The amount awarded to date is \$166,374.

In 2010, the Commission requested that staff solicit proposals that add to the understanding of District-owned watershed lands. The Commission also requested that an optional public outreach component be added to the project guidelines, increasing maximum funding for each project from \$2,500 to \$3,000 while the budget remained at \$17,500.

On January 26, 2012 your Board held a special joint meeting with the Commission. Your Board directed staff to include two rounds of Education Program Grants each year. The first round of grants was to be designated as "Classic Watershed Grants," and would solicit proposals aimed at watershed education in schools, outdoor camps and community education through hikes and public outreach.

The second round of grants was to be designated as “Data Collection/Restoration Grants” on District lands and would be funded through the Watershed Department. The Commission would also evaluate these grant proposals, the evaluation guidelines, as well as suggested projects would be recommended by the Environmental Committee to the Board prior to the Commission’s evaluation.

### **2016 Notice of Availability and Response**

2016 is the fourth year that two rounds of Education Program Grant funding are being noticed. On February 8, 2016 staff noticed the availability of this year’s Educational Grant Program funding for “Classic Watershed Grants.” Subsequently, the District received eleven (11) “Classic Watershed Grant” proposals for a total funding request of \$30,419 summarized in Item 12b Exhibit A.

### **Evaluation Procedure**

To evaluate and score “Classic Watershed Grant” proposals, the Commission used the procedure that it established in 2006. According to this procedure, each commissioner independently evaluates and scores each grant proposal, using a standard scoring matrix. Each Commissioner returns, anonymously, the scored grant proposal application to District staff. Staff compiles the aggregate scores for review by the Commission at a scheduled public meeting (Item 11a. Exhibit B).

On March 31, 2016, the Education Advisory Commission met at a noticed public meeting to evaluate proposals, and to recommend funding awards to your Board. This year, 9 grant applicants attended the meeting and presented their projects to the Commission. At the end of the meeting, the Commission agreed on its final funding recommendations to your Board.

### **RECOMMENDED GRANT AWARDS:**

As shown in Item 11a Exhibit A to the resolution, the Commission recommended fully funding six of the eleven proposals for an aggregate sum of \$16,500. Copies of the 6 proposals recommended for funding are included in Item 11a.

It is recommended that your Board review this memo and approve the attached resolution regarding the Education Program Advisory Commission’s recommended 2016 Education Program “Classic Watershed Grant” awards.

### **FISCAL IMPACT:**

FY 15-16 Budget - Water Conservation, \$16,500

### **STRATEGIC PLAN:**

Strategic Element 2.0 - Watershed Stewardship

SAN LORENZO VALLEY WATER DISTRICT

RESOLUTION NO. 33 (15-16)

SUBJECT: APPROVAL OF EDUCATION PROGRAM ADVISORY COMMISSION  
FUNDING RECOMMENDATIONS FOR 2015 CLASSIC WATERSHED  
GRANT PROPOSALS

WHEREAS, the Education Program Advisory Commission (Commission) was established by the Board of Directors in 2003 to advise the Board regarding the selection and allocation of Education Program grants; and

WHEREAS, staff publicly noticed the 2016 Education Program Grant Notice of Availability 30 days prior to the March 11, 2016 application deadline; and

WHEREAS, staff received eleven (11) Classic Watershed Education Program grant proposals according to established procedures; and

WHEREAS, the Commission found six 2016 Classic Watershed Education Program grant proposals to satisfy the mission of the Education Program and to be worthy of funding; and

WHEREAS, Exhibit A summarizes the eleven 2016 Classic Watershed Education Program Grant proposals recommended for funding and the Commission's recommended funding levels; and

WHEREAS, the Board of Directors has reviewed and considered said recommendation,

NOW, THEREFORE BE IT RESOLVED by the Board of Directors of the San Lorenzo Valley Water District that:

Education Program Advisory Commission's recommended 2016 Education Program "Classic Watershed Grant" awards are approved for funding.

PASSED AND ADOPTED by the Board of Directors of the San Lorenzo Valley Water District, County of Santa Cruz, State of California on the 4th of June, 2015 by the following vote of the members thereof:

AYES:  
NOS:  
ABSTAIN:  
ABSENT:

---

Holly Morrison  
District Secretary

| Exhibit A: 2016 San Lorenzo Valley Water District "Classic Watershed Education Grant" Applications Summary Sheet           |  |                  |                      |   |  |   | Agenda: 4.7.16<br>Item: 12b               |
|--|--|------------------|----------------------|---|--|---|---|
| Project Title  | Project description  | Amount requested | Award Recommendation | Funds to be used for:   | Matching funds   | Public outreach component description   | Grant applicant                           |
| Environmental Monitoring   | Honors Biology prepares sophomores, juniors and seniors for a year-long monitoring project. Environmental monitoring involves juniors & seniors in conducting a year long field-based environmental science project. Each project has a mentor (a professional in the field). Students enter projects in the Monterey Bay Sanctuary Symposium, Santa Cruz County Science Fair & the SLVHS Science Symposium. | \$3,000          | \$3,000              | \$1500 Mentor Stipends; \$450 Poster Boards; \$250 refreshments/supplies for poster review session; \$200 for honorariums to students w/financial need; \$600 Equipment, kit refills etc. | San Lorenzo Valley School District is providing a part time position to and stipend to support the program. Past grants have purchased labs, and computers, materials and equipment. | Science Symposium in June 2016; Local papers including the Sentinel and Press Banner host announcements; SLVHS web page, Marquee and Cougar Mail will advertise events.                                       | Jane Orbuch<br>Science Teacher            |
| Watershed Nature Walks   | Series of six 2+ hour long watershed walks, led by local experts, free and open to all, held on Saturdays, summer and fall. (All six experts have been recruited & walks are being arranged.)  | \$3,000          | \$0                  | \$100 each as stipend for 6 experts; \$1900 Grant Directors Duties; \$500 Public Outreach   | n/a  | \$500; Applicant will write an article and taking a photograph for each walk in hilltropolmer.com announcing each walk beforehand, including a photograph of the walk area and bio of expert leading the walk | Carol Carson                              |
| Water and Environmental Awareness through Science Literacy: K-3 Science Enrichment at San Lorenzo Valley Elementary School | Deliver 4 water science lessons to approx 400 students at SLVE grades K-3; Provide Science Notebooks to students to record observations and collect data and conduct experiments as well as journal observations; Support coordination of the school Science Fair.   | \$2,500          | \$2,500              | Water Science Lessons \$25 /hr. @ 56 hours = \$1400; Science Journals \$2.00 X 300 students = \$600; Science Fair Coordination \$25/hr. X 20 hours = \$500                                | The total cost of the program is \$15,000. The Bobcat Club fundraising will match the proposed grant several times over to reach goal.   | n/a   | San Lorenzo Valley Elementary Bobcat Club |
| Banana Slug String Band  | Interactive and Engaging performances that integrate music, theater, movement & Pupperty to teach watershed education to elementary school students and teachers.  | \$3,000          | \$0                  | \$600 - \$800 Assembly Cost (per school) Public Show \$600  | Banana Slug String Band provides all instruments, costumes, soundsystem, administration and transportation & original music.   | 3-4 elementary school assemblies in SLV and SV Local press (radio and newspapers) Facebook, Twitter, and LinkedIn Network.  | Larry Graff Co-Manager                    |
| Fifth Graders to Science Camp  | To lower the costs for families of fifth grade students attending the Camp Campbell Outdoor Science School (CCOSS) May 24-27, 2016.  | \$2,500          | \$2,500              | \$2500 used to reduce cost of Camp Campbell Outdoor Science School.   | Fundraising through concession sales & Family Dinner Night.  | n/a   | Boulder Creek Elementary Parents Club     |
| Family Science Night at SLVE   | Family Science Night is an engaging and fun event where students, siblings, and parents learn about science, as it is related to water and watersheds.   | \$2,500          | \$2,500              | Family Science Night Package from Childrens Discovery Museum \$1000; Coordinator Stipends \$700; Supplies \$400; Activity Stations \$400  | In-kind matching funds valued at the following: SLVUSD \$900; Twelve volunteers \$15/hour \$720; CWC staffing \$400  | n/a   | SLV Elementary School                     |
| Watershed Rangers  | In an after-school program, 15 SLVMS students will enhance understanding of watershed issues including watershed dynamics, endangered/ invasive species and water quality to develop leadership skills necessary to engage the SLV community in the preservation and protection of the San Lorenzo River watershed.  | \$3,000          | \$3,000              | Project oversight \$100; Teachers & lesson planning \$300; Classroom & Field instruction & Travel \$1925; Evaluation \$100; advertising materials \$500; Mileage \$75                     | City of Santa Cruz \$28,139  | Publicize and host a student-led community service day. Promoted on social media, Local Media and supplies for the event.   | Coastal Watershed Council                 |
| On the Spot Education Program  | The Museum will train docents who will facilitate hands-on activity stations and spotting scopes at two locations along Seabright Beach (at the entrance to Seabright Beach and further to the west along East Cliff Drive) educating the public about watershed ecology, water quality, wildlife, geology, recreational uses, and environmental concerns.   | \$3,000          | \$0                  | \$1022 Education Manager; Volunteer Manager \$1344; Materials \$1400; Marketing \$800   | Additional support will be allocated to ensure the success of this program from unrestricted funds in the SCMNH operating budget.  | the Museum will publicize this educational opportunity on social media, community calendars, local publications, and radio advertisement.   | Santa Cruz Museum of Natural History      |
| Moving Like a River San Lorenzo River Outreach Program   | Through workshops, map-making, guided river tours, photography, video, and collaborative sculpture, local artists and scientists to collaborate creatively together with the public about the characteristics of the river, ultimately concluding in a remediation proposal at the end of the program period.  | \$1,919          | \$0                  | \$1,195 Audio/Visual Equipment; \$187 art supplies; \$80 Website domain; \$707 Media and outreach supplies  | Museum of Art & History and Museum of Natural History to provide space to house the project. CWC to provide workshops, guides, and material support                                  | Sentinel Ads and Website  | Heidi Cramer                              |

| Project Title  | Project description  | Amount requested | Award Recommendation | Funds to be used for:  | Matching funds | Public outreach component description   | Grant applicant |
|--|--|------------------|----------------------|--|----------------|---|-----------------|
| Smart, Safe and Compliant Cannabis Cultivation Practices in the Santa Cruz Mountains | Research, design, development, production and dissemination of informational material addressing the local and state environmental regulations affecting the cultivation of cannabis for use by current and prospective growers within the San Lorenzo Valley Watershed. public event involving presentations, demonstrations and discussion about regulations, restrictions and best practices. | 3,000            | 0                    | \$1000 Project management; \$500 Research and materials development; \$500 Honorariums; \$250 Supplies; \$250 Event Venue & equipment; \$500 Public Outreach | n/a            | Every effort will be made to connect with local growers through traditional and online media, community groups, local vendors who support cultivation, and other touch points we identify.  | Jim Coffis      |
| Fall Creek Fish Ladder & Salmonid Cycle Educational Rail Signage                     | This sign will illustrate the relationship of salmonids, the fish ladders, and the environment of Fall Creek as part of the San Lorenzo watershed. Whereby enhancing the understanding of human impact of watershed stewardship and environmental health of it's water customers.  | 3,000            | \$3,000              | \$200 Reasearch & Writing; \$1920 Design; \$140 fact-checking; \$240 Illustration; \$100 Photography; \$400 Promotional efforts                              | n/a            | Publicity would be a ribbon-cutting photo-op & article in the Press Banner, HillTromper, and SLVWD homepage, in addition to posting with photos taken and shared with blurbs and kudos through numerous colleagues. See Application for more... | Nina Moore      |
| <b>Total requested funds</b>   |  | <b>\$30,419</b>  | <b>\$16,500</b>      |  |                |   |                 |
| <b>Available budget: \$17,500</b>  |  |                  |                      |  |                |   |                 |



| SAN LORENZO VALLEY WATER DISTRICT                                    |            |                |           |             |            |            |                 |
|--|------------|----------------|-----------|-------------|------------|------------|-----------------|
| CLASSIC WATERSHED EDUCATION GRANT PROGRAM                            |            |                |           |             |            |            |                 |
| GRANT PROPOSAL APPLICATION SCORING FORM                              |            |                |           |             |            |            |                 |
| SPRING 2016  |            |                |           |             |            |            |                 |
|  |            |                |           |             |            |            |                 |
| <b>Environmental Monitoring</b>                                      |            |                |           |             |            |            |                 |
|  |            |                |           | Educational | Viability  | Creativity | Total Aggregate |
|  | Responsive | Non-Responsive | Outreach  |             | of Project | of Project | Score           |
| 1  | X          |                | 10        |             | 5          | 5          | 20              |
| 2  | X          |                | 9         |             | 5          | 5          | 19              |
| 3  | X          |                | 10        |             | 5          | 5          | 20              |
| 4  | X          |                | 10        |             | 5          | 5          | 20              |
| 5  | X          |                | 10        |             | 5          | 5          | 20              |
| <b>TOTAL</b>   | <b>X</b>   |                | <b>49</b> |             | <b>25</b>  | <b>25</b>  | <b>99</b>       |
| <b>Watershed Nature Walks</b>  |            |                |           |             |            |            |                 |
|  |            |                |           | Educational | Viability  | Creativity | Total Aggregate |
|  | Responsive | Non-Responsive | Outreach  |             | of Project | of Project | Score           |
| 1  | X          |                | 10        |             | 5          | 5          | 20              |
| 2  | X          |                | 9         |             | 5          | 4          | 18              |
| 3  | X          |                | 10        |             | 5          | 5          | 20              |
| 4  | X          |                | 10        |             | 3          | 5          | 18              |
| 5  | X          |                | 10        |             | 3          | 3          | 16              |
| <b>TOTAL</b>   | <b>X</b>   |                | <b>49</b> |             | <b>21</b>  | <b>22</b>  | <b>92</b>       |
| <b>Water &amp; Env. Awareness through Science Literacy: K-3 SLVE</b> |            |                |           |             |            |            |                 |
|  |            |                |           | Educational | Viability  | Creativity | Total Aggregate |
|  | Responsive | Non-Responsive | Outreach  |             | of Project | of Project | Score           |
| 1  | X          |                | 10        |             | 5          | 5          | 20              |
| 2  | X          |                | 8         |             | 4          | 3          | 15              |
| 3  | X          |                | 10        |             | 5          | 5          | 20              |
| 4  | X          |                | 10        |             | 5          | 4          | 19              |
| 5  | X          |                | 10        |             | 5          | 5          | 20              |
| <b>TOTAL</b>   | <b>X</b>   |                | <b>48</b> |             | <b>24</b>  | <b>22</b>  | <b>94</b>       |
| <b>Banana Slug String Band</b>                                       |            |                |           |             |            |            |                 |
|  |            |                |           | Educational | Viability  | Creativity | Total Aggregate |
|  | Responsive | Non-Responsive | Outreach  |             | of Project | of Project | Score           |
| 1  | X          |                | 10        |             | 5          | 5          | 20              |
| 2  | X          |                | 9         |             | 4          | 5          | 18              |
| 3  | X          |                | 10        |             | 5          | 5          | 20              |
| 4  | X          |                | 10        |             | 3          | 5          | 18              |
| 5  | X          |                | 3         |             | 1          | 2          | 6               |
| <b>TOTAL</b>   | <b>X</b>   |                | <b>42</b> |             | <b>18</b>  | <b>22</b>  | <b>82</b>       |

| <b>Fifth Graders to Science Camp - BCE Parents Club</b>             |            |                |          |             |            |            |             |           |
|---|------------|----------------|----------|-------------|------------|------------|-------------|-----------|
|   |            |                |          |             |            |            |             |           |
|   | Responsive | Non-Responsive | Outreach | Educational | Viability  | Creativity | Total       | Aggregate |
|   |            |                |          |             | of Project | of Project | Score       |           |
| 1   | X          |                |          | 10          | 3          | 5          | 18          |           |
| 2   | X          |                |          | 5           | 5          | 3          | 13          |           |
| 3   | X          |                |          | 8           | 4          | 4          | 16          |           |
| 4   | X          |                |          | 10          | 3          | 4          | 17          |           |
| 5   | X          |                |          | 10          | 5          | 5          | 20          |           |
| <b>TOTAL</b>  |            |                |          | <b>43</b>   | <b>20</b>  | <b>21</b>  | <b>84</b>   |           |
| <b>Family Science Night SLVE</b>                                    |            |                |          |             |            |            |             |           |
|   | Responsive | Non-Responsive | Outreach | Educational | Viability  | Creativity | Total       | Aggregate |
|   |            |                |          |             | of Project | of Project | Score       |           |
| 1   | X          |                |          | 10          | 5          | 5          | 20          |           |
| 2   | X          |                |          | 8           | 4          | 5          | 17          |           |
| 3   | X          |                |          | 10          | 5          | 5          | 20          |           |
| 4   | X          |                |          | 10          | 3          | 3          | 16          |           |
| 5   | X          |                |          | 5           | 2          | 2          | 9           |           |
| <b>TOTAL</b>  |            |                |          | <b>43</b>   | <b>19</b>  | <b>20</b>  | <b>82</b>   |           |
| <b>Watershed Rangers - CWC</b>                                      |            |                |          |             |            |            |             |           |
|   | Responsive | Non-Responsive | Outreach | Educational | Viability  | Creativity | Total       | Aggregate |
|   |            |                |          |             | of Project | of Project | Score       |           |
| 1   | ?          |                |          | ?           | ?          | ?          | 16.5        |           |
| 2   |            | X              |          | 5           | 2          | 2          | 9           |           |
| 3   | X          |                |          | 9           | 5          | 5          | 19          |           |
| 4   | X          |                |          | 10          | 4          | 4          | 18          |           |
| 5   | X          |                |          | 10          | 5          | 5          | 20          |           |
| <b>TOTAL</b>  | <b>X</b>   |                |          | <b>34</b>   | <b>16</b>  | <b>16</b>  | <b>82.5</b> |           |
| <b>ave</b>  |            |                |          | <b>8.5</b>  | <b>4</b>   | <b>4</b>   | <b>16.5</b> |           |
| <b>On the Spot Education Program - SC Museum of Natural History</b> |            |                |          |             |            |            |             |           |
|   | Responsive | Non-Responsive | Outreach | Educational | Viability  | Creativity | Total       | Aggregate |
|   |            |                |          |             | of Project | of Project | Score       |           |
| 1   | X          |                |          | 10          | 3          | 3          | 16          |           |
| 2   | X          |                |          | 9           | 5          | 4          | 18          |           |
| 3   | X          |                |          | 8           | 3          | 4          | 15          |           |
| 4   | X          |                |          | 8           | 4          | 3          | 15          |           |
| 5   | X          |                |          | 4           | 2          | 2          | 8           |           |
| <b>TOTAL</b>  | <b>X</b>   |                |          | <b>39</b>   | <b>17</b>  | <b>16</b>  | <b>72</b>   |           |



**Commissioner comments: 2016 Classic Watershed Education grant proposal applications**

| Reviewer # | Proposal title and reviewer comments   |
|------------|--|
|            | <b>ENVIRONMENTAL MONITORING</b>  |
| 1          | This is still a very worthy project. It also seems to be growing with more students taking part. |
| 2          | Recommend \$2500? Excellent project, high quality results.                                       |
| 3          | Very successful program. Request is for \$3000 w/o \$500 for public outreach component.          |
| 4          | Excellent application & project.   |
| 5          |  |

|   |  |
|---|--|
|   | <b>WATERSHED NATURE WALKS</b>  |
| 1 | I've been on several of these walks, they are always informative and enjoyable   |
| 2 | Successful program, except 2015. Will recommend funding full amount when we have a satisfactory report on 2015-16 project. |
| 3 | This is one of the best received programs funded through the grants. Wait 1 year until 2015 is complete to fund again.     |
| 4 | Great program. Would like to see plans for extended 2015 contract.   |
| 5 |  |

|   |  |
|---|--|
|   | <b>WATER AND ENVIRONMENTAL AWARENESS THROUGH SCIENCE LITERACY: K-3 SLVE</b>  |
| 1 | I like that this science projects for grades k-3 & that it is connected to the Science Fair. It's great to get kids interested in Science early. |
| 2 | Was this proposal funded before? I'd like to see the entire budget for this project.   |
| 3 | No comment.  |
| 4 | No comment.  |
| 5 |  |

|   |  |
|---|--|
|   | <b>BANANA SLUG STRING BAND</b>   |
| 1 | A great way to get across the importance of our watershed to kids.   |
| 2 | Very successful in promoting healthy watershed awareness. Provide a proper budget! Shows: 2 SLV & 2 in SV & 1 Public Event?    |
| 3 | Although I scored this proposal with max points. With limited funds we may want to take a break on year from funding this one. |
| 4 | Like to see performances be a public program in order to receive outreach component.   |
| 5 |  |

|   |   |
|---|---|
|   | <b>FIFTH GRADERS TO SCIENCE CAMP - BCE</b>  |
| 1 | This grant should help families in need, not families who are financially stable. It doesn't seem fair to fund everybody. |
| 2 | Not an environmental Project. Will the price be reduced for everybody or only those who cannot afford the full price?     |
| 3 | No comment.   |
| 4 | Glad to see a proposal for BC students.   |
| 5 |   |

|           |   |   |
|-----------|---|---|
|           |   | <b>FAMILY SCIENCE NIGHT AT SLVE</b>   |
| 6         | 1 | No comment.   |
| 7         | 2 | Creative Ideal! Only reaching the larger audience at one event. Expensive for one event. Need evaluation of successful outcomes for parents & Students.                           |
| Agenda: 4 | 3 | Sounds fun & educational for families and students.   |
| Item: 12b | 4 | Good proposal - but with so many applications and 2 from SLVE, I'd like to see funding in other areas.  |
|           | 5 |   |
|           |   | <b>WATERSHED RANGERS</b>  |
|           | 1 | No comment.   |
|           | 2 | Unclear what they propose to do. Appears to be a standardized application; not specific to SLVMS.   |
|           | 3 | Like the community service day - not sure if additional \$500 outreach funds are necessary or warranted.  |
|           | 4 | No comment.   |
|           | 5 |   |
|           |   | <b>ON THE SPOT EDUCATION PROGRAM - MUSEUM OF NATURAL HISTORY</b>  |
|           | 1 | Not sure how much it will make an impact on the public for the cost. Good project tho.  |
|           | 2 | Very well done proposal. Excellent budget.  |
|           | 3 | Not clear on how additional funds will be raised. Needs more on SLV watershed.  |
|           | 4 | This is a great proposal, but I'd like to see something more specific in the SLV watershed.   |
|           | 5 |   |
|           |   | <b>MOVING LIKE A RIVER</b>  |
|           | 1 | Innovative Idea.  |
|           | 2 | Difficult to understand who would make all events happen and what portion of costs were covered by partners. Creative ideas.  |
|           | 3 | Proposal somewhat freeflowing and disjointed - hard to decide whether it was responsive to application information request.   |
|           | 4 | Nice blend of art & Science but application elements are vague or missing.  |
|           | 5 |   |
|           |   | <b>SMART, SAFE AND COMPLIANT CANNABIS CULTIVATION</b>   |
|           | 1 | Seems like a lot of money for this project. I think the County should be doing outreach.  |
|           | 2 | Need to focus on health of watershed. Audience may be small. Must involve accurate regulations. Not to approve more than \$2500. Perhaps wait for County regulatory action?       |
|           | 3 | Interesting. Seems similar to flyer developed by WC for septic tank users. While timely, maybe the District could coordinate activities with other gov. agencies and non-profits. |
|           | 4 | Interesting subject but some application elements are vague or missing.   |
|           | 5 |   |
|           |   | <b>FALL CREEK FISH LADDER AND SALMONID CYCLE EDUCATIONAL RAIL</b>   |
|           | 1 | Great Ideal!  |
|           | 2 | Excellent proposal. Recommend Full Funding (minus 40 cents.)  |
|           | 3 | Good visual project. Will be seen often. Okay to mount on bridge? Graffiti proof? Do before ladder project is complete? Other groups on sign? Perhaps others want to contribute?  |
|           | 4 | No comment.   |
|           | 5 |   |

### Comparative scores & funding requested for projects above median of 82 MARCH 2016

| Ranking      | Grant proposal                             | Scores |    |    |    |    |    |       |       | Total Score   | Total funding request | Public outreach | Recomm ended |
|--------------|--|--------|----|----|----|----|----|-------|-------|---------------|-----------------------|-----------------|--------------|
|              |  | 20     | 19 | 20 | 20 | 20 | 20 | 20    | 20    |               |                       |                 |              |
| 1            | ENVIRONMENTAL MONITORING                   | 20     | 19 | 20 | 20 | 20 | 20 | 20    | 99    | 3,000         | 500                   | 3000            |              |
| 2            | K-3 SCIENCE ENRICHMENT                     | 20     | 15 | 20 | 19 | 20 | 20 | 20    | 94    | 2500          | 0                     | 2500            |              |
| 2            | FALL CREEK FISH LADDER RAIL SINAGE         | 20     | 19 | 19 | 16 | 20 | 20 | 20    | 94    | 3,000         | 500                   | 3000            |              |
| 3            | WATERSHED NATURE WALKS                     | 20     | 18 | 20 | 18 | 16 | 16 | 20    | 92    | 3,000         | 500                   | 0               |              |
| 4            | 5th GRADE TO SCIENCE CAMP                  | 18     | 13 | 16 | 17 | 20 | 20 | 20    | 84    | 2,500         | 0                     | 2500            |              |
| 5            | BANANA SLUG STRING BAND                    | 20     | 18 | 20 | 18 | 16 | 6  | 20    | 82    | 3,000         | 500                   | 0               |              |
| 5            | FAMILY SCIENCE NIGHT SLVE                  | 20     | 17 | 20 | 16 | 9  | 20 | 82    | 2,500 | 0             | 2500                  |                 |              |
| 5            | WATERSHED RANGERS                          | 16.5   | 9  | 19 | 18 | 20 | 20 | 82.5* | 3,000 | 500           | 3000                  |                 |              |
| 6            | Smart Safe & Compliant Cannabis Cultivator | 14     | 15 | 15 | 14 | 20 | 78 | 3,000 | 500   | 0             |                       |                 |              |
| 7            | On the Spot Education Program              | 16     | 18 | 15 | 15 | 8  | 72 | 3,000 | 500   | 0             |                       |                 |              |
| 8            | Moving like a River SLR Outreach           | 20     | 12 | 11 | 15 | 6  | 64 | 1,919 | 0     | 0             |                       |                 |              |
| <b>Total</b> |  |        |    |    |    |    |    |       |       | <b>30,419</b> | <b>3,500</b>          | <b>16500</b>    |              |

|                              |               |
|------------------------------|---------------|
| <b>Budget</b>                | 17,500        |
| <b>Total funds requested</b> | 30,919        |
| <b>Amount recommended</b>    | <b>16,500</b> |

**1. Proposal Submitted by:** Jane Orbuch, Science Teacher, San Lorenzo Valley High School

**2. Contact Person:** Jane Orbuch  
San Lorenzo Valley High School  
7105 Hwy 9  
Felton, CA 95018  
831-335-4425  
[jorbuch@slvusd.org](mailto:jorbuch@slvusd.org)

**3. Title of Project:** Environmental Monitoring

**4. Amount of Funds Requested:** \$3000.00

**5. Description & Summary of Project:** This will be the seventh year that I am asking for funds to support the Environmental Monitoring Course at San Lorenzo Valley High School (SLVHS). We will have 11 returning projects and approximately 25 returning students—our biggest class ever! I, Jane Orbuch-instructor, will be recruiting additional students this spring and several have voiced interest in starting projects next year. The San Lorenzo Valley Unified School district has been supporting the program with a part-time salary to fund instructor time to run Environmental Monitoring. This small salary allows instructor to release Water District funds to buy equipment, supplies and support mentor stipends (the key to the program). Environmental Monitoring gives sophomore, junior and senior High School students the opportunity to apply their education in science, English, Engineering, Aquaculture and Math and integrate it into (at least) a year-long field-based environmental science project. The class does not formally meet—but the instructor will meet with student groups after school several times a year and remain in close contact with them via email. Instructor will also encourage freshmen science students to participate in the [Forestry Challenge](#) (an event similar to a monitoring project). Student projects range from Phytoplankton Monitoring and Wildlife Tracking to Atmosphere and Fecal Coliform testing. Each project has a mentor (a professional in the field) to answer questions and work with students in the field and lab without which the program could not succeed. Students submit monthly project reports to the instructor and develop a PowerPoint presentation on their procedures, data, analysis and conclusions at the end of the course. Students enter their projects in the Santa Cruz County Science Fair and the SLVHS Science Symposium. Second and third year students are also entering their projects in the Google Science Fair. Successful projects have been invited to participate in the California State and International Science Fairs.

**6. Statement of Needs/Problems to be Addressed:** This program, Environmental Monitoring, would not exist without Water District funding for supplies, equipment, and stipends for mentors. The mentor stipends are the key to the program as they support with their expertise the 12 different projects I had running this year. The school district's support is solely salary for instructor's time. This project is needed to support students in their pursuit of monitoring the health of the San Lorenzo Valley Watershed and doing field and lab based long-term science. The funding will preserve and continue student monitoring and data collection in the local environment while creating a generation of Watershed stewards who will continue to educate the community.

**7. Overall Goals and Primary Objectives:** The overall goal of this project is to support the teaching of the Environmental Monitoring course. The specific objective is to have high school students monitoring aspects of the San Lorenzo Watershed and local environment for at least one year and have them display their completed work at the Santa Cruz County Science Fair and the Science Symposium. Students will be able to:

1. Demonstrate that science is a process by performing field and laboratory exercises.

2. Demonstrate and use technologies such as monitoring equipment, camera traps, GPS, spreadsheets and databases to collect and analyze laboratory and field data.
3. Communicate projects, data and information using multimedia and web-based technologies.
4. Work effectively, cooperate and communicate with a partner and mentor for a minimum one-year period.
5. Produce a monitoring binder, science fair poster, research paper and PowerPoint presentation on their project.

**8. Achievement of Goals:** Goals and objectives will be demonstrated by (1) Water Dept staff participating in Poster Review Session (2) Photos of students and monitoring activities on the SLVHS web site (3) If we are lucky, list of Student Science Fair Award winners on County Science Fair Web site and announced in Press Banner and Santa Cruz Sentinel (4) Community invited to Science Symposium at SLV High in June.

**9. Qualifications:** Jane Orbuch has been teaching science at San Lorenzo Valley High School since 1986 and has directed the Environmental Monitoring course since 1999.

**10. Key Participants:** Jane Orbuch of San Lorenzo Valley High School will administer the grant and run the Environmental Monitoring Program. Noreen Nolan, high school counselor, will assist with planning and presentations at the Science Symposium. Other key personnel are the mentors for student projects and in the past have included Dave Schwartz (Cabrillo College), John Pearse (Professor Emeritus UCSC), Stefanie Bourcier, Emily Gottlieb (Limpets Coordinator) Jeff Smith (Ornithologist), Michael Loik (UCSC), Gregg Langlois (CA Dept Health), Monterey Bay Air Pollution Control District and Pathways for Wildlife personnel, Suzanne Shettler (Botanist) and Kendra Negrey (UCSC).

**11. Statement of Work:** Work to be undertaken includes the following (1) Supervise the already enrolled students and recruit new students (2) Maintain contact with the mentors for projects (3) Update and maintain Environmental Monitoring Web site:

<https://sites.google.com/a/slvusd.org/environmental-monitoring-web/> (4) Insure students are collecting data and working on their project 4-6 hours a month Sept-June (5) Plan and implement Poster Review Session (6) Assist students participating in Santa Cruz County Science Fair <http://science.santacruz.k12.ca.us/> and Science Symposium at SLVHS (7) Publicize all events through High School Website and Cougar Mail, in addition to local newspapers (8) Provide statistics training for students (9) Proof and grade project research paper and final report.

**12. Timeline** (1) Monitoring student recruitment SLVHS Open House in April and meeting lunch, May 2016 (2) Plan and practice students for Science Symposium June 2016 (3) Check in with mentors for projects Spring/Summer 2016 (4) Begin some projects over the summer (5) Meet with students enrolled in Environmental Monitoring individually, Sept/Oct 2016 (6) Recruit freshmen to participate in Forestry Challenge Nov 2016 (7) Insure students are collecting data and working on their project 4-6 hours a month through a Monitoring Binder collected and graded monthly, Sept-Jan (8) Field/lab observation with each monitoring group, June-October 2016 (9) Meeting with each monitoring group regarding Research Paper, Dec 2016 (10) Project Research Paper due Jan 2016 (11) Meet with each group to edit Science Fair abstract, enter fair and review tasks ahead (12) Plan and implement Statistics session and office hours for all students (13) Plan and implement Poster Review Session three weeks before County Fair (mini pre-science fair for students) Feb 2017 (14) Assist student monitors with County Science Fair Posters (15) Transport posters and students to fair (16) Attend Science Fair Award Ceremony (17) Remind 2<sup>nd</sup> year + students to enter Google Science Fair (18) Plan and practice student presentations for Science Symposium, June 2017 (19) Science Symposium SLV High, June 2017 (20) Submit Final report by June 30, 2017



**13. Monitoring Program Description:** Environmental Monitoring is an elective or practical arts course in the Science Department at San Lorenzo Valley High School and is encouraged to be taken initially in conjunction with AP Environmental Science. Letter grades are based on monthly reports, research paper, attendance at meetings/events, final project report and PowerPoint. Units are based on hours log submitted in June. (1) Monitoring must be done on a weekly or biweekly basis. You must collect two sets of data a month. (4-6 hours)—about 2 weeks apart. (2) Group meetings with instructor at lunch or after school several times during the year—to be arranged. (3) Monthly progress reports and corrections are required in Monitoring binder (4) All email with mentor is to be forwarded to instructor and printed for binder. The returning projects for 2016/17 should be: Coliform, Sand Crabs, Amphibians, Phytoplankton, Wildlife Tracking, Birds, Tidepools(3 teams) and Sandhills.

**14. Education Mission Statement Support:** Funding the Environmental Monitoring Course perfectly relates to and supports the district's Education Program Mission Statement. Over the last 17 years, SLVHS student monitoring projects have enhanced the understanding of the San Lorenzo River Watershed through measuring river water quality, monitoring amphibians and riparian birds, modeling salmon populations and temperature requirements and monitoring the impact of the watershed on the coastal environment. The SLVHS Science Symposium has enhanced the communities understanding of the watershed and garnered support for further watershed studies. Also, many of the program's graduates continue to work with current students and have gone on to careers in science.

**15. Other Sources of Funding:** The San Lorenzo Valley Unified School district and San Lorenzo Valley High school provide administrative support, classroom labs, and funding for instructors time via a part time position or stipend for Environmental Monitoring. Past grants from the State and the Water District have purchased computers, materials, equipment, weather stations, and software for student project use. Several mentors and poster reviewers volunteer their time to mentor students and review projects.

**16. Public Outreach:** The public outreach component of this project will culminate in the SLVHS Science Symposium in June 2017. Local papers including the Sentinel and Press Banner host announcements, the San Lorenzo Valley High School web page and marquee and Cougar Mail also advertise these events. At the symposium, most students present 10 minute PowerPoint presentations on their projects findings for the public, mentors, staff, students and community. Also, students will share their posters informally with attendees during intermission and after the presentations recruit future students for projects. This year, both Honors Biology courses (60 freshmen) will be attending and we hope to recruit future monitors out of this pool of talent and interest. This is an excellent venue to educate the local community about our Watershed. Additional publicity for this project includes press releases on the County Science Fair winners in local press and school web site.

**San Lorenzo Valley Water District Education Grant Program  
 Budget Summary**

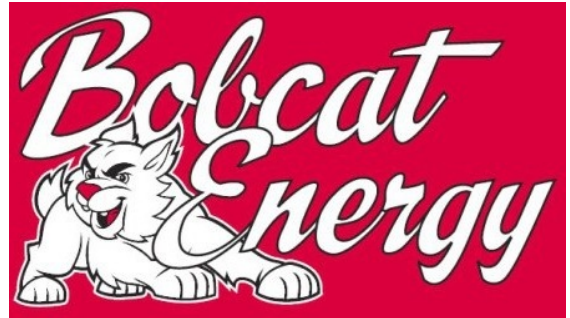
| <b>Item</b>  | <b>Amount</b>        |
|--|----------------------|
| Stipend for Grant instructor   | Left over funds only |
| Mentor Stipends (~10 possible) \$150 each project  | \$1500.00            |
| Poster Board Printing--2nd year+ award winning students only-\$75 each                                     | \$450.00             |
| Refreshments/Supplies for Poster Review and Science Symposium  | \$250.00             |
| \$50.00 honorariums to support students in financial need selected to attend California State Science Fair | \$200.00             |
| Misc Equipment, kit refills etc to support student projects  | \$600.00             |
|  |                      |
| <b>Total Requested</b>   | <b>\$3000.00</b>     |

*Note:* Flexibility in funding is essential because it is unknown how many students/mentors will be participating, what their needs will be and whether they will be successful at fairs.

**IMPORTANT:** If this grant is funded by the Water District, please do not fund until we determine we have enough students participating to make financial support worthwhile. We should know by the end of August 2016 and will advise Water District personnel.

## Water and Environmental Awareness through Science Literacy: K-3 Science Enrichment at San Lorenzo Valley Elementary School

**San Lorenzo Valley Elementary Bobcat Club**  
**Attention: Hilde Largay, K-3 Science Enrichment Teacher**  
c/o San Lorenzo Valley Elementary School  
7155 Highway 9, Felton, CA 95018  
831-335-4475  
hildelargay@gmail.com



**Funding amount requested: \$2500**

### Summary

This project would support the education of approximately 400 San Lorenzo Valley students in the basics of the science of water, and build science literacy at an early age.

It would:

- match Bobcat Club funding of a Science Enrichment Teacher for grades K-3,
- provide science notebooks to students in 1<sup>st</sup> through 3<sup>rd</sup> grades for use in recording their observations and collecting data on a variety of experiments, and
- support the Science Enrichment Teacher in the coordination of the school Science Fair.

### Need

The principles of watershed stewardship and water conservation are built on a foundation of science and engineering. When citizens are asked to change their behavior, whether that means turning off the tap while they brush their teeth, or preventing erosion in the watershed, they often ask why. Without an appreciation for science, people often doubt the experts charged with managing our resources, especially when those experts ask them to do something inconvenient or less fun than what they had in mind. But with an understanding of the fundamentals of physics and earth science, and an appreciation of the scientific method, people are more likely to understand the rationale behind conserving resources or reducing pollution and act accordingly.

Students at the San Lorenzo Valley Elementary School receive an excellent education. But without external funding, education in science for K-3 students is led by their classroom teacher. These teachers, while exceptionally capable, often don't have the capacity to support hands-on science, which requires extensive preparation and specialized materials. The proposed project will help support a dedicated Science Enrichment teacher who will collaborate with the classroom teachers to provide that hands-on experience with a focus on water and the scientific method.

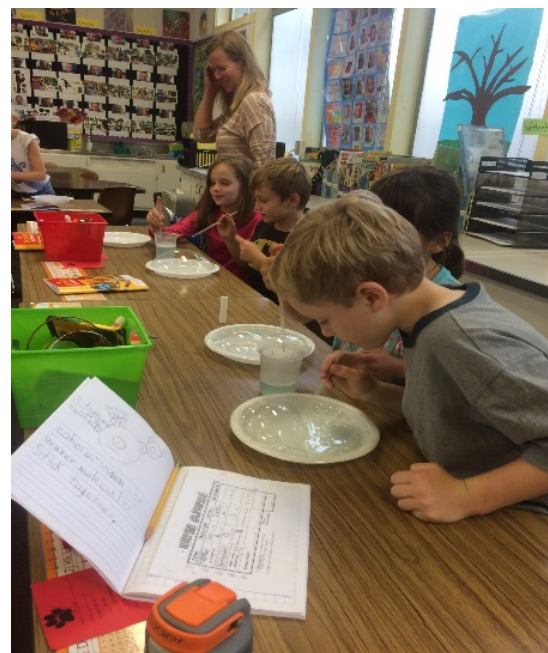
The San Lorenzo Valley Elementary School Science Fair is an annual event that inspires 40 to 60 students to take the extra step of developing an independent science fair project, including designing and executing an experiment, and presenting the results to a number of judges. The school regularly fills all of the 10 places available to it at the County Science Fair.

Essential to good science is good note-taking. By providing the students with science notebooks, the project would elevate students' perceptions of the program with the special notebooks, and enable students to learn strong methods for capturing their observations.

### **Project Goal and Measures of Success**

This project aims to strengthen our community's science literacy with a focus on water and watersheds. The key objectives are to:

- Deliver an average of four water science lessons to each of approximately 400 school children at the San Lorenzo Valley Elementary School, grades K-3
  - *Success metric: tally of students and number of lessons*
- Dedicate those lessons to aspects of science that are fundamental to water resources management:
  - the water cycle and states of matter
  - physics of water: water molecules, surface tension, capillary action
  - watersheds and our local water system
  - water treatment and conservation
  - *Success metric: brief summary of lessons per grade*
- Coordinate the San Lorenzo Valley Elementary Science Fair
  - *Success metric: tally of projects and number of volunteers*
- Provide science notebooks to participating 1<sup>st</sup> – 3<sup>rd</sup> grade students
  - *Success metric: tally of notebooks distributed*



### **Qualifications, Leadership and Key Participants**

The Bobcat Club is a group of parents committed to providing excellent educational experiences and support for all our kids at SLVE. The Bobcat Club raises funds and provides support for the following programs:

- Art Masterpiece
- Yearbook

- Life Lab Science
- Science Enrichment Teacher (K-3)
- Music Enrichment Teacher (K-3)

Supervision of staff hired to deliver programs funded through the Bobcat Club is provided by the principal of San Lorenzo Valley Elementary. Shannon Calden has been the principal for six years, and oversees a staff of over 30 professional educators.

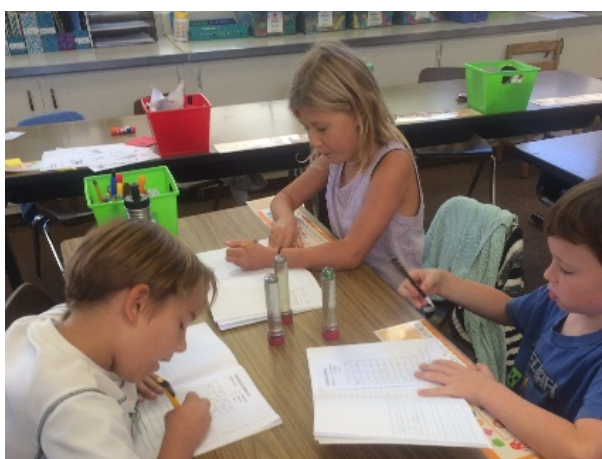
The science enrichment teacher whose work would be supported by the proposed grant, Hilde Largay, is a California credentialed multiple-subject educator with ten years of primary grade classroom experience. She has been teaching the K-3 Science Enrichment program for three years. She is fluent in Spanish.

## Scope of Work

### Water Science Lessons

The proposed water science lessons would be integrated into the existing K-3 Science Enrichment Program at San Lorenzo Valley Elementary School. The logistics of the K-3 Science Enrichment Program are already established: Once a week for 17 weeks the Science Enrichment Teacher visits each first through third grade classroom to deliver a 45-minute lesson. Each kindergartener receives a 30-minute lesson every other week for 17 weeks. Each grade level has approximately 100 students. This grant, by sponsoring four lessons for each student, will provide approximately 1600 learning experiences in science related to water resources.

The K-3 Science Enrichment Program is oriented towards hands-on science to foster a love of learning and an appreciation for making direct observations, recording them and analyzing the results. The proposed project would support topics of particular relevance to science literacy as it relates to water. We expect that this hands-on experience will help cement the concepts that these students will use for the rest of their lives as educated water users.



Focus topics include the water cycle and states of matter: evaporation, condensation, precipitation, water as solid, liquid and gas; the physics of water: water molecules, surface tension, and capillary action. Lessons will also cover our local watershed and water treatment. Other topics could include potential and kinetic energy, including how energy governs the flow of water, with examples provided related to pumps, tanks, water pressure, and stream flow.

### The San Lorenzo Valley Elementary Science Fair

Enthusiastic students will benefit from the opportunity to go deeper into the scientific method. The proposed project will support the coordination of the San Lorenzo Valley Elementary Science Fair. Coordination includes managing volunteers who coach students and judge

projects, as well as set-up, break down, and providing advice to students and parents. This year nearly 50 students participated in the science fair, entering nearly 40 projects. We anticipate that just as many or more will participate next year. Through this experience, students gain considerable appreciation for the principles of science, and science based management, such as what the Water District conducts.

### **Science notebooks**

Organization and recording observations are key components of science education. The proposed project will provide simple yet sturdy science notebooks for the participating 1<sup>st</sup> – 3<sup>rd</sup> grade students. These journals serve as a place for students to record their hypotheses and data from various experiments, to draw diagrams and write new vocabulary. These will be made available for teachers to use year round in all areas of science. Journals will be stamped with recognition to the SLVWD for providing them (photo at right).

A grey rectangular box containing text that reads: "This journal was paid for by a grant from the San Lorenzo Valley Water District's Education Grant Program. SLVE thanks them!"

### **Timelines and Milestones**

- September 2016: Science Enrichment Classes begin for grades 2 and 3. Science notebooks distributed.
- January 2017: Science Enrichment Classes completed for grades 2 and 3.
- February 2017: Science Enrichment Classes begin for kindergarten and grade 1.
- February 2017: San Lorenzo Valley Science Fair
- June 2017: Science Enrichment Classes completed for kindergarten and grade 1.
- June 2017: Final report submitted to San Lorenzo Valley Water District

### **Monitoring Program**

The monitoring program will be structured to track the success metrics for each of the project objectives.

- The number of students receiving Water Science education will be tracked
- Brief summaries of the water related lessons will be compiled
- The number of Science Fair projects and volunteers will be tracked
- The number of students receiving Science Notebooks will be tracked

### **Relationship to the Education Program**

This project directly advances the mission of the Education Grant Program by empowering students with the basic understanding of what water is, how it moves through the environment, and how it is managed to provide for environmental health and human benefit.

The project will also help build a generation of students in the San Lorenzo Valley with science literacy. This, especially when taught in the context of water, will help them appreciate as they grow older the reasons for water conservation, erosion control, habitat preservation and other science based actions that citizens and water managers take to understand the San Lorenzo River watershed and improve its environmental health.

Kids love science. When asked 'what did you do at school today', we expect the students will be good teachers of their parents, too.

### **Matching Funds**

The total cost of the K-3 Science Enrichment Program is approximately \$15,000. The Bobcat Club fundraising will match the proposed grant several times over to reach this total.

## Water and Environmental Awareness through Science Literacy: K-3 Science Enrichment at San Lorenzo Valley Elementary School

### *Project Budget*

| <b>Item</b>                      | <b>Cost per unit</b>                           | <b>Quantity</b> | <b>Total</b>     |
|----------------------------------|--|-----------------|------------------|
| <b>Water Science Lessons</b>     | <b>\$25.00</b>                                 | <b>56 hours</b> | <b>\$1400.00</b> |
| <b>Science Journals</b>          | <b>\$2.00</b>                                  | <b>300</b>      | <b>\$600.00</b>  |
| <b>Science Fair Coordination</b> | <b>Stipend, based on 20 hours at \$25/hour</b> |                 | <b>\$500.00</b>  |
|                                  |  | <b>TOTAL</b>    | <b>\$2500.00</b> |



## **Application Narrative**

Please accept this Classic Watershed Grant application on behalf of the Boulder Creek Elementary Parents Club, for the benefit of the fifth grade students at Boulder Creek Elementary located at 400 West Lomond Street, Boulder Creek, CA 95006. This application has been completed by Nicole Berridge, Boulder Creek Elementary Parents Club Member and fifth grade parent. Please contact her by her cellular phone 831-331-3431, by email [nicole.berridge@gmail.com](mailto:nicole.berridge@gmail.com) or by mail at 400 West Lomond Street, Boulder Creek, CA 95006, with any questions regarding this proposal.

The Boulder Creek Elementary Parents Club's "Fifth Graders to Science Camp" project is requesting \$2,500 to assist in lowering the costs to fifth grade families for students attending Camp Campbell Outdoor Science School (CCOSS) in Boulder Creek from May 24-27, 2016. Attendance at camp not only helps our staff and students meet the state science framework standards but also gives a unique opportunity for our students to better understand the San Lorenzo River watershed. This matches the mission of the SLVWD Education Grant Program which is to provide funding for educational projects that enhance the understanding of the San Lorenzo River watershed.

The Boulder Creek Elementary Parents Club works to support the students and families at BCE. Part of our organizational mission is to raise funds to supplement and enhance the student's academic enrichment. In addition, our mission is to work to strengthen our academic community, building on BCE's and SLVUSD's strong foundation. The primary goal of the Boulder Creek Elementary Parents Club in this specific project is to bring costs to families down enough so that all kids can afford to attend science camp with their classmates and teachers this year.

Environmental education at Camp Campbell Outdoor Science School (CCOSS) is an extension of classroom curriculum which has been taking place throughout the school year. The overall program goals and objectives for CCOSS are:

- Enhance concepts learned in the classroom
- Develop an understanding and appreciation of the functioning ecosystems
- Develop an understanding of the interdependence between humans and the environment
- Provide a quality experiential learning adventure in an outdoor setting
- Develop respect for self, others, and the environment
- Increase students' sense of self-worth through successful learning

They hope to achieve these goals through the exploration of the following core concepts:

- Adaptation
- Interdependence
- Cycles/Changes
- Community
- Ecological Responsibility
- Conservation

They will also achieve these goals and objectives through investigating functioning ecosystems such as:

- Riparian and lotic aspects of the San Lorenzo River, and the unique characteristics of the redwood forest, mixed evergreen forest, chaparral and meadow communities.
- Experiential strategies and activities like observation, measurement, sampling, sensory experience and interpretation, and comparative investigations.
- Fundamental ecology and resource management concepts in ever field study.

The staff at CCOSS will utilize a variety of teaching techniques including the following:

- Each field group participates in a daylong hike, approximately 3-5 miles round trip, traveling through several eco-communities.
- Students experience a night hike and astronomy study that emphasizes nocturnal animal life and nighttime sensory awareness.
- Students participate in a campfire where each cabin group presents a skit about concepts learned during the week.

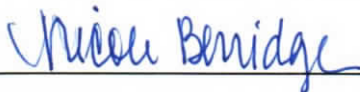
Success will be measured by the number of students participating in camp. Last year, the BCE Parents Club was able to offset costs for each student by \$50. We have the opportunity this year to increase the number of days that students will attend camp which in turn increases the cost per student. We have raised funds through concessions sales at events and family dinner

nights where we partner with local restaurants and receive a portion of their proceeds for an evening. We are hoping to help make camp attendance a reality for all fifth grade students.

While I am not a grant writer, I am a concerned parent that is actively involved with Boulder Creek Elementary Parents Club. While I, along with other involved parents and staff are working toward this same goal, three Boulder Creek Elementary staff members are at the heart of this effort: Dana Thomsen, Kim Peterson, and Laurie Conrad. They are our dedicated fifth grade teachers and will be accompanying our students at Camp Campbell Outdoor Science Camp.

Students will be attending camp from May 24-27, 2016. We will be completing a final project report after the students return from camp and before the school year ends on Thursday, June 9. We would like to have the report completed and submitted by June 6, 2016.

This grant proposal is respectfully submitted by:



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Nicole Berridge, member of BCE Parents Club on March 11, 2016.

## Budget Summary

### Expenses

\$260 per student to attend Camp Campbell Outdoor Science School

X 74 students

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**\$19,240**

### Income

**\$1,282** earned through BBQ and baked goods at 2015 BCE Open House

**\$ 874** earned at Family Dinner Night and Karaoke at Boulder Creek Pizza

**\$ 668** earned through pizza and baked goods at BCE Family Game Night

**\$ 371** earned through baked goods at BCE Family Movie Night

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**\$3,195** estimated fundraising total to date

**\$ 500** donated during events, these funds will be used for scholarship

**\$1,539** earned through volunteering at the 2015 Redwood Mountain Faire

**+\$2,500** from Classic Watershed Grant

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**\$7,734 estimated total income to offset expenses**

All income will be used to directly offset expenses for students. Families will pay the balance of camp cost or request a scholarship. The \$450 for teachers (\$150 each) will come out of another fund.

## Family Science Night at San Lorenzo Valley Elementary School

Jessica Curcio, Science Teacher  
c/o San Lorenzo Valley Elementary School  
7155 Highway 9, Felton, CA 95018  
831-335-4475  
[jcurcio@slvUSD.org](mailto:jcurcio@slvUSD.org)

**Funding amount requested: \$2500**

### Summary

This project will support a Family Science Night for all San Lorenzo Valley Elementary School families. This educational experience will benefit students, as well as their parents and siblings, in an engaging and fun event where they would learn about science, and particularly science related to water and watersheds.

It will:

- Purchase a “Family Science Night” package from the Children’s Discovery Museum of San Jose
- Support 2 coordinators for the event
- Purchase supplies for the construction of two “stream tables”
- Purchase consumable supplies for a variety of activities that night

### Need

An evening of families learning scientific principles together with hands-on activities is an excellent way to support the science that is already going on in the classroom. It is a way to teach parents and students alike in an atmosphere where learning is fun. Teachers at SLVE talk about how much they would like to have family education nights every year, in math, in reading, in science. Lack of funding is always what stands in the way.

Family Science Night would leverage the investment made by the water district in the K-3 Science Enrichment Program at SLVE (described in a separate proposal) by bringing the community together in a festival setting that creates a learning bridge between the classroom and family.

Watershed stewardship and water conservation are rooted in science and engineering. Citizens with greater science literacy are better able to appreciate – and more likely to follow – guidance given by District professionals. When citizens are asked to change their behavior, whether that means turning off the tap while they brush their teeth, or preventing erosion in the watershed, they often ask why. Without an appreciation for science, people often doubt the experts charged with managing our resources, especially when those experts ask them to do something

inconvenient or less fun than what they had in mind. But with an understanding of the fundamentals of physics and earth science, and an appreciation of the scientific method, people are more likely to understand the rationale behind conserving resources or reducing pollution and act accordingly.

### **Project Goal and Measures of Success**

This project aims to strengthen our community's science literacy with a focus on water and watersheds. The key objectives are to:

- Provide SLVE families with a "Family Science Night" by the Children's Discovery Museum  
*Success metric: tally of parents and students in attendance*

We estimate that 200 people will attend the event.

- Dedicate at least three activity stations to water resource science. These stations would include activities related to:
  - the ecology of our local watershed,
  - water testing and treatment,
  - conservation, erosion, or pollution.

*Success metric: tally of water resource related activity stations*

### **Qualifications, Leadership and Key Participants**

Jessica Curcio teaches 4<sup>th</sup>, 5<sup>th</sup>, and 6<sup>th</sup> grade science at San Lorenzo Valley Elementary and Middle Schools. Hilde Largay teaches Kindergarten – 3<sup>rd</sup> grade science enrichment at San Lorenzo Valley Elementary.

Ms. Curcio and Ms. Largay each have over 10 years of experience as educators, and have coordinated many similar events. Together, they will coordinate the evening.

The Children's Discovery Museum of San Jose is a 25-year old institution with a mission to inspire creativity, curiosity and lifelong learning. In addition to operating the museum itself, the museum routinely delivers interactive science-based learning programs at school campuses. "Family Science Night" is a special program targeted towards the whole family. More information is available here:

<https://www.cdm.org/learn-create/for-teachers-community-groups/family-science-nights-at-schools/>

### **Scope of Work**

#### **Site Preparation**

Ms. Curcio and Ms. Largay will work with fellow students, teachers, and administrators to prepare the community and the site. Activities include: advertising through classroom

announcements and the Principal's electronic newsletter, reserving and preparing the room, and purchasing supplies.

### **Coordination with the Museum and Volunteers**

Ms. Curcio and Ms. Largay will contract with the Science Night program. Activity stations will be selected from a menu of options to ensure a rich set of activities. To the extent feasible, we will choose activity stations that pertain to the physics, chemistry and biology of water and watersheds. The Children's Discovery Museum will deliver their program, which involves bringing 10 activity stations to the school. Ms. Curcio and Ms. Largay will recruit 12 volunteers from among parents, teachers and alumni. Museum staff will train volunteers to operate and engage families at each station. Museum staff will oversee the operations of the various stations. Ms. Curcio and Ms. Largay will welcome and orient families. All hands will help break down the event.

### **Additional exhibits focused on water resource science**

In addition to the Children's Discovery Museum activities, we will provide at least 3 stations related to water resource science. These stations will include activities related to the ecology of our local watershed, water testing and treatment, conservation, erosion, or pollution.

- One station will be headed up by the Coastal Watershed Council, possibly by their "Watershed Ranger" program.
- One station will be "stream tables", which will give students an opportunity to play with concepts of erosion and sedimentation, and ways to prevent it. Included in this proposal is funding for materials to build these. These will then be available for future learning experiences.
- One station will display native watershed creatures, such as lizards, snakes, salamanders, trout and banana slugs. The creatures will be humanely collected, safely kept for a short period, and then returned to their hatchery (trout) or habitats (all others). This station will depend on the weather and availability of animals, and will be replaced with another station if conditions warrant (such as the weather being too hot). All California Department of Fish and Wildlife regulations will be followed.
- We hope that the Water District will join us and provide an additional station for learning about the Water District, our watersheds and water conservation.

Ms. Curcio and Ms. Largay will plan the water related stations, purchase necessary materials, and coordinate with the Coastal Watershed Council for the event.

### **Press Coverage**

Ms. Curcio and Ms. Largay will invite the Press-Banner to cover the event.

### **Timelines and Milestones**

- June/July 2016, or as soon as we have secured funding: Set a date and make a reservation with the Children's Discovery Museum
- September 2016: Coordinate building of the stream tables



- Late Fall 2016 or Spring 2017: Family Science Night
- June 2017: Final report submitted to San Lorenzo Valley Water District

### **Monitoring Program**

*Success metric: tally of parents and students in attendance*

Ms. Largay and Ms. Curcio will tally parents and students in attendance.

*Success metric: tally of water resource related activity stations*

Ms. Largay and Ms. Curcio will provide a list of the stations, including a description and photographs of the water related activities.

### **Relationship to the Education Program**

This project directly advances the mission of the Education Grant Program by providing families a fun context for learning some of the science of what water is, how it moves through the environment, and how it is managed to provide for environmental health and human benefit.

### **Matching Contributions**

In kind matching contributions for this project are estimated at \$2020.

The San Lorenzo Valley Unified School District, through the San Lorenzo Valley Elementary School campus, will provide in-kind match to this funding request. The room and tables for the day are valued at \$500. School staff effort in publicizing, setting up and cleaning up after the program is estimated at \$400.

Twelve volunteers are anticipated to provide four hours of work on the night of the event. At \$15/hour, this contribution is valued at \$720.

The Coastal Watershed Council is anticipated to provide staffing and preparation effort for their exhibit, with an estimated value of \$400.

## Family Science Night at San Lorenzo Valley Elementary School

### *Project Budget*

| <b>Item</b>  | <b>Cost</b>      |
|--|------------------|
| <b>Family Science Night package from the Children's Discovery Museum of San Jose</b> | <b>\$1000.00</b> |
| <b>Coordinator Stipends</b>  | <b>\$700.00</b>  |
| <b>Supplies for 2 stream tables</b>  | <b>\$400.00</b>  |
| <b>Consumables for the water related activity stations</b>                           | <b>\$400.00</b>  |
| <b>TOTAL</b>   | <b>\$2500.00</b> |

Coastal Watershed Council Proposal  
2016 Watershed Education Grant Program  
San Lorenzo Valley Water District  
Submitted March 11, 2016



**1. Name of Individual(s)/Organization Submitting Proposal: Provide the full and correct name of the individual(s)/organization that will receive the grant and be responsible for the project.**

Mollie Behn, Education Coordinator, Coastal Watershed Council (CWC)  
Greg Pepping, Executive Director, Coastal Watershed Council (CWC)

**2. Name, Address, Telephone Number(s) and Email Address of Contact Person: Provide the name, address, telephone number(s) and email address of one (1) contact individual who carries the proposal/project responsibilities.**

Mollie Behn, 345 Lake Ave., Suite F, Santa Cruz, CA 95062, (831) 464-9200,  
[mbehn@coastal-watershed.org](mailto:mbehn@coastal-watershed.org):

**3. Title of Project: Provide a descriptive title of your project.** Watershed Rangers

**4. Amount of Funds Requested: Identify the total amount of San Lorenzo Valley Water District Education Grant Program funds you are requesting for your project.**

\$3,000 (includes \$500 public outreach component)

**5. Briefly describe and summarize your project.**

Watershed Rangers connects, inspires and empowers San Lorenzo Valley middle school students in the hands-on exploration of the San Lorenzo River watershed and activities that benefit the watershed's environmental health. Using the scientific method, inquiry and analysis students explore the watershed and use tools and technologies to measure environmental parameters. Students learn the importance of the resources the San Lorenzo River watershed provides, including critical habitat and drinking water supply. What makes this environmental education program unique is not only hands-on science experience, but also the emphasis on leadership development. Through Watershed Rangers students discover how each person has their own leadership style and strengths. Students develop their own leadership skills through team-building exercises, mentoring of younger students and community service learning projects that benefit the health of the San Lorenzo River watershed. Watershed Rangers brings environmental education out of the classroom, into the natural world and into communities.

**6. Briefly describe why this project is needed and/or what specific problems your project will address.**

While today's youth understand the intricacies of an iPad, they may not understand the intricacies of the natural world, how they're connected to nature or how healthy environments contribute to a community's well-being, resilience and vitality. Through participating in the Watershed Rangers program, students will become highly engaged in watershed education, develop an increased awareness of issues affecting local watersheds and will generate a direct, positive impact on the San Lorenzo River watershed by putting their newly developed skills to action and hosting a community service day in the watershed.

**COASTAL WATERSHED COUNCIL**  
345 Lake Avenue, Suite F, Santa Cruz, CA 95062 · (831) 464-9200  
[www.coastal-watershed.org](http://www.coastal-watershed.org)

Currently, San Lorenzo Valley Middle School students receive some watershed education programming in the classroom from the Coastal Watershed Council, but are missing the opportunity to involve their community and take direct action. By building upon the classroom experience, San Lorenzo Valley Water District will allow students to enhance their understanding of watershed issues and develop the leadership skills necessary to engage the San Lorenzo Valley community in the preservation and protection of the San Lorenzo River watershed.

**7. Identify the overall goal(s) and primary objective(s) of your project/program. Objectives are the “real world” things you will do as a means of achieving your goals.**

*Goal:* The goal of the Watershed Rangers program is to connect, inspire and empower San Lorenzo Valley youth to explore and protect the San Lorenzo River watershed through meaningful hands-on learning and action.

*Objectives:*

- CWC staff will engage 15 students in four hands-on learning and leadership experiences after-school in the 2016-17 academic school year.
- Following the completion of the after-school program and within the 2016-17 academic year, the 15 students will practice new leadership skills by engaging family, friends and the San Lorenzo Valley community to participate in one student-led community service day to benefit the health of the San Lorenzo Watershed.

**8. Describe how you will demonstrate achievement of the stated goal(s) and proposed objective(s).**

CWC staff will measure and report on the number of students participating in the program, the number of community volunteers recruited for the student-led community service day and the number of student activities that enhance awareness of watershed issues, connections to the San Lorenzo River watershed, science skills and leadership development. In addition to these quantitative assessments, CWC staff will also document observed changes in students’ attitudes and behaviors in relation to the San Lorenzo River watershed and their own community throughout the program. Watershed Rangers activities are regarded as key investments working towards sustainable short-, middle- and long-term improvements in the natural environment of the San Lorenzo River Watershed.

**9. Describe your qualifications to complete the grant proposal.**

The Coastal Watershed Council (CWC), a 501(c)3 nonprofit, was formed in 1995 in response to the declining health of watersheds connected to the Monterey Bay. Over the past 20 years, CWC has educated thousands of students and trained thousands of volunteers to protect the natural resources along California’s Central Coast. CWC has built a strong relationship with the San Lorenzo Valley School District by collaborating with teachers, presenting at school assemblies and working with student interns to implement community engagement activities.

CWC Education Coordinator Mollie Behn manages and implements the education programs for Santa Cruz County schools focusing on watersheds, climate change, and sustainable practices. Mollie’s experience previous to CWC includes serving as a program manager in Seattle, WA for a forest restoration and service learning education program inspiring stewardship through hands-on experiences and collaborated on inclusive outreach for the Green Seattle Partnership, a city-wide effort to restore Seattle’s urban forests. As an environmental educator at North Cascades Institute, Mollie led K-12 grade students in hands-on exploration and investigation of public lands. For seven years, Mollie worked for the National Park Service in various capacities including Interpretive Park Ranger at Acadia and Sequoia National Parks; resource management at Yellowstone National Park and

research and development for nation-wide interpretation, education and youth programs in the Washington DC headquarters.

**10. Identify the key participants and leadership of your proposed project. If you are a group or organization, identify the stated purpose of your group or organization.**

The mission of the Coastal Watershed Council (CWC) is to preserve and protect coastal watersheds through community stewardship, education and monitoring. Watershed Rangers project involves all three of these program areas as through education, students get hands-on experience with water quality monitoring and will develop the leadership skills needed to take beneficial actions as stewards for the San Lorenzo River watershed. The project will be led by CWC Education Coordinator Mollie Behn and will involve collaboration with teachers at San Lorenzo Valley Middle School. In the current 2015-16 academic year, Mollie is working with all 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> grade science teachers at San Lorenzo Valley Middle School to engage students in lessons about watershed dynamics, endangered and invasive species and water quality monitoring.

Mollie will build upon existing relationships with teachers and school administration (who have indicated excitement about this grant proposal and potential new program) to enroll students in the Watershed Rangers after-school program, identify educational activities that build upon classroom learning and collaborate with the SLV High School Watershed Academy teachers to facilitate learning experiences that prepare students to further engage in watershed activities in their continuing education. Mollie will also collaborate with SLV Elementary teachers to create opportunities for Watershed Rangers to share information with their younger peers and develop personal leadership skills through a proposed Family Science night (another application to the San Lorenzo Valley Water District's 2016 Watershed Education Grant Program).

**11. Briefly describe exactly what you are going to do and how you are going to accomplish your proposed project. Provide a clear statement of the work to be undertaken.**

Each learning experience of the four day Watershed Rangers after-school program will have a different focus. The topics covered will be:

1. **Watershed Connections:** Enhance students' appreciation and connection to the San Lorenzo River watershed through exploration of watershed resources including water supply, plants and animals and the mapping of the watershed.
2. **Investigate Impacts:** Raise students' science skills and environmental literacy levels so that students understand what impacts the health of a watershed through education of nonpoint source pollutants, storm water and hands-on practice of water quality monitoring using scientific equipment.
3. **Leadership:** Foster students' sense of leadership skills and how they can protect the watersheds by becoming community leaders through role playing activities and exploration of leadership styles. Middle school students will have the opportunity to mentor the younger elementary school students and practice leadership skills in action through a proposed Family Science night.
4. **Taking Action:** Students take action that generates a positive, direct impact on the environmental health of their watershed through planning and ultimately hosting a community service day.

Following these four experiences, students will then engage their families, friends and communities to participate in a student-led community service day that will directly benefit the health of the San Lorenzo River. The exact activity will be determined by the students with guidance from CWC and could involve a river clean up, water quality monitoring, stream bank improvements or habitat restoration as examples.

**12. Identify specific timelines & milestones for project completion and the final project report.**

- **September 2016-** CWC Education Coordinator Mollie Behn will coordinate with SLV Middle School to coordinate timing for the after-school program and teachers throughout the school district to develop curriculum activities.
- **October 2016-** Mollie and partner teachers will recruit and enroll students in program.
- **October 2016 – April 2017-** Mollie and partner teachers will lead four consecutive after-school activities and will plan, advertise and host a community service day.
- **May 2017 (or immediately following the program)-** Mollie will solicit feedback from partner teachers, evaluate program and complete reporting to San Lorenzo Valley Water District.

**13. Describe your proposed project monitoring program.**

Mollie will manage, lead and enact the Watershed Rangers program under the guidance of CWC Executive Director Greg Pepping. Mollie will lead evaluation activities including monitoring student and community enrollment, partner relationships and student learning (as described in Question #8).

**14. Briefly describe how your proposed project relates to and supports the Education Program Mission Statement.**

The Watershed Rangers project enhances student's understanding of the San Lorenzo River watershed through experiential learning. By analyzing and generating maps students will learn what a watershed is and how water moves through it; by identifying the flora and fauna of the San Lorenzo watershed and the environmental features that impact their survival, students will understand the challenges for survival, particularly as they pertain to threatened and endangered species; and by visiting Fall Creek and investigating sources of erosion students will discover one of the greatest sources of pollution for the San Lorenzo River watershed. Finally, students will practice their leadership skills by planning and implementing a community activity to share their watershed knowledge with the San Lorenzo Valley community.

**15. Identify any other source(s) of funding for your proposed project. Include any matching funds, materials, services, equipment, personnel and/or other resources.**

The Watershed Ranger program at San Lorenzo Valley Middle School will be an expansion of the work done in partnership with the City of Santa Cruz Watershed Education and Outreach. Through CWC's funding from the City of Santa Cruz we have been able to build partnerships with San Lorenzo Valley Middle School. Watershed Rangers is an opportunity for a unique investment from the San Lorenzo Valley Water District to incorporate enhanced learning, leadership development and community-service based projects into the classic environmental education model.

**16. Optional public outreach component: To be eligible for up to \$500.00 in additional funding, describe how you would publicize your project. What media would you use? How would you make it interesting to your audience?**

CWC requests \$500 in funding to publicize and host a student-led community service day at the completion of the Watershed Rangers program. Students will recruit family, friends and the community to participate in this day of hands-on action by creating posters that will be printed and hung throughout San Lorenzo Valley, promoted on social media and in the media. The funds will also be used in public outreach to provide a small budget for supplies needed for the event.

**San Lorenzo Valley Watershed Education and Outreach Services  
2016-17 Budget Narrative**



COASTAL-WATERSHED.ORG  
*Preserving and protecting  
our coastal watersheds*

| Personnel total by task  | Hours    | Rate (\$/hr)   | Cost               | SLVWD Budget      |
|--|----------|----------------|--------------------|-------------------|
| Task 1: Project oversight and financial management                 | 15       | 86             | \$1,204.00         | \$100.00          |
| Task 2: Coordinate w/ teachers and lesson planning                 | 46       | 62             | \$2,532.00         | \$300.00          |
| Task 3: Classroom and field instruction, including travel          | 410      | 62             | \$23,477.00        | \$1,925.00        |
| Task 4: Evaluation (elicit teacher feedback, summarize and report) | 19       | 62             | \$1,092.00         | \$100.00          |
| Personnel Subtotal:  | 490      |                | <b>\$28,305.00</b> | <b>\$2,425.00</b> |
| Direct expense:  | Quantity | Unit Cost (\$) | Cost               | SLVWD Budget      |
| Mileage  | 1694     | 0.54           | \$914.50           | \$75.00           |
| Advertising, Materials & Supplies                                  |          |                | \$940.00           | \$500.00          |
| Curriculum   |          |                | \$120.00           | \$0.00            |
| WQM Kits   |          |                | \$360.00           | \$0.00            |
| Direct Subtotal:   |          |                | <b>\$2,834.50</b>  | <b>\$575.00</b>   |
| <b>Watershed Education &amp; Outreach Services Total:</b>          |          |                | <b>\$31,139.50</b> | <b>\$3,000.00</b> |

Note: labor costs computed using aggregate average billing rate including payroll and indirect (overhead) costs.

This budget is for the entirety of CWC activities in the San Lorenzo Valley School District in the 2016-17 academic year. The portion of the budget not supported by the San Lorenzo Valley Water District will be covered by the City of Santa Cruz Watershed Education and Outreach program.

# FALL CREEK FISH LADDER & SALMONID CYCLE

## Educational Rail



### SLVWD EDUCATIONAL GRANT PROPOSAL - 2016

#### EDUCATIONAL OUTREACH TO WATERSHED RESIDENTS AND VISITORS TO THE AREA

#### Fall Creek Fish Ladders

SALMONID SENSITIVE HABITAT

San Lorenzo Valley Steelhead and Coho Habitat Restoration Project

### Helping nature

*Quote from San Lorenzo fisherman. One two three four five six seven eight nine ten eleven.*  
—NAME OF HISTORIC RESIDENT

Steelhead and coho salmon return to spawn in the streams where they were hatched. Smelling their way back, fighting the current and leaping waterfalls to reach the same stream where they were born. They can jump up to 4 feet high over the fish ladders, and on up waterfalls and eddies, often getting battered along the way. They die after mating and laying eggs, exhausted after succeeding to create the next generation of a well-connected feeding ecosystem.

Some salmon can reach up to 120 pounds as they head upstream to spawn. Some spend more time in the rivers; feeding on insects, and growing larger.

#### Salmonid Life Cycle

SPECIES IN THE SPOTLIGHT

### Coho salmon & steelhead

**Steelhead**  
*Oncorhynchus mykiss*

**Coho (or silver)**  
*Oncorhynchus kisutch*

The two salmon species in the San Lorenzo watershed—steelhead and coho—are of the genus *Oncorhynchus*. Genus is a Greek word which describes the bent and twisted jaw that salmon develop during spawning.

They lay their eggs in gravel nests called redd. They live and grow in streams, then gradually make their way to the ocean, transferring from freshwater to salt. They spend most of their adult lives at sea, often heading far offshore from our California coast and river mouths where they started. Eventually they return, smelling their way back, fighting the current and leaping waterfalls to reach the streams where they were born. Exhausted by the trip, they die after mating and laying eggs.

**Caption** TK ratum qui atenia cum que nones ant, sat utem eictotas

**FISH LADDERS CAPTION INFO TK**  
Sai dolupta perenum quos estrumet laci volent. Cum simus noscin como lupta. Cum dita conse qua ditecu tibur. Cum sit essus intetur. Nelaam labo an. Cum ut molores ratum sunt. Cum qui atenia cum que nones ant, sat utem eictotas venim, sa. Cum em. Nem a consequ ostrunt utem eictotas ab inulpa.

*Photo/Illustration by credit TK*

#### Taking a Closer Look

San Lorenzo River watershed once saw millions of salmon returning each year. Now, only 1 percent of the wild salmon come back to this beautiful place. But the river is a particularly vital area for salmon recovery for both coho and steelhead, which are designated as threatened and endangered by the ESA.

The trip of the salmon upstream as adults and downstream as smolts has become increasingly challenging, with fewer making it through each year.

Intake and dams lower river levels increase temperatures and threaten fish passage. Logging muddies streams with sediment, and runoff from parking lots, housing, and roads pollutes the water. Additional threats come from overharvest by fishing, farm-raised salmon, and hatchery-raised salmon that decrease genetic diversity and bring disease to wild populations.

#### KEY ACTIONS FOR RETURN OF SALMON POPULATIONS:

- Protect our watershed, wildlands, and roadless areas in our forests, which contain some of the best native plant and wildlife habitat in Central California.
- Keep big wood in streams to provide protection for juvenile fish.
- Remove small dams to restore a free-flowing and healthy migration and spawning corridor.
- Remove old logging roads, and limit future logging to restore healthy ecosystems and forests.
- Discourage breaching of the levee which increases temperature and salt in salmon habitat.
- Discourage run-off and "non-point source" pollution.
- Reform hatcheries to a higher ecological standard.

**Santa Cruz County**  
SAN LORENZO WATERSHED MAP

**San Lorenzo Valley**  
**NOAA**  
**RESOURCE**

SOURCE: STRONGHOLD PROGRAM STRATEGIES ARE LISTED AS FEDERAL ENDANGERED OR THREATENED LISTINGS FOR DISTINCT SUBPOPULATIONS • NATURAL RESOURCE STRATEGIES GRABBY RECOVER, BUT DECLINING RAPIDLY, ESPECIALLY IN THE PACIFIC NORTHWEST AND CALIFORNIA. • WATERSHED RESOURCES: WATERSHEDS IN CENTRAL CALIFORNIA AND THE BERING SEA HAVE BEEN HOME TO SALMON FOR MILLIONS OF YEARS. • WATERSHED RESOURCES: WATERSHEDS IN CENTRAL CALIFORNIA AND THE BERING SEA HAVE BEEN HOME TO SALMON FOR MILLIONS OF YEARS. • WATERSHED RESOURCES: WATERSHEDS IN CENTRAL CALIFORNIA AND THE BERING SEA HAVE BEEN HOME TO SALMON FOR MILLIONS OF YEARS. • WATERSHED RESOURCES: WATERSHEDS IN CENTRAL CALIFORNIA AND THE BERING SEA HAVE BEEN HOME TO SALMON FOR MILLIONS OF YEARS.

BY NINA MOORE



**FALL CREEK FISH LADDER & SALMONID CYCLE**  
*E d u c a t i o n a l R a i l S i g n a g e*  
**2016 SLVWD EDUCATIONAL GRANT PROPOSAL**

**1. Full name of the individual that will receive the grant and be responsible for the project.**

Nina Moore

**2. Name, Address, Telephone Number(s) and Email Address of Contact Person:**

Nina Moore | 252 Farmer Street, Felton, CA 95018 | 831.335.4956 | moore.nina@gmail.com

**3. Title of Project:**

FALL CREEK FISH LADDER & SALMONID CYCLE Educational Rail:

Text and illustrations of the salmonid life cycle with pictures, map and explanation of how the Fish Ladders on Fall Creek work, why they are needed, and a mention of SLVWD role, with other agencies, in repairing the structures.

**4. Amount of Funds Requested:**

\$2,500.00 for design concept, writing, editing, illustrations, and photography. An additional \$500 for publicity.

**5. Briefly describe and summarize your project.**

Creation of a 4-color, 12x28 outdoor, weatherproof sign. To be printed and mounted and installed onto the rail of the bridge overlooking the Fall Creek Fish Ladders.

This will be a long-lasting, educational sign, similar to the ones in our State Parks, and will be attached to the rail of a bridge as a permanent visual guide.

**6. Briefly describe why this project is needed and/or what specific problems your project will address.**

Numerous adults and school children cross the bridge every day, yet don't know much about the fish ladders — how they work, and why they are important. The location is near one of the entrances to Fall Creek State Park, and along the school route to San Lorenzo High School, Middle School, and primary schools. An educational sign would be a positive way to educate hundreds of people who aren't aware of the important relationship between the fish, the creek, and our human impact. It would also encourage people to care more about, and become stewards of Fall Creek and our watershed. Perhaps even inspire people not to litter over the bridge.

**7. Goals and primary objectives of project.**

I will conceptualize and design the layout, and write, proofread, factcheck, and edit, in addition to creating illustrations and taking photography. I have researched the mediums to be used and various possible companies to create the fabrication, and how to attach it. It will need to be weatherproof, fade-proof, and also discourage vandalism.

**8. Achievement of the stated goals and proposed objectives.**

The sign will be designed, proofread, fact-checked, approved, then printed when finished, and attached to the rail on the bridge. I will illustrate the complex drawings to be simple, eye-appealing, and easy to understand.

**9. Describe your qualifications to complete the grant proposal.**

I've designed & illustrated educational display panels, booklets, advertising, and brochures for Kennedy/Jenks, and designed educational outdoor signage and kiosks for San Francisco Zoo and Oakland Zoo, in addition to educational & interactive displays at Chabot Space & Science Center, among other parks and museums while working at Gyroscope Inc, and Academy Studios. In addition to designing articles and promotional material while working at Sierra magazine, I've also designed educational booklets on endangered species, and a pocket guide of endangered species for fisherman and hunters.

**FALL CREEK FISH LADDER & SALMONID CYCLE**  
*E d u c a t i o n a l R a i l S i g n a g e*  
**2016 SLVWD EDUCATIONAL GRANT PROPOSAL (continued)**

**10. Identify the key participants and leadership of your proposed project.**

I am the primary participant. And I will choose the best company to fabricate the sign.

**11. Accomplishing the proposed project. Statement of the work to be undertaken.**

I will illustrate complex drawings of the Salmonid life cycle to be simple, eye-appealing, and easy to understand. Photos will be used with text and callouts to explain how the fish ladders work. A map of the SLV watershed will show the area as it compares to The Santa Cruz county watershed. All text will be written in a way the adults and high school teens can easily understand. This will be a permanent visual aid which will last for 30-50 years. And could be reprinted and manufactured if necessary.

**12. Identify specific timelines & milestones for project completion and the final project report.**

All design, research, writing, editing, fact-checking, illustration, production, and proofing will be done during the months of April and May. To be finalized in June-July, and printed, fabricated, manufactured in August, then installed and mounted in September 2016

**13. Describe your proposed project monitoring program.**

I would fact-check all informational data and go over information with fish biologist Don Alley, and/or NOAA fisheries to ensure content is correct.

**14. Briefly describe how your proposed project relates to and supports the Education Program Mission Statement.**

This sign will illustrate the relationship of salmonids, the fish ladders, and the environment of Fall Creek as part of the San Lorenzo watershed. Whereby enhancing the understanding of human impact of watershed stewardship and environmental health of it's water customers. It will show SLVWD connecting and communicating in a positive way with SLV Schools and the Fall Creek community. And by including the logos of NOAA, The RCD, and the VWC, and a blurb about how the SLVWD cooperates with other agencies, it will inspire to raise awareness of water conservation for the fish, and watershed protection and stewardship among SLVWD, residents and visitors to Fall Creek, and the San Lorenzo Valley watershed.

**15. Identify any other source(s) of funding for your proposed project.**

No other sources of funds. All graphics and design will be created by myself.

**16. Optional public outreach component: Eligibility for \$500.00 additional funding. Publicizing Strategy & media.**

This educational sign will be excellent PR for SLVWD, and provide positive publicity for environmental stewardship in San Lorenzo Valley. It will be a permanent visual reminder of the Educational outreach to watershed residents and visitors to the area to last for decades.

Publicity would be a ribbon-cutting photo-op & article in the Press Banner, HillTromper, and SLVWD homepage, in addition to posting with photos taken and shared with blurbs and kudos through numerous colleagues such as Coastal Watershed Council, Sierra Club, Save Our Shores, The Natural History Museum, SLV High School, SLV Schoolgrown Aquaponics, Valley Women's Club, Felton Library Friends, and The SLV Chamber of Commerce, San Lorenzo Valley Museum, and SLV news via social media: facebook, twitter, Google Plus, Instagram, Next-door, Meetup hiking & environmental groups, and word of mouth networking. A possible blurb in Sierra Magazine is an option. Follow-up interviews could include neighbors, hikers, rangers, and school children.

**FALL CREEK FISH LADDER & SALMONID CYCLE**  
*E d u c a t i o n a l R a i l S i g n a g e*

**2016 SLVWD EDUCATIONAL GRANT PROPOSAL (budget)**

**DATE**

March 11, 2016

**TO**

Jen Michelsen  
Environmental Programs Manager  
San Lorenzo Valley Water District  
13060 Hwy 9  
Boulder Creek, CA 95006

**PROJECT TITLE:** SLVWD Educational Grant - Budget Summary

**PROJECT DESCRIPTION:** FALL CREEK FISH LADDER & SALMONID CYCLE Educational Rail Signage

**ROUGH ESTIMATE OF BUDGET & HOURS**

| DESCRIPTION                                    | HOURS | UNIT PRICE   | COST               |
|--|-------|--------------|--------------------|
| research & writing                             | 4     | \$ 50.00     | \$ 200.00          |
| design, typography, layout & production        | 32    | \$ 60.00     | \$ 1,920.00        |
| writing, editing, fact-checking, proofreading  | 3     | \$ 46.80     | \$ 140.40          |
| illustration                                   | 3     | \$ 80.00     | \$ 240.00          |
|  |       |              |                    |
| promotional photography                        | 2     | \$ 50.00     | \$ 100.00          |
| promotional, networking, interviewing, writing | 8     | \$ 50.00     | \$ 400.00          |
| promotional social media                       | 2-4   |              |                    |
|  |       | Subtotal     | \$ 3,000.40        |
|  |       |              | \$ 0.00            |
|  |       | <b>Total</b> | <b>\$ 3,000.40</b> |



nina moore

## MEMO

TO: Board of Directors

FROM: District Manager

SUBJECT: Discussion and Possible Action Regarding Upcoming Association of California Water Agencies Spring Conference

DATE: April 7, 2016

### RECOMMENDATION:

It is recommended that the Board of Directors review this memo, review attachments and provide direction as deemed appropriate.

### BACKGROUND:

As a member agency of ACWA, it is important for the District to utilize the many services available. ACWA provides many opportunities to learn and engage in the water community. This year the ACWA Spring Conference and Exhibition is May 3<sup>rd</sup> through the 6<sup>th</sup>, in Monterey. The online registration deadline is April 8<sup>th</sup>, the day after our regular Board Meeting on April 7<sup>th</sup>.

The full conference and meal package is \$695 per registrant. Full conference registration only is \$535. Single day registration is also available for \$300.

District cost for Board attendance would be \$3,475 if all five Directors chose full conference and meal package. The District Manager is planning to attend the full conference and both luncheons.

### CEQA REQUIREMENTS:

None.

### STRATEGIC PLAN:

Element 9.2 – Board Development

### FISCAL IMPACT:

Up to \$3,475, depending on Board participation.

Department: 01-100 – Administration

Account: 5630, Training, Conferences & Meetings

Budgeted: \$5,000

Expended as of 04/01/2016: \$8,737

Available: (\$3,737)

Department: 01-100 – Administration  
Account: 5200, Contract/Professional Services  
Budgeted: \$112,550  
Expended as of 04/01/2016: \$87,489  
Available: \$25,061



**ACWA 2016 SPRING  
CONFERENCE & EXHIBITION**

**2016**

**IT'S**

**G**



**TIME**

**MAY 3-6, 2016  
MONTEREY, CA**



Agenda 4-7-16  
Item 42c

# ACWA 2016 SPRING CONFERENCE & EXHIBITION

MAY 3-6, 2016  
MONTEREY, CA

# 2016

IT'S  
G  
TIME



Greetings!

I would like to cordially invite you to attend ACWA's 2016 Spring Conference & Exhibition, **"2016: It's Go Time"** May 3-6, at the Monterey Marriott and Portola Hotel in Monterey, California.

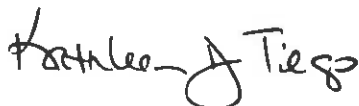
California Water Agencies are on the front lines in addressing the state's emergency conservation regulation that will extend mandatory urban conservation through October 2016. Agencies are sending the conservation message to their customers through an array of programs and activities to reduce water use, stretch existing supplies and protect remaining water reserves, while ACWA is taking the lead role in developing this message and reaching all areas of the state.

Along with unprecedented drought conditions, increasing regulatory, environmental, and economic pressures are pushing water agencies across California to work to find new ways to provide reliable and affordable service to their customers. During conference week you will be able to choose from over 80 meeting and program sessions to help you stay informed and updated on a variety of these local, statewide and federal water issues and policies – important and critical information that you can take back to your agencies and organizations. There will be legal, finance, energy, and drinking water operator contact hour programs scheduled for professionals seeking continuing education credits. And, as always, there will be multiple opportunities to network and connect with California's water community leaders. If it has been a few years since you've attended or if you've never been to an ACWA conference, we encourage you and your colleagues to join the conversations!

The ACWA Exhibit Hall will be filled with vendors whose products and services may offer you just the right solution. From legal, financial and public relations needs, along with software solutions, construction, design and engineering, don't miss your chance to see what is new in the water industry.

Visit [www.acwa.com](http://www.acwa.com) for more information to come as conference program sessions and keynote speakers are confirmed.

I look forward to seeing you in Monterey!



Kathleen J. Tieg  
ACWA President

# THURSDAY DINNER AND ENTERTAINMENT

Thursday, May 5 | 7:00 – 9:00 PM



Live life in the fast lane and join your friends and colleagues for an evening with The RAT PACK! **The RAT PACK – Tribute Show** is the most realistic live recreation of your favorite RAT PACK members. You won't believe your eyes and ears as Frank Sinatra, Dean Martin and Sammy Davis, Jr. come to life in this nostalgic reunion concert.

Re-live the days of the Rat Pack with Las Vegas' most famous entertainers as they appeared live in the Sands Hotel Copa Room back in the early 1960's!

With a stellar cast of some of the finest performers in the business, The Rat Pack Tribute Show has been hailed as the next best thing to seeing the original Rat Pack themselves.

Nothing but class and cool... with the occasional poke at each other!

So, sit back, buckle in and take a ride down memory lane with The Rat Pack. *Ticket is required. Attire is casual.*



## ACWA CONFERENCE MOBILE GUIDE AVAILABLE IN APRIL



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and more on your  
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# STATEWIDE & REGIONAL ISSUES

Agenda: 4.7.16  
Item: 12c

## TOWN HALL

Thursday, May 5 | 2:00 – 3:15 PM

### *To Market We Go - Building a Better Water Market*

As historic drought has tightened its grip on California, ACWA has developed recommendations for enhancing the role of a voluntary water market, including improvements to the water transfers process. The recommendations are guiding ACWA's work at the State Capitol where the water market is one of the hot issues this year. The Environmental Defense Fund has developed recommendations and is sponsoring State legislation, and the Water Foundation is also sponsoring legislation in this area. Come hear where changes in state law are headed, and share your ideas on what the next steps should be to build consensus on a better California water market.

## STATEWIDE ISSUE FORUMS

Wednesday, May 4 | 10:00 – 11:30 AM

### *Go Time for the Delta Fix?*

The Administration's California WaterFix hit several milestones in 2015 to move the process forward. 2016 is viewed as a critical year to take the effort to the next level on the path to improving California's water supplies and the Sacramento-San Joaquin Delta's ecosystem. Will it finally be "go time" for the Delta fix after decades of study and process? This panel will highlight the latest details and views from water community stakeholders.

Wednesday, May 4 | 2:00 – 3:15 PM

### *State of the State's Water System*

With the rainy season behind us, come here from agency officials, water managers and others on the state of the State's water system in 2016.

Wednesday, May 4 | 3:30 – 4:45 PM

### *Groundwater Sustainability Agency Formation: How is it going?*

The Sustainable Groundwater Management Act (SGMA) requires formation of locally-controlled groundwater sustainability agencies (GSAs) by June 30, 2017 in all 127 high- and medium-priority groundwater basins. How is it going with just over a year to the deadline? Is there enough clarity on what entities can be a GSA? Are the Counties being brought in? How do non-governmental interests participate in governance? Are additional rules or resources needed?

Thursday, May 5 | 9:30 – 11:00 AM

### *Headwaters Health: Obstacles and Opportunities to Advance Forest Management*

Experts agree there is an urgent need to accelerate the pace and scale of forest management activities. From development of biomass energy markets and facilities to on-the-ground projects and watershed-based partnerships, this panel will explore current barriers and opportunities to restore forests to a more resilient condition.

## REGIONAL ISSUES

Wednesday, May 4 | 10:00 – 11:30 AM

### *Region 6 & 7 Joint Issue Forum*

#### *Water Scarcity: Can Agriculture Survive? How it Impacts You*

California's agriculture is changing. Drought conditions and mounting regulations are affecting how agriculture does business. Regions 6 & 7 are hosting a program that will highlight how a changing agricultural industry will impact the California lifestyle, including food prices, where food is grown and unemployment rates.

Wednesday, May 4 | 2:00 – 3:15 PM

### *Region 9 Program*

#### *Silver Strategies: The Graying of the Workforce and How to Plan for Generational Change*

Water agencies are facing challenges with escalating retirements, unplanned turnover and changing workforce demographics. In a thought provoking program hosted by Region 9 we will explore succession planning and managing the modern workforce in a not-to-miss session. Experienced industry professionals will explore foundational concepts for succession planning strategies, training and retaining high performing employees and attracting promising new employees. Come see how your organization stacks up, and get ready for the "silver tsunami!"

Thursday, May 5 | 2:00 – 3:15 PM

### *Region 3 Program*

#### *Drying and Dying: California Tree Mortality*

Four years of historic drought have made trees in many regions of California susceptible to infestation by native bark beetles. The United States Forest Service recently estimated that more than 22 million trees have already died in California due to the current conditions. Tree die-off is of such a scale that it significantly increased the risk of wildfires in many areas of the state. Several counties have declared local state of emergencies due to tree mortality. Region 3 will host a program that will highlight the affect the drought has on trees across California.

# EXHIBIT HALL



## WHERE

Portola Hotel Lobby, De Anza Foyer & Ballroom

## WHAT IS HAPPENING IN THE HALL...

- **Dedicated Exhibit Hall Hours**  
One-on-one time with vendors from around the United States whose products and services may offer you just the right solutions
- **Popular Tuesday Welcome Reception (5 – 6:30 PM)**  
Enjoy exhibitor sponsored appetizers while connecting with the water community.
- **Win a Conference Registration Package or CASH!**

## INTERESTED IN EXHIBITING?

Visit [www.acwa.com](http://www.acwa.com) for details.

## EXHIBITOR TECHNICAL PRESENTATIONS

Come check out new tools and services available for the California water community

Participate in EIGHT technical presentations on Wednesday and Thursday presented by ACWA Exhibitors.



# CONFERENCE PROGRAMS

Agenda: 4.7.16  
Item: 12c

Programs are subject to change without notice.

## Attorneys Programs

These programs are approved by the State Bar of California for attorneys to receive general M CLE credits.

**Wednesday, May 4 | 10:00–11:30 AM**

### *The California WaterFix Hearings: What's New on the Frontiers of California Water Law*

The California WaterFix hearings constitute the largest and most complex water right hearing in California's history. This panel will discuss the legal issues that have been raised during the hearing (which is scheduled to commence on April 7) and provide a preview of coming legal disputes that will likely occupy California's water debate for years, if not, decades to come.

**Wednesday, May 4 | 2:00 – 3:15 PM**

### *The View From The Foxhole: What Is Happening On The Ground Under And In Reaction To SGMA*

This program involves a discussion of how SGMA is being implemented in particular local circumstances and how water agencies and users are reacting to coming groundwater management.

**Thursday, May 5 | 9:30 – 11:00 AM**

### *CEQA and Tribal Consultation—Best Practices for Complying with AB 52's Significant New Requirements*

AB 52, a new provision of CEQA, requires water agencies, when acting as lead agencies, to enter into consultation with requesting tribes prior to the release of a negative declaration or an EIR. The objective of this presentation is to detail all features and requirements of AB 52 and discuss strategies and suggested best practices for preparing for, entering into, and concluding consultation—all while moving a CEQA document forward.

**Thursday, May 5 | 2:00 – 3:15 PM**

### *Stormwater Capture: Water Supply Threats and Opportunities*

The confluence of sustained drought, temporary curtailments, reductions in allocations, and more expensive water supplies with new, environmentally driven public storm drain system Clean Water Act NPDES permit (MS4 permit) requirements created new questions for water suppliers to grapple with. This panel will explain the applicable storm water capture and use mandates, assess the legal threats to water supply presented by the mandates, including issues related to water rights and allocations, and identify and explain potential opportunities to augment supply with captured storm water if agencies can surmount the legal hurdles to its beneficial use such as funding for necessary infrastructure.

## Aquatic Resources

### Subcommittee Program

**Wednesday, May 4 | 2:00 – 3:15 PM**

### *What Does the Science Say? Turning Research into Resource Management*

While everyone knows that science has an important role in developing critical environmental policies, the practical application of science in resource management decisions is rarely simple or clear. This panel will discuss one cutting-edge UC Davis study of salmonids in California that is evolving resource management decisions in the local area: from goals established by desktop studies to goals established by real world, in-the-field measurements of affected salmonids.

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## Communications

### Committee Program

**Wednesday, May 4 | 3:30 – 4:45 PM**

### *Getting the Message Right on Water Rates: A Communications Primer*

Water agencies in every region of the state are looking at rate increases or changes to their rate structures in response drought, infrastructure needs and other factors. Hear messaging strategies that have helped agencies roll out successful rate proposals, educate key audiences and build customer support.

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## Energy Committee Programs

These programs may qualify towards the Certified Energy Manager (CEM) continuing education credit.

**Wednesday, May 4 | 10:00 – 11:30 AM**

### *Peaking Your Interest?*

Driven by statewide greenhouse gas emissions reduction goals, increased amounts of renewable energy in the state's energy mix have caused an energy imbalance, with more supply available than demand for it during late afternoon periods. This imbalance is driving regulatory changes in the electricity sector. Learn about the underlying problem, new regulatory programs that are addressing the problem, and what your agency can do to manage your energy load.

Check the ACWA web site for updated conference information >> [www.acwa.com](http://www.acwa.com)

**Wednesday, May 4 | 3:30 – 4:45 PM**

***Funding Opportunities for Water Agencies in Energy***

Restructuring the electric utility grid to balance the state's energy load will require a number of actions on the part of the California Independent System Operator and the state's other regulatory agencies. Due to its energy use, the water sector is one target of energy-related funding programs. Learn about funding opportunities from the Department of Water Resources, California Energy Commission, and individual electric utilities that might benefit your agency.

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## Finance Programs

These programs may qualify towards CPA continuing education credits.

**Wednesday, May 4 | 10:00 – 11:30 AM**

***Alternative Financing Sources for Capital Projects***

Tumultuous changes in infrastructure needs from advancement of source diversification, regulatory requirements, and changing technology parallel changing funding sources available for water agencies. Hear from experts from financial institutions and granting agencies on alternatives available in today's credit market to fund your projects.

**Wednesday, May 4 | 3:30 – 4:45 PM**

***Exploring Utility Charge Affordability***

Considering utility charge affordability: As we continue to invest in our infrastructure, utility affordability is an issue worth investigating. What do rate agencies consider? What are the models that agencies are using for measuring this? Are there more robust models to consider than published EPA guidelines? What are agencies doing regarding low-income customers? What are the proposed Article 10 amendments regarding low-income programs and what might be their impact?

**Thursday, May 5 | 9:30 – 11:00 AM**

***Budget Base Rates and 218 Constraints***

Water agencies are charting in non-precedential time. First we have experienced the most severe drought in recorded history and the potential for recovery this year looks limited. Due to this, the State government has mandated a State-wide cut back of 25% of water use, with some agencies requiring a 32% cut back. These cut backs have been extended to October 2016 and many water professional believe they may become permanent. Second, we have seen ratepayers uniting against water rates through litigation and, in some instances, overturn certain rates and establishing a new standard associated with the development of water rates. There are several lawsuits currently in the court on this matter. Given the new scrutiny on utility rates, learn how Las

Virgenes MWD and East Valley WD have risen to these challenges by implementing water budget rates that both assist the agencies in meeting their respective water cut back and developing the nexus requirement of Prop 218 on their associated rates. This panel will discuss how they justify their tiered rates and how they educated their constituent on the benefits of a water budget rate structure.

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## Water Industry Trends Programs

These programs may qualify for attendees to receive drinking water operator certification credit approved by the State Water Resources Control Board.

**Wednesday, May 4 | 10:00 – 11:30 AM**

***Drinking Water Issues Update***

Learn more about a variety of recent legislative and regulatory developments related to drinking water, including implementation of California's Human Right to Water law, drinking water systems fees and more!

**Wednesday, May 4 | 2:00 – 3:15 PM**

***How to Get to Yes on Rates: A Primer for Water Board Members***

Restructuring water rates or even simply raising them can be a nightmare water agency directors. This session will feature water board members from around the state to share their experiences in getting approvals for needed rate structuring in their districts. A "must attend" for any district contemplating a future rate change.

**Thursday, May 5 | 9:30 – 11:00 AM**

***Water Conservation Drought Emergency Regulation and a Resiliency-Based Long-Term Policy***

The State Water Resources Control Board extended the drought emergency conservation regulation through October with limited adjustments to reflect climate, growth and development of some drought-resilient potable water supplies since 2013. The State Water Board also may consider further reductions to water suppliers' mandatory conservation standards or even rescinding the emergency regulation, depending on water supply conditions in March and April. Additionally, the State Water Board staff was directed to engage the Department of Water Resources in developing a proposed framework for enhanced urban water conservation, efficiency and resilience over the long-term. Water agencies have developed recommendations for such a resiliency-based policy that will help "make conservation a way of life" as advocated by the California Water Action Plan. Come hear the latest on what the State Water Board may do on the Drought Emergency Regulation, Brown Administration plans for the long-term framework, and the water agencies' policy proposal.



# SPONSORSHIP & AWARDS

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at 916-441-4545 for more  
information about sponsorship.*

\* Listed sponsors as of publication.

## ACWA Awards to be Presented During This Conference

In addition to education and networking opportunities, the ACWA conferences provide a forum to recognize individuals, public water agencies and companies that have made incredible and visible contributions to California's water community.

The Clair A. Hill Water Agency Award for Excellence and the ACWA Excellence in Water Leadership Award will be presented during the 2016 Spring Conference in Monterey.



**Sponsored by CH2M Hill, the Clair A. Hill Water Agency Award for Excellence** recognizes innovative programs by ACWA members in water resources management. Award recipients are selected for demonstrating creativity in addressing water industry issues, commitment to excellence, leadership in broad water-related issues, environmental sensitivity, fiscal responsibility. The winning agency has the honor of bestowing a \$5,000 scholarship on a deserving student.



**Sponsored by Black & Veatch Corporation, ACWA's Excellence in Water Leadership Award – Building a World of Difference®** recognizes people (individuals or groups) who have made a remarkable and visible contribution to the enhancement, protection or development of water resources in California.

The recipient has the honor of presenting a \$5,000 charitable donation to a non-profit organization that works toward the enhancement and / or protection of California's water resources.

**The awards will be presented during the conference meal functions. Please join us in recognizing these exceptional individuals and organizations in their efforts to support and join forces with ACWA.**





Agenda Item 120  
**ACWA 2016 SPRING  
 CONFERENCE & EXHIBITION  
 AGENDA**

**ACWA/JPIA - MONDAY, MAY 2**

**8:00 – 10:00 AM**

- Join ACWA/JPIA for a Protect Your Health Walk!

**10:15 – 11:15 AM**

- ACWA/JPIA Executive Committee

**1:30 – 4:00 PM**

- ACWA/JPIA Board of Directors

**4:00 – 5:00 PM**

- ACWA/JPIA Town Hall

**5:00 – 6:00 PM**

- ACWA/JPIA Reception

**TUESDAY, MAY 3**

**7:30 AM**

- ACWA 2016 Spring Conference Golf Tournament  
*Sponsored by Deloach & Associates, Inc. & NBS*

**8:00 AM – 6:00 PM**

- Registration

**8:00 AM – 11:45 AM**

- ACWA/JPIA: Seminars

**10:00 – 11:45 AM**

- Groundwater Committee
- Local Government Committee

**11:00 AM – Noon**

- Outreach Task Force

**Noon – 2:00 PM**

- ACWA 101 & Luncheon
- Committee Lunch Break

**1:00 – 2:45 PM**

- Energy Committee
- Finance Committee
- Scholarship & Awards Subcommittee
- Water Management Committee

**2:00 – 4:00 PM**

- SDFL Special District Administrator Certification Test

**1:30 – 3:30 PM**

- ACWA/JPIA: Sexual Harassment Prevention for Board Members & Managers (AB 1825)

**3:00 – 4:45 PM**

- Communications Committee
- Federal Affairs Committee

**3:00 – 4:45 PM**

- Membership Committee
- Water Quality Committee

**5:00 – 6:30 PM**

- Welcome Reception in the Exhibit Hall

**WEDNESDAY, MAY 4**

**7:30 AM – 5:00 PM**

- Registration

**8:00 – 9:45 AM**

- Opening Breakfast *(Ticket Required)*

**9:00 AM – Noon & 1:30 – 5:00 PM**

- Exhibit Hall

**10:00 – 11:30 AM**

- Attorneys Program
- Energy Committee Program
- Exhibitor Technical Presentations
- Finance Program
- Region Issue Forum
- Statewide Issue Forum
- Water Industry Trends Program

**11:30 – 11:45 AM**

- Prize Drawing in the Exhibit Hall

**11:45 AM – 1:45 PM**

- General Session & Luncheon *(Ticket Required)*

**2:00 – 3:15 PM**

- Aquatic Resources Subcommittee
- Attorneys Program
- Exhibitor Technical Presentation
- Region Program
- Statewide Issue Forum
- Water Industry Trends Program

**3:30 – 4:45 PM**

- Communications Committee Program
- Energy Committee Program
- Exhibitor Technical Presentation
- Finance Program
- Statewide Issue Forum

**4:00 – 6:00 PM**

- Legal Affairs Committee

**5:00 – 7:00 PM**

- CalDesal Hosted Mixer

**5:30 – 7:00 PM**

- CH2M Hosted Reception

**THURSDAY, MAY 5**

**7:30 AM – 4:00 PM**

- Registration

**8:00 AM – Noon**

- Exhibit Hall

**8:00 – 9:15 AM**

- Networking Continental Breakfast  
*(Ticket Required)*

**9:30 – 11:00 AM**

- Attorneys Program
- Exhibitor Technical Presentations
- Finance Program
- Statewide Issue Forum
- Water Industry Trends Program

**9:30 - 11:45 AM**

- Ethics Training (AB 1234) - *Limited Seating*

**11:00 – 11:30 AM**

- Prize Drawings in the Exhibit Hall

**11:45 AM – 1:45 PM**

- General Session & Luncheon *(Ticket Required)*

**2:00 – 3:15 PM**

- Attorneys Program
- Exhibitor Technical Presentations
- Federal Issues Forum
- Region Issue Forum
- Town Hall
- Water Industry Trends Program

**3:30 – 5:00 PM**

- Regions 1 – 10  
 Membership Meetings

**5:30 – 6:30 PM**

- Cheers to the Future: Connect with Water's Next Generation - *Reception Sponsored by Yuba County Water District*

**7:00 – 9:30 PM**

- Dinner & Entertainment *(Ticket Required)*

**FRIDAY, MAY 6**

**8:00 – 9:30 AM**

- Registration

**8:30 – 10:00 AM**

- ACWA's Hans Doe Past Presidents' Breakfast in Partnership with ACWA/JPIA *(Ticket Required)*

All conference programs are subject to change.

## REGISTRATION TERMS & CONDITIONS

### ACWA 2016 Spring Conference & Exhibition Monterey Marriott & Portola Hotel

MAY  
3-6  
2016

Register online @ [acwa.com](http://acwa.com)

Regular registration and cancellation deadline is April 8, 2016 • 4:30 p.m. (PST)

#### WHO IS ELIGIBLE FOR "ACWA ADVANTAGE" PRICING?

ACWA Advantage pricing is available to the following registrants:

- An officer or director of an ACWA member agency.
- A person directly employed by an ACWA public agency member, affiliate or associate organization. This does not include independent contractors, service providers, or third-party vendors.
- Any ACWA board member whose fee is paid for by member agency.
- Any state or federal administrative or legislative personnel in elected, appointed or staff positions.
- Staff of ACWA/JPIA and Water Education Foundation.
- Any individual or honorary life member of ACWA.

#### ONE-DAY REGISTRATION

By choosing a Wednesday registration, you are entitled to attend the Welcome Reception on Tuesday evening and all programs on Wednesday. By choosing a Thursday registration, you are entitled to attend all programs on Thursday and the capability to attend the Friday closing breakfast, with the purchase of a meal ticket.

#### CANCELLATIONS & CHANGES

All registration changes and cancellations must be made in writing by the event registration deadline. Valid cancellation requests will receive a refund of any registration fees paid minus a \$75 processing charge. For payments originally made by credit card, refunds can be issued back onto the credit card within 60 days. Otherwise, a refund will be issued by check. No refunds or registration changes will be granted after the registration deadline. Submit request in writing to Teresa Taylor at [TeresaT@acwa.com](mailto:TeresaT@acwa.com).

#### SUBSTITUTIONS

Event registrations are transferable from one participant to another within the same organization. Please submit your request in writing before the event registration deadline to Teresa Taylor at [TeresaT@acwa.com](mailto:TeresaT@acwa.com). Include the original registrant's name, the new person's name, title and email address with your request. After the registration deadline, substitutions will be handled on-site. Only one substitution is permitted per original registrant. The individual submitting the substitution request is responsible for all financial obligations (including any balance due) associated with the original registration. There is no fee to transfer an eligible registration.

#### SPECIAL REQUESTS & ACCOMMODATIONS

Special requests must be submitted in writing to Teresa Taylor at [TeresaT@acwa.com](mailto:TeresaT@acwa.com). Participants are encouraged to submit special requests as soon as possible.

If you have a disability that requires an accommodation, please contact Melanie Medina at [MelanieM@acwa.com](mailto:MelanieM@acwa.com) or call toll free at (888) 666-2292 to discuss your needs.

#### REFUNDS

Except as otherwise provided in this document, all payments and fees are nonrefundable after the registration deadline.

#### MEAL TICKETS

After registration deadline, meal tickets are not eligible for exchange, refund or credit.

#### NONATTENDANCE

Registrants who fail to attend the event, in part or in whole, are not eligible for a refund or credit and will be billed for any balance due.

#### GUEST REGISTRATION

Guest registration is available to a spouse, companion or guest of an ACWA event registrant. Guest registration is not available to any employees of a public agency, associate or affiliate/mutual water company. Guest registration is also not available to anyone with a professional reason to attend for purposes of learning or business. The guest registration includes admission to the Exhibit Hall, the opening reception and the ability to purchase meal tickets and attend meal functions. **Guest registrants are not eligible for cash or prize drawings.**



# REGISTRATION FORM

Monterey Marriott & Portola Hotel



Register online @ [acwa.com](http://acwa.com)

Regular registration and cancellation deadline is April 8, 2016 • 4:30 p.m. (PST)

## ATTENDEE INFORMATION

|              |                 |           |       |     |
|--------------|-----------------|-----------|-------|-----|
| First Name   | Last Name       | Title     |       |     |
| Organization | Address         | City      | State | Zip |
| Phone        | Attendee E-mail | CC E-mail |       |     |

## GUEST INFORMATION (Guest registration is not available to anyone with a professional reason to attend.)

|            |           |
|------------|-----------|
| First Name | Last Name |
|------------|-----------|

### REGISTRATION FEES & OPTIONS

|  | REGULAR       | ONSITE     | AMOUNT |
|--|---------------|------------|--------|
| <b>Advantage</b> (For ACWA public agency members, affiliates & associates ONLY)                    | (ends 4/8/16) |            |        |
| Full Conference Registration & Meals Package .....   | \$695         | Not Avail. | _____  |
| Full Conference Registration Only .....  | \$535         | \$560      | _____  |
| One-Day Conference Registration: Wednesday (5/4/16) -OR- Thursday (5/5/16) ..                      | \$300         | \$325      | _____  |
| <b>Standard</b> (Applies to non-members of ACWA)   |               |            |        |
| Full Conference Registration Only .....  | \$805         | \$830      | _____  |
| One-Day Conference Registration: Wednesday (5/4/16) -OR- Thursday (5/5/16) ..                      | \$450         | \$475      | _____  |
| <b>Guest</b> (Guest registration is not available to anyone with a professional reason to attend.) |               |            |        |
| Guest Conference Registration .....  | \$45          | \$45       | _____  |

### MEAL FUNCTIONS

|  | QUANTITY | REGULAR | ONSITE | AMOUNT |
|--|----------|---------|--------|--------|
| <b>Wednesday – May 4</b>               |          |         |        |        |
| Opening Breakfast .....                | _____    | \$45    | \$50   | _____  |
| Wednesday Luncheon .....               | _____    | \$50    | \$55   | _____  |
| <b>Thursday – May 5</b>                |          |         |        |        |
| Networking Continental Breakfast ..... | _____    | \$35    | \$40   | _____  |
| Thursday Luncheon .....                | _____    | \$50    | \$55   | _____  |
| Thursday Dinner .....                  | _____    | \$65    | \$70   | _____  |
| <b>Friday – May 6</b>                  |          |         |        |        |
| Friday Breakfast .....                 | _____    | \$45    | \$50   | _____  |

**Total Due to ACWA** \_\_\_\_\_

## PAYMENT INFORMATION

Enclosed is check (if available, # \_\_\_\_\_) payable to ACWA  
 Send payment to: ACWA, 910 K Street, Ste. 100 • Sacramento, CA 95814

Please charge my fee to my credit card. *You must call ACWA Accounting at 916-441-4545 and provide your credit card information over the phone.*

**Submit Completed Form:** Click "Submit Form" at top of screen or e-mail to [TeresaT@acwa.com](mailto:TeresaT@acwa.com).

**Questions?** Call 916.441.4545





# Association of California Water Agencies

Since 1910

Leadership • Advocacy • Information • Service

910 K Street, Suite 100, Sacramento, CA 95814-3577

Agenda: 4/7/16

Item: 12c Presorted  
First Class  
**PAID**  
Permit # 949  
Sacramento, CA

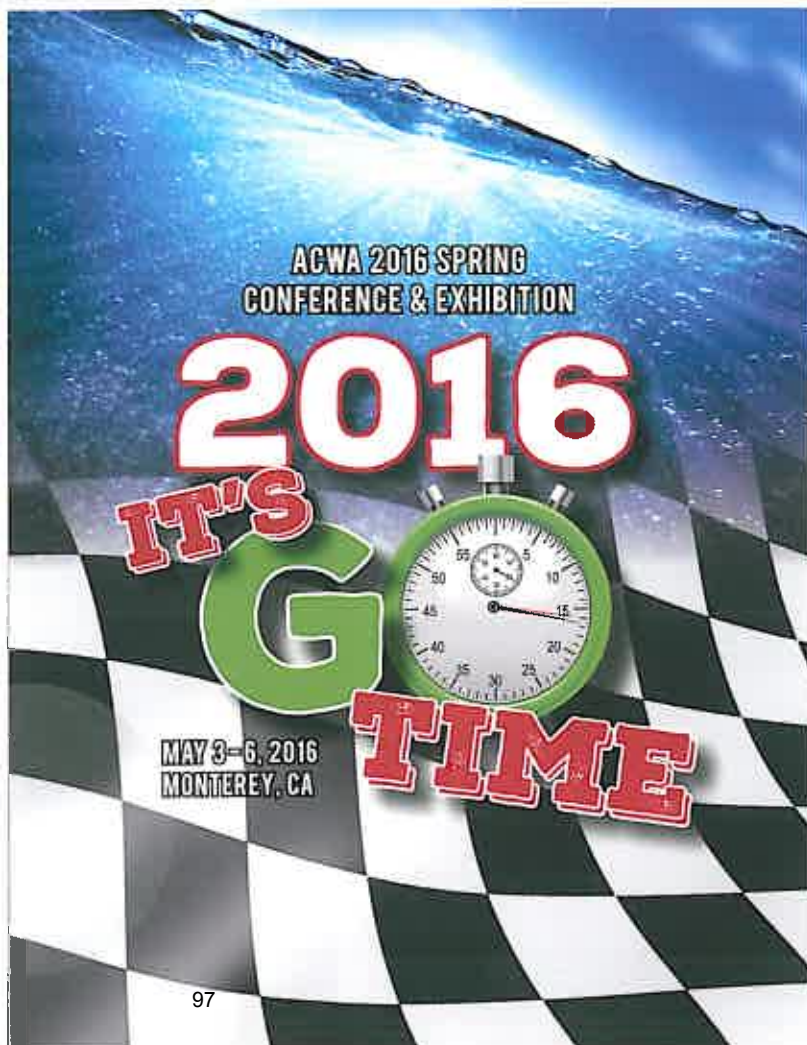
\*\*\*\*AUTO\*\*ALL FOR AADC 950  
Holly Morrison  
Admin Assistant/District Secretary  
San Lorenzo Valley Water District  
13060 Highway 9  
Boulder Creek CA 95006-9119



## UPCOMING ACWA EVENTS

- Aug 4**      **Region 8 Event**  
Location TBD
- Aug 5**      **Region 1 Event**  
Sonoma, CA
- Sept 9**      **Region 3 Event**  
Location TBD
- Sept 15 – 16**      **2016 Continuing Legal Education for Water Professionals**  
Bahia Resort Hotel, San Diego  
*Continuing Legal Education (CLE) credit available.*
- Sept 23**      **2016 Steve Hall Fierce Competitor Golf Tournament**  
DarkHorse Golf Club, Auburn
- Oct 3 – 4**      **2016 Regulatory Summit**  
Bay Area, CA
- Oct 14**      **Region 6 & 7 Event**  
Visalia, CA
- Nov 29 – Dec 2**      **2016 Fall Conference & Exhibition**  
Anaheim Marriott Hotel

VISIT [WWW.ACWA.COM](http://WWW.ACWA.COM) FOR DETAILS



ACWA 2016 SPRING  
CONFERENCE & EXHIBITION

# 2016

IT'S  
**G**

**TIME**

MAY 3-6, 2016  
MONTEREY, CA

## M E M O

TO: Board of Directors  
FROM: District Manager  
SUBJECT: Administration/Engineering Departments Status Report  
DATE: April 7, 2016

### RECOMMENDATION:

It is recommended that the Board of Directors review and file the Administration/Engineering Departments status report.

### BACKGROUND:

#### MEETINGS OF NOTE

- On March 17 the District hosted this months Manager's luncheon.

#### ENTERPRISE WIDE COST-OF-SERVICE STUDY

- Management met with staffing consultant on March 24<sup>th</sup>.
- Management conducted field survey with consultant on March 28<sup>th</sup>
- Finance Committee conducted kick-off meeting with consultant on March 29<sup>th</sup>
- Staff interviews are scheduled for April 6 and 11.

The intent of this study is to determine what the true cost of providing water and sewer service includes; watershed protection, water rights management, infrastructure, staffing and administration. These issues will be studied both from a geographical and seasonal standpoint.

#### PROBATION TANK REPLACEMENT PROJECT

The 100% Plan Review is currently in progress. The Project's Habitat Conservation Plan (HCP) was approved by the Board in late summer. The State has conducted an initial review of the HCP. Staff met with the State on-site at Olympia. Staff and consultant are coordinating modifications to the HCP with the hope of final State Approval in summer 2016. Project is scheduled for bidding in late-2016 and construction is expected to be completed in early 2017. Construction is expected to take 6 months

#### SWIM TANKS REPLACEMENT PROJECT

Final plans and specs have been received and reviewed. Some final changes are being returned to the design engineer. Project is scheduled for bidding in early mid-2016 and construction is expected to be completed in mid late-2016.

## FALL CREEK FISH LADDER

100% plans and specifications are under staff review.

Staff recently was informed by Federal Fish and Wildlife (FFW) that the Fall Creek Diversion and Fish Ladder do not qualify for streamlined permitting. This is a change of direction from past conversations over the last three years. Individual consultation will be required and the District will be submitting a request to the Army Corp of Civil Engineers. This new information will delay the project at least a year, if not longer.

## INTERTIES 2, 3, 4

Project is ~~under~~ finishing construction. Start-up was initiated in late March and District is testing the effectiveness of moving water between service areas using the Intertie 3/4 Station. A joint test with Scotts Valley is being scheduled for Intertie 2. ~~Construction should be finished by early March 2016 or soon thereafter.~~

County has rejected all paving on Graham Hill Road. Paving, in particular the saw-cut grooving is unraveling. District is investigating to determine cause and how to correct. Staff has contracted with NCE to conduct forensic services.

## FELTON HEIGHTS WATER STORAGE TANK

Staff is working to obtain necessary easements on neighboring property. Design is expected for ~~winter~~ summer of 2016 with construction occurring in ~~summer~~ fall 2016.

## LOMPICO

The Lompico Assessment District ballot count is scheduled to take place May 4<sup>th</sup>, 2016. If a majority of the returned ballots are 'yes', and the Assessment District is formed, the District will begin working with Lompico and LAFCO in preparing final paperwork for the merger. Staff intends to begin operating the Lompico facilities as soon as practical if a majority of Lompico property owners agree to the Assessment District.

## ~~CAPITAL IMPROVEMENT PROGRAM~~



~~The first workshop was held on Saturday, May 9 at the Felton Community Hall. Staff considers it a successful meeting with approximately 16 public members in attendance. A list of criteria was developed and formal prioritizing of said list has begun.~~





~~The second workshop was held June 25<sup>th</sup> (San Lorenzo Valley Unified School District offices, 325 Marion Ave., Ben Lomond, CA) and finalized the prioritization of criteria. Approximately 30 people attended.~~



~~The third workshop was held September 23<sup>rd</sup> at Highland Park and develop internal ranking for each separate criteria previously identified. This is the last step before actual ranking of the projects occurs.~~

~~The fourth workshop was held February 25<sup>th</sup> at District's Board Room. Workshop reviewed and discussed how the ranking and prioritizing applies to proposed individual CIP projects.~~

~~Staff believes the CIP workshop series has concluded and anticipates that the developed five year CIP will be used to model capital expenditures in the upcoming 2016 Rate Study (expected to start in the fall of 2016).~~

|   | Title  | Effort  | Start    | End      | Completed |
|---|--|---------|----------|----------|-----------|
| ▼   | 1) Probation Tank Site                             | 151w 4d | 8/19/15  | 1/19/18  | 50%       |
| •   | 1.1) Design  | 27w 4d  | 8/19/15  | 2/29/16  | 95%       |
| ▶   | 1.2) Permitting                                    | 71w 3d  | 8/19/15  | 1/18/17  | 70%       |
| •   | 1.3) Construction                                  | 52w 2d  | 1/18/17  | 1/19/18  | 0%        |
| ▼   | 2) Swim Tank Site                                  | 65w 4d  | 8/20/15  | 11/16/16 | 45%       |
| ▼   | 2.1) Design  | 30w 4d  | 9/4/15   | 5/17/16  | 70%       |
| •   | 2.1.1) 60% Plan Review                             | 3w 1d   | 9/4/15   | 9/25/15  | 100%      |
| •   | 2.1.2) Finalize Plans                              | 8w      | 9/28/15  | 11/20/15 | 100%      |
| ▶   | 2.1.3) 100% Plan Review                            | 7w 1d   | 11/23/15 | 2/19/16  | 99%       |
| •   | 2.1.4) Prepare Bid Docs                            | 6w 2d   | 2/22/16  | 4/5/16   | 50%       |
| •   | 2.1.5) Bid Project                                 | 6w      | 4/6/16   | 5/17/16  | 0%        |
| ◆   | 2.1.6) Award Project                               | 0h      | 5/17/16  | 5/17/16  | 0%        |
| ▶   | 2.2) Permitting                                    | 8w 4d   | 8/20/15  | 1/20/16  | 90%       |
| •   | 2.3) Construction                                  | 26w 1d  | 5/18/16  | 11/16/16 | 0%        |
| ▶   | 3) Intertie 6 Pipeline and Booster Station         | 0h      | 9/17/15  | 9/17/15  | 100%      |
| ▼   | 4) Interties 2, 3 4 Pipelines and Booster Stations | 25w 4d  | 9/10/15  | 3/11/16  | 99%       |
| ▼   | 4.1) Construction                                  | 25w 4d  | 9/10/15  | 3/11/16  | 99%       |
| •   | 4.1.1) Paving Graham Hill Road                     | 2d      | 10/5/15  | 10/6/15  | 20%       |
| ▶   | 4.1.2) Pump Stations                               | 25w 2d  | 9/10/15  | 3/11/16  | 100%      |
| ▶   | 5) Olympia Mutual Pipelines                        | 0h      | 10/15/15 | 10/15/15 | 100%      |
| ▶   | 6) Sunnycroft Fire Pipeline                        | 2w      | 10/1/15  | 10/14/15 | 100%      |
| ▼   | 7) Felton Heights Water Storage Tank               | 90w 3d  | 9/9/15   | 4/18/17  | 10%       |
| ▼   | 7.1) Design  | 54w 3d  | 9/9/15   | 11/1/16  | 16%       |
| ▶   | 7.1.1) Easements                                   | 14w 3d  | 9/9/15   | 3/22/16  | 60%       |

|   | Title                          | Effort  | Start   | End      | Completed |
|---|--------------------------------|---------|---------|----------|-----------|
|   | • 7.1.2) Geotechnical          | 8w      | 1/8/16  | 3/3/16   | 0%        |
|   | • 7.1.3) RFP for Design        | 6w      | 3/23/16 | 5/3/16   | 0%        |
|   | • 7.1.4) Design                | 16w     | 5/4/16  | 8/23/16  | 0%        |
|   | • 7.1.5) Prepare Bid Docs      | 4w      | 8/24/16 | 9/20/16  | 0%        |
|   | • 7.1.6) Bid                   | 6w      | 9/21/16 | 11/1/16  | 0%        |
|   | ◆ 7.1.7) Award Bid             | 0h      | 11/1/16 | 11/1/16  | 0%        |
|   | • 7.2) Permitting              | 12w     | 5/4/16  | 7/26/16  | 0%        |
|   | • 7.3) Construction            | 24w     | 11/2/16 | 4/18/17  | 0%        |
| ▼   | 8) Fall Creek Fish Ladder      | 135w 3d | 9/4/15  | 5/12/17  | 19%       |
| ▼   | 8.1) Design                    | 27w 1d  | 9/4/15  | 5/12/17  | 64%       |
|   | • 8.1.1) 90% Plan Review       | 2w 1d   | 9/4/15  | 9/18/15  | 100%      |
|   | ▶ 8.1.2) Finalize Plans        | 15w     | 9/21/15 | 3/31/16  | 90%       |
|   | • 8.1.3) Prepare Bid Package   | 4w      | 4/1/16  | 4/28/16  | 40%       |
|   | • 8.1.4) Bid Project           | 6w      | 4/3/17  | 5/12/17  | 0%        |
|   | ◆ 8.1.5) Award Bid             | 0h      | 5/12/17 | 5/12/17  | 0%        |
|    | • 8.2) Pergamitary             | 82w 1d  | 9/4/15  | 3/31/17  | 10%       |
|    | • 8.3) Construction            | 26w 1d  | 4/15/16 | 10/14/16 | 0%        |
| ▶   | 9) Prosser Property Demolition | 8w 2d   | 9/9/15  | 12/17/15 | 100%      |
| ▶   | 10) Front Office HVAC          | 13w 2d  | 9/9/15  | 12/10/15 | 100%      |
| ▼   | 11) Front Office LAPP          | 39w 1d  | 9/9/15  | 8/5/16   | 32%       |
|   | ▶ 11.1) Deisgn                 | 25w 1d  | 9/9/15  | 4/29/16  | 50%       |
|   | • 11.2) Permitting             | 8w      | 5/2/16  | 6/24/16  | 0%        |
|   | • 11.3) Construction           | 6w      | 6/27/16 | 8/5/16   | 0%        |
| ▼   | 12) Lyon SCADA                 | 8w 2d   | 9/4/15  | 2/29/16  | 100%      |
| ▼   | 12.1) Design                   | 8w 2d   | 9/4/15  | 2/29/16  | 100%      |
|   | ▶ 12.1.1) Obtain Quote         | 8w 2d   | 9/4/15  | 2/29/16  | 100%      |
| ▼   | 13) Meter Change Out           | 110w    | 8/19/15 | 12/28/17 | 6%        |

|   | Title                      | Effort | Start   | End      | Completed |
|---|----------------------------|--------|---------|----------|-----------|
| •   | 13.1) Felton Diversion     | 6w     | 8/19/15 | 9/29/15  | 100%      |
| ▶   | 13.2) Consumer             | 104w   | 8/19/15 | 12/28/17 | 1%        |
| ▼   | 14) 2016 UWMP              | 19w 2d | 2/5/16  | 6/20/16  | 25%       |
| •   | 14.1) RFP                  | 3w 1d  | 2/5/16  | 2/26/16  | 100%      |
| ◆   | 14.2) Award Contract       | 0h     | 2/26/16 | 2/26/16  | 100%      |
| •   | 14.3) Prepare UWMP         | 16w 1d | 2/29/16 | 6/20/16  | 10%       |
| ◆   | 14.4) Adopt UWMP           | 0h     | 6/20/16 | 6/20/16  | 0%        |
| ◆   | 14.5) Submit UWMP to State | 0h     | 6/20/16 | 6/20/16  | 0%        |
| ▼   | 15) Cost of Service Study  | 16w 4d | 1/7/16  | 5/11/16  | 36%       |
| •   | 15.1) RFP                  | 4w 4d  | 1/7/16  | 2/9/16   | 100%      |
| ◆   | 15.2) Award Contract       | 0h     | 2/18/16 | 2/18/16  | 100%      |
| •   | 15.3) Study                | 12w    | 2/18/16 | 5/11/16  | 10%       |
| ▼   | 16) Rate Study             | 20w    | 5/12/16 | 9/28/16  | 0%        |
| •   | 16.1) RFP                  | 8w     | 5/12/16 | 7/6/16   | 0%        |
| ◆   | 16.2) Award Contract       | 0h     | 7/6/16  | 7/6/16   | 0%        |
| •   | 16.3) Study                | 12w    | 7/7/16  | 9/28/16  | 0%        |

## M E M O

TO: Board of Directors

FROM: District Manager  
PREPARED BY: Environmental Programs Manager

SUBJECT: Environmental Status Report

DATE: April 7, 2016

### RECOMMENDATION:

It is recommended that the Board of Directors review and file the Environmental Department status report.

### BACKGROUND:

#### NOAA FISH SURVEY ON ZAYANTE REPORT

The National Oceanic and Atmospheric Administration contacted staff last summer for permission to conduct surveys for Coho and steelhead in the stretch of Zayante Creek which flows adjacent to District property. We received a summary of those findings. 10-12% of fish accessible stream miles were surveyed, including 22 pools. No Coho salmon were detected during the surveys, however steelhead/rainbow trout were identified in 83% of the surveys. Details are provided in the attached document.

#### 2015 URBAN WATER MANAGEMENT PLAN (UWMP)

Staff conducted a kick-off meeting with Water Systems Consulting, the consultant who will be leading the 2015 UWMP update. Staff has begun transferring data to WSC in order to prepare the document. We expect to submit the document by September 1<sup>st</sup>.

#### GRANT PROGRAMS

Staff facilitated another round of the 2016 Classic Watershed Education Grants. The Education Commission met on March 31<sup>st</sup> to discuss the 11 applications submitted at a publically noticed meeting. Nine of the eleven applicants were present at the meeting to discuss their proposals in person. The Education Commission has recommended six of the eleven proposals to the Board for full funding.

#### WATER CONSERVATION

The District is partnered with the California Native Grasslands Association and the State Department of Water Resources and the Water Conservation Coalition of Santa Cruz County to offer a lawn replacement workshop called California's New Front Yard: Creating a Low Water Landscape. The workshop at the UCSC Arboretum was attended at full capacity and the Water Conservation Coalition and SLVWD was recognized throughout out the event as a partner. At the workshop there was a booklet provided which had excellent water conservation landscape information. Staff secured a digital copy for the watersavingtips.org website to be used freely by the community through out Santa Cruz County.



Staff discussed a revised plan for the Water Conservation Rebate program at the last Environmental, Engineering and Planning Committee meeting on March 24 at 10:00AM. The EEP Committee recommended that bring the updated program to the Full Board in April.

Staff is proposing to hire a Water Conservation Coordinator position. A discussion of the position was held at the March 24<sup>th</sup> Environmental, Engineering and Planning Committee meeting. The EEP Committee recommended Staff bring the proposal to the Full Board in April.

Staff continues to coordinate with the Water Conservation Coalition for a collaborative regional public outreach campaign. The District continues to support Cabrillo College water conservation/landscape course work. Spring classes are scheduled to begin in March. <http://www.cabrillo.edu/services/extension/green.html>  
Upcoming Water Conservation Coalition collaborative efforts include:  
Earth Day: April 16<sup>th</sup>

CWC Storm water/Groundwater Recharge Tour: April 23

#### FALL CREEK FISH LADDER

Staff has been working with National Oceanic and Atmospheric Administration (NOAA), California Department of Fish and Wildlife (CDFW) and Resource Conservation District (RCD) to determine the next steps for permitting the Fish Ladder construction project. On the eve of the finalization of the 100% specifications, as the District was preparing to go to bid on the construction of the fish ladder, National Marine Fisheries Service (NMFS) announced that the project would not qualify to be permitted under the RCD permit coordination program (a bundled permit which streamlines the permitting process for restoration projects in Santa Cruz County). The District has been working with NMFS for 3 years on the design of the Fall Creek Fish Ladder Upgrade, and was not notified of the permit issues until the final days before the bid was issued. This notification will delay the project until permits can be obtained from the following agencies:

NOAA

Army Corps of Engineers

Central Coast Regional Water Quality Control Board

Natural Resources Conservation Service

US Fish and Wildlife Service

California Department of Fish and Wildlife

County of Santa Cruz

The District is committed to providing passage to steelhead in all life stages in Fall Creek and will continue to pursue permits to implement construction of the Fish Ladder in summer 2017.

The reasoning behind this determination is that in 2005 the Endangered Species issued a critical habitat designation for 10 west coast steelhead populations, which required that diversions on creeks, which support Steelhead require a Biological Opinion and a Take permit. Because this fish ladder construction project is in association with the Districts diversion on Fall Creek, a permit for construction cannot be issued with out bypass flow agreement to ensure sufficient flow to support all life stages of Steelhead Trout.

In order to inform our proposal for bypass flows in association with the Biological Opinion, the District has initiated a Critical Riffle Study on the lower .5-mile of Fall Creek to identify shallow places that may present passage barriers for any life stages of steelhead trout. This study will take place through fall of 2016.

#### HYDROLOGICAL ASSESSMENT

Staff has been working with Nick Johnson Principal Hydro-geologist, PhD, PG, CHg, to assess the current status of District groundwater and surface resources, in an effort to identify potential need for supplemental, optimized and more efficient water supply sources. Factors driving the District's efforts include the following:

- A substitute water supply for the Felton Service Area is needed when water-rights criteria restrict Fall Creek diversions (i.e., when San Lorenzo River flows are below seasonal thresholds).
- A supplemental water supply for the South System is needed to allow groundwater levels in the vicinity of the Pasatiempo wells to recover and stabilize following fairly steady declines over the past 25 years.
- Supplemental supplies are needed during drought periods, given the supply limitations experienced during recent years (e.g., minimal available diversions, Olympia well field drawdown).
- Supplemental supplies are potentially needed to meet the additional water demands associated with SLVWD's recent and expected annexation of other water supply systems (e.g., the Lompico Water District).
- Supplemental supplies, and/or increased optimization and efficiency of existing supplies, may be needed to offset potential future water-rights modifications that may limit stream diversions.

#### PUBLIC OUTREACH/ DROUGHT OUTREACH

- The District will continue to conduct a mainline flushing program in the month of April. Notifications will be mailed to residents with in the areas impacted. A press release has been issued, FB posts are scheduled, and information has been posted to our website as well as in our monthly newsletter.
- E Newsletters are sent out to over 3000 customer email addresses at least monthly.
- The District Facebook page and website are updated regularly (3-5 times per week).
- Media Alerts have been published in local papers regarding:
  1. Will El Nino save us from Drought?

RECEIVED

MAR 07 2016

SAN LORENZO VALLEY  
WATER DISTRICT



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
National Marine Fisheries Service  
Southwest Fisheries Science Center  
Fisheries Ecology Division  
110 Shaffer Road  
Santa Cruz, California 95060

February 26, 2016

Dear San Lorenzo Valley Water District :

Last summer, we contacted you about a fish survey we were conducting in Zayante Creek, which flows adjacent to your property. In your response, you indicated that you would like to receive a summary of our findings, so we would like to provide you a brief overview of the purpose of our project and what we found this past summer in Zayante Creek, as well as in the study area overall.

The primary goal of our project was to survey streams in Santa Cruz and coastal San Mateo counties to determine whether there was successful reproduction by coho salmon during the 2014-2015 spawning season. This information is important in helping the National Marine Fisheries Service assess the status of local salmon and steelhead populations.

Overall, our crews surveyed approximately 10-12% of all stream miles that are accessible to coho salmon in the Santa Cruz Mountain region. Juvenile coho salmon were found in five different watersheds, including Waddell Creek, Scott Creek, San Vicente Creek, Laguna Creek, and Soquel Creek. Results for the specific stream reach adjacent to your property are summarized in the attached sheet. Evidence from our study, as well as other research conducted in the area indicates that the 2014-2015 spawning year produced the largest return of coho salmon to the Santa Cruz Mountain region in 10 years.

We sincerely appreciate your interest in our project and thank you for your support. If you have any further questions about the nature of our research or any other issues you would like to discuss, please do not hesitate to contact us. Our contact information is listed below.

Thank you again for supporting our project.

Sincerely,

A handwritten signature in blue ink that reads "Brian C. Spence".

Brian C. Spence, PhD.  
Research Fishery Biologist  
Email: [Brian.Spence@noaa.gov](mailto:Brian.Spence@noaa.gov)  
Phone: 831-420-3902

A handwritten signature in blue ink that reads "Joseph D. Kiernan".

Joseph D. Kiernan, PhD.  
Research Ecologist  
Email: [Joseph.Kiernan@noaa.gov](mailto:Joseph.Kiernan@noaa.gov)  
Phone: 831-420-3975



## Summary of Survey Findings for Zayante Creek Site 249 - Summer 2015

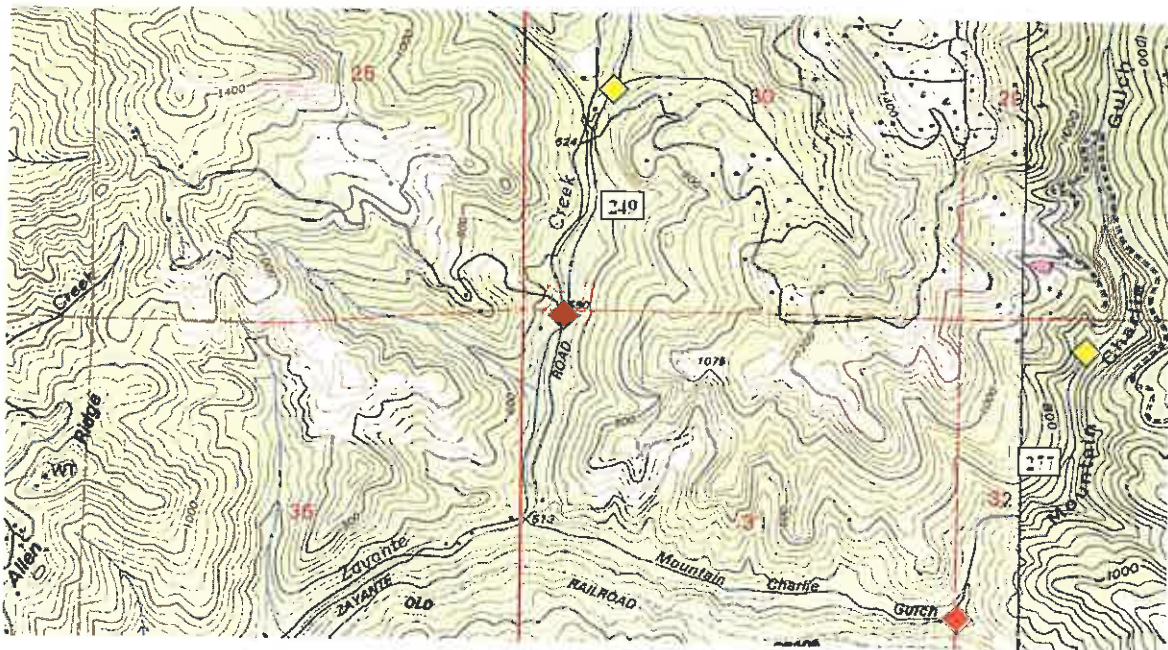
|  |                              |
|--|------------------------------|
| <b>Site identification number:</b>         | 15SL249                      |
| <b>Survey date(s):</b>                     | 9/21/2015 and 9/23/2015      |
| <b>Reach length:</b>                       | 1.22 kilometers              |
| <b>Number of pools surveyed:</b>           | 22                           |
| <b>Aggregate length of pools surveyed:</b> | .328 kilometers              |
| <b>Fish species observed:</b>              | Steelhead, Sacramento Sucker |

**Summary:** Zayante Creek was surveyed from the East Zayante Road crossing to a point ~1.2km upstream, just beyond Fern Ridge (see map). This site was surveyed on consecutive days to help estimate the probability of detecting a species using our survey protocol.

Overall, we found steelhead/rainbow trout (*Oncorhynchus mykiss*) in 83% of pools surveyed. Young-of-the-year steelhead were found in 78% of pools surveyed. Age 1 and 2 steelhead were found in 48% and 22% of pools, respectively.

No coho salmon (*Oncorhynchus kisutch*) were detected during our surveys. This is not surprising, as there have been limited reports of coho salmon in the San Lorenzo watershed in recent years. Juvenile Coho salmon were last detected in the San Lorenzo watershed in 2005, and adults have been reported sporadically over recent years.

### Site Map:



**SAN LORENZO VALLEY WATER DISTRICT  
ADMINISTRATIVE COMMITTEE  
MEETING NOTES  
March 29, 2016  
11:00 a.m.**

**1. CONVENE MEETING/ROLL CALL:**

Committee Chair Bruce convened the meeting at 11:05a.m. Roll call showed Directors Brown and Bruce and Committee Member Fultz present. Staff present were District Manager Lee and Finance Manager Stephanie Hill.

**2. ORAL COMMUNICATIONS:**

No members of the public spoke.

**3. OLD BUSINESS:**

**3.a Past Due Changes**

There was no public comment on this item.

The committee heard analysis and recommendations from staff regarding changes to the District's past due bills policies.

The change from a two month to a one month billing cycle has created some confusion and difficulty for customers. As it stands, there are two due dates on past due bills, the date for the past due amount, and the due date for the current amount. Staff's recommendation is to merge these two dates. The 'past due' amount would be due at the same time as the current charges.

Staff also reviewed the present assessed fees and charges for late tags, water turn-offs and turn-ons. The District's charges for these is lower than other comparable Districts, and the amounts have not been changed in at least 20 years.

The Committee discussed Staff's analysis and recommendation. Issues raised included:

- Frequency or number of late tags - Any change in frequency or number is difficult to attribute to any one factor. However, hanging tags is time consuming and for

reasons of staff-time, the District would like to reduce the number of late tags by half, over time.

- Are there automated ways to shut off a customer's water - No. Even with the modern meters, the technology to perform remote shut-offs is not in place.
- Sprinkler systems and water service shut-offs - would shut offs impact water supply for a fire safety system and is that a factor to be taken into consideration? Perhaps, but that is a complex issue that would need to be taken up separately.

The consensus of the committee was that the District shouldn't generate revenue from these fees or charges, but it should cover the majority of its costs in a way that is clear, fair and well-communicated ahead of the effective date.

The committee recommended that staff's recommendation be taken up by the full board on the next appropriate board agenda.

#### **4. NEW BUSINESS:**

##### 4.a Leak Adjustment Policy

There was no public comment on this item.

This item was an item of significant discussion at that last board meeting. A customer had a single leak event that spanned two billing periods. The question is whether to maintain the leak adjustment policy as it is, or to adjust.

The committee discussed, with input from staff regarding frequency of 'leak adjustments' (those are declining) and frequency of customers with leaks spanning two billing periods (which is not uncommon).

The consensus of the committee was to clarify the leak adjustment policy so that:

- It addressed AN EVENT, rather than one billing cycle.
- It retained the present dollar limit.
- It requires that if the leak event spanned two billing periods, that the leak be corrected within the two months of those billing periods.

The committee recommended that this move forward to board for their consideration on the next appropriate agenda.

##### 4.b General Counsel/Legal Service Contract

There was no public comment on this item.

Staff opened this item for discussion, although there was no specific proposal put before the committee.

The members of the committee reflected on the range of legal advice the District needs, or may need in the future, that is far more diverse than the role of “General Counsel”.

The committee members concurred on the objective to put long-term service contracts out to a competitive selection process on a regular basis, but also acknowledged the value of continuity for a service such as legal advice, which may involve litigation support, that can go on for many years.

The committee discussed the value of having a description of the various types of legal support staff foresees the District needing, the relative scale or scope of those needs, their priority and their timing. The goal being to help staff and the committee prioritize RFPs, budget and contracts for the type/s of legal services for which the District has the greatest need. The committee asked staff to consider these issues and revert to the committee at the next meeting with its assessment.

#### 4.c Internship/Apprenticeship program

Public Comment: Suzanne Schettler spoke in support of an internship program, specifically to support the removal of invasive broom at the District’s well field. Ms. Schettler noted that there is \$20K budgeted for this - or related - activity which could be put toward an internship program. Ms. Schettler also mentioned that she had been contacted by an eager and qualified college student seeking summer opportunities.

The committee heard a brief update from District Manager Lee regarding a regional multi-district collaborative effort to create an internship program whereby one district may act as the lead, but all participating districts would contribute to and benefit from a shared pool of intern resources. This is looking like it will be formed in the spring/early summer, although the timing for actually placing interns into internships is not clear - possibly later than this summer. District Manager Lee made it clear that although this is a wonderful program idea that the District will surely benefit from, staff bandwidth right now is very limited and everyone is working at full-capacity. Doing the ‘extra’ to set up and manage internships would be a stretch at this time.

The members of the Committee look forward to further updates on the formation of this multi-agency internship collaboration. Further, the committee asked District Manager Lee to consider using some of the budgeted \$20K to help establish for the District, or with the multi-agency collaboration, an internship program to make use of students who are available during the upcoming summer months.

#### 4.d Legislative/Regulatory Engagement

There was no public comment on this item.

This is a standing item, but there are no specifics to address at this time.

#### 4.e ACWA Article 10 Amendment Initiative

There was no public comment on this item.

Staff noted that ACWA is leading a state-wide effort to amend the state's constitution to enable more flexibility for water districts to provide 'lifeline rates', assess fees and charges related to stormwater management, and to utilize tiered rates. ACWA is evaluating the viability of a legislative approach vs a state-wide ballot initiative. Either way, ACWA is asking for a letter of support for the initiative.

The committee discussed this issue. Committee member Fultz was interested in pursuing non-legislative, non-advocacy paths to accomplishing the objectives noted. District Manager Lee observed that the District is very open to other mechanisms, however, the reason there is proposed legislation is that no District has managed to identify appropriate mechanisms that also pass legal and constitutional muster.

**INFORMATIONAL MATERIAL**- none

#### **ADJOURNMENT**

Chairperson Bruce adjourned the meeting at approximately 12:38pm.

The next Administration Committee meeting will be on April 26<sup>th</sup> at 11am.



# Santa Cruz County water agencies to change inconsistent basin boundaries

By Samantha Clark, *Santa Cruz Sentinel*

POSTED: 03/29/16

SANTA CRUZ >> Under a historical law passed in 2014, water agencies in California must replenish troubled basins by 2040.

But the state and local water managers have different maps that say which basin belongs to which agency. Years ago, the Department of Water Resources separately defined the boundaries for basins that now require management under the new law.

The deadline to correct any inconsistencies is March 31, so Santa Cruz County water agencies are asking the state to modify its boundary designations to match the local designations.

“It just makes it clearer to the state who is managing what. What the state wants is for there to be no unmanaged area and no overlap,” said Mary Bannister, general manager of Pajaro Valley Water Management Agency. “Our jurisdictional boundary will stay the same.”

That means business as normal. The basin boundary proposal wouldn’t change any fees for customers or management practices for water systems within what the local agencies have always defined as their jurisdictions. Some customers were confused by notices of the proposed modifications.

“We’re adjusting all the basin boundaries according to the state because they don’t reflect our understanding of how the basins really work,” said John Ricker, Santa Cruz County Water Resources Division Director. “It’s just basically bringing the basins that the state recognizes in conformance with how we’re managing them locally.”

Multiple basins would be affected by the boundary modifications, including the Pajaro Valley Basin, the Santa Cruz Mid-County Basin and the Santa Margarita Groundwater Basin in the Scotts Valley and San Lorenzo Valley area.

The Scotts Valley Water District and the Santa Cruz Mid-County Groundwater Agency in collaboration with the county have submitted their requests to the state. Public comment on the proposal must be submitted by April 23 at [sgma.water.ca.gov/basinmod/request/comments/27](http://sgma.water.ca.gov/basinmod/request/comments/27) for Mid-County and [sgma.water.ca.gov/basinmod/request/comments/14](http://sgma.water.ca.gov/basinmod/request/comments/14) for Scotts Valley.

PV Water’s board will vote to do the same Wednesday. After the Department of Water Resources deems the request complete, the agency has five working days to notify

customers within the affected basins during a 30-day public comment period. The state will take input online at [sgma.water.ca.gov/basinmod/request/comments/49](http://sgma.water.ca.gov/basinmod/request/comments/49).

The state marked 21 groundwater basins as “critically over drafted.” While most of them are in the Central Valley, three are local in the Pajaro, Soquel and Salinas areas.