



BOARD OF DIRECTORS
SAN LORENZO VALLEY WATER DISTRICT
AGENDA
MAY 2, 2019

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

Notice is hereby given that a meeting of the Board of Directors of the San Lorenzo Valley Water District will be held on **Thursday, May 2, 2019 at 5:30 p.m.**, SLVWD, 13057 Highway 9, Boulder Creek, CA 95006.

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

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

1. Convene Meeting/Roll Call

2. Additions and Deletions to Closed Session Agenda:

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

3. Oral Communications Regarding Items in Closed Session:

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

4. Adjournment to Closed Session

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

- a. CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION
Government Code Section 54956.9(d)(1)
Holloway v. Showcase Realty Agents, Inc. et al.
(Santa Cruz Superior Court Case No. CV180394; 6th District Court of Appeal Case Nos. H044505, H044800).
- b. CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION
Government Code Section 54956.9(d)(1)
Vierra v. San Lorenzo Valley Water District, et al.
(Santa Cruz Superior Court Case No. 18CV00890)

Closed Session Note:

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

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

6. Report of Actions Taken in Closed Session

7. Additions and Deletions to Open Session Agenda:

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

8. Oral Communications:

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

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

9. New Business:

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

- a. VACANCY IN AN ELECTIVE OFFICE OF THE BOARD OF DIRECTORS
SAN LORENZO VALLEY WATER DISTRICT
Discussion and possible action by the Board regarding the vacancy in an elective office of the SLVWD Board.
- b. OPERATIONS DEPARTMENT WORKSHOP
Presentation by J. Furtado, Director of Operations on the State of the Department and Plan for the Future.

10. Unfinished Business:

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

- a. UPPER ZAYANTE STREAM WOOD ENHANCEMENT PROJECT
COOPERATIVE AGREEMENT
Discussion and possible action by the Board regarding the stream wood project.
- b. GRAND JURY
Discussion and possible action by the Board regarding the April 18, 2019 letter from the Grand Jury.
- c. BOARD AND PUBLIC MEMBER COMMITTEE ASSIGNMENTS
Discussion and possible action by the Board regarding committee openings and assignments.

11. Consent Agenda:

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

- a. MINUTES FROM BOARD OF DIRECTORS MEETING MARCH 21, 2019
Consideration and possible action by the Board to approve minutes from the March 21, 2019 BoD meeting.
- b. MINUTES FROM BOARD OF DIRECTORS MEETING APRIL 18, 2019
Consideration and possible action by the Board to approve minutes from the April 18, 2019 BoD meeting.

12. Written Communication:

- Letter from J. Ricker-Steelhead Monitoring
- Email from J. Jankovitz-Steelhead Monitoring
- Letter A. Ingham-Steelhead Monitoring
- Letter from C. Berry-Zayante Stream Wood
- Letter from Felton Library Friends
- Letter from J. Ricker-Zayante Stream Wood
- Resignation from J. Wright
- Resignation from J. Gomez
- Email from B. Burt

13. Informational Material: None

14. Adjournment

Certification of Posting

I hereby certify that on April 26, 2019 I posted a copy of the foregoing agenda in the outside display case at the District Office, 13060 Highway 9, Boulder Creek, California, said time being at least 72 hours in advance of the meeting of the Board of Directors of the San Lorenzo Valley Water District (Government Code Section 54954.2).

Executed at Boulder Creek, California on April 26, 2019.

Holly Hossack, District Secretary
San Lorenzo Valley Water District



TO: Board of Directors,
San Lorenzo Valley Water District

FROM: Gina R. Nicholls, District Counsel

DATE: May 2, 2019

RE: Board of Directors Vacancy and Possible Appointment
502665-0001

RECOMMENDATION:

It is recommended that the Board of Directors (“Board”) review the applications received by the District and decide whether to appoint, by a motion of the Board, one of the applicants to fill the remainder of the term of office for the Board seat left vacant by the resignation of Margaret Bruce.

The Board chairperson (usually the President of the Board) may exercise discretion under the District’s Board Policy Manual to conduct the interview process and discussion in a fair and orderly manner. Staff suggests the following:

1. Allow the applicants to introduce themselves (or review the written applications of any applicants who are not present at the meeting);
2. Conduct public oral communications;
3. Conduct Board discussion, allowing each Director to speak at least once before entertaining motions.

BACKGROUND:

By correspondence dated March 26, 2019, Margaret Bruce tendered her resignation from the San Lorenzo Valley Water District Board of Directors, effective immediately as of that date. Ms. Bruce was re-elected most recently in 2016 to a term that expires in December 2020.

Pursuant to California Government Code Section 1780, in the event of a vacancy in any elective office of a governing board of a special district, the remaining board members may fill the vacancy by appointment within sixty (60) days of the effective date of the vacancy. Therefore, the Board must make an appointment to fill the vacancy, if at all, by May 25, 2019.

Pursuant to subdivision (d)(1) of Section 1780, notice of the vacancy must be posted in three or more conspicuous places in the District at least fifteen (15) days prior to the appointment. The District's Board Policy Manual requires establishing a closing date for the receipt of applications for the vacancy, and provides that interviews shall be conducted at the next regular Board meeting following the date of closure of applications. The Board Policy Manual further instructs that the appointment shall be made "without undue delay."

At the Board's direction, posting of the notice of vacancy was accomplished on April 5, 2019, with the notice specifying April 24, 5:00 p.m. as the closing date for receipt of applications. The District received applications from the following seven individuals:

Virgil Champlin
Lew Farris
Elaine Fresco
Beth Hollenbeck
Bryan Largay
Lee Summers
Virginia Wright

STRATEGIC PLAN:

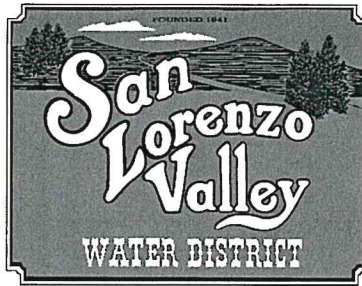
Element 6.0 Public Affairs
Element 9.0 Administrative Management

FISCAL IMPACT:

TBD

ATTACHMENTS:

Attachment 1 - Notice of Vacancy
Attachment 2 - Applications Received by the District



RECEIVED

APR 24 2019

SAN LORENZO VALLEY
WATER DISTRICT

Application for Appointment to Fill a Vacancy on the San Lorenzo Valley Water District Board of Directors

Instructions:

If you are interested in serving as a Director on the San Lorenzo Valley Water District Board, please complete this application and return it to the District Secretary, 13060 Highway, Boulder Creek, CA 95006 or hhossack@slvwd.com.

Due Date is April 24, 2019 by 5:00 pm

Date: April 23, 2019
Name: Virgil Champlin
Address where you live: 11287 Berkeley way
Mailing address (if different): PO Box 901
Phone (daytime): 831-338-4352 Phone (evening): 831-338-4352
Email: champlin@stupidog.org

Statement of Qualifications:

Please complete this section or attach a current resume.

I am a registered voter & resident of the SLVWD.

EDUCATION:

Institution	Major	Degree	Year
CSUH	Political Science	BA	1975

WORK/VOLUNTEER EXPERIENCE:

Organization	City	Position	From	To
Various	Various	Computer Programmer	1980	2016

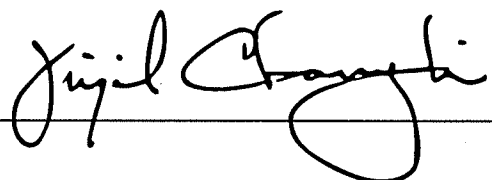
Letter of Interest:

Please briefly describe your qualifications and why you are interested in serving on the Board of Directors.

Please see attachment.

Certification:

I certify that the information contained in this application is true and correct. I authorize the verification of the information in this application.



Signature

April 23, 2019
Date

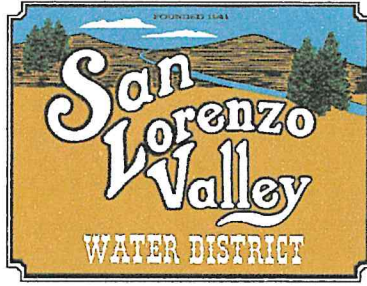
I am not the best candidate for the job. I know nothing about running a business or the process of delivering high quality water to 8,000 people. In that respect, I know better qualified candidates & hope one successfully applies. But one qualification I do have is a visceral understanding of good governance & how important it is for any director of a public agency to be led by that commitment.

One of the most fundamental features of good governance is a commitment to service rather than leadership. It is not about pursuing an ideology after winning power but constantly figuring out what the electorate wants, or needs, & delivering it in accordance with principles & ethics. It is also important to remember that an election is not a plebiscite; just the beginning of another round of listening & debate; where the right thing to do may be different than what you initially wished. I am very pleased to see that members of the recently elected board appear to agree. Even to the point of intellectualizing meetings with informed debate.

But the board is mainly a policy body & should be focused on strategic directions & not heavily involved in management or operations. Give staff guidance & then depend on their competency & expertise. The current board is pretty good about this but I have noticed occasional lapses. It is to be expected but I would constantly caution restraint.

I strongly support the efforts of the current board to set goals of fiscal responsibility, infrastructure improvements & sane reserve policies. I have watched the board regularly & closely for two years & the recent openness brought by the new members is very encouraging. But I am also keenly aware that our authority to govern is democratic and is best described as an inefficient process of thinking, debating & balancing complex differences. I find that to be the exciting part so even though I may not be the best candidate, I might be the least worst.

-virgil



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APR 22 2019

SAN LORENZO VALLEY
WATER DISTRICT

Application for Appointment to Fill a Vacancy on the San Lorenzo Valley Water District Board of Directors

Instructions:

If you are interested in serving as a Director on the San Lorenzo Valley Water District Board, please complete this application and return it to the District Secretary, 13060 Highway, Boulder Creek, CA 95006 or hhossack@slvwd.com.

Due Date is April 24, 2019 by 5:00 pm

Date: 4/22/19

Name: LEW FARRIS

Address where you live: 409 HILLVIEW DR. FELTON CA 95018

Mailing address (if different): _____

Phone (daytime): 831-335-5174 Phone (evening): SAME

Email: LANLCCJL @ CRUZIO.COM

Statement of Qualifications:

Please complete this section or attach a current resume.

SEE ATTACHED

EDUCATION:

Institution	Major	Degree	Year
U. C. IRVINE	CHEMISTRY	BAC DEG	1973

WORK/VOLUNTEER EXPERIENCE:

Organization	City	Position	From	To
S. C. CO. SHERIFFS OFFICE	SANTA CRUZ (HEADQUARTERS)	CORONER STATISTICIAN	6/17	PRESENT
NOTE: VOLUNTEER OF THE YEAR (2018) IN SANTA CRUZ CO.				

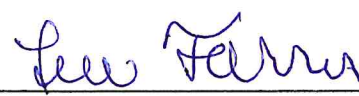
Letter of Interest:

Please briefly describe your qualifications and why you are interested in serving on the Board of Directors.

SEE ATTACHED

Certification:

I certify that the information contained in this application is true and correct. I authorize the verification of the information in this application.


 _____ Date 4/22/19
 Signature Date

Application for appointment to SLVWD BOD

My name is Lew Farris, and I am formally submitting my application for appointment to the vacancy on the SLVWD Board of Directors. As part of my duties in the biotech industry, I have been responsible for designing, acquiring, building, validating, and developing operational procedures for high volume, high quality water for manufacturing plants all over the world (e.g. 3 in the US, 1 in Puerto Rico, one in Ireland, one in Mexico City). Additionally, I was responsible for In Vitro Diagnostic reagent manufacturing using tanks (up to 10,000 L), hundreds of feet of plastic and/or stainless steel piping, and large capacity transfers pumps. Application of standard engineering principles involving fluid mixing, fluid transfer, clean-in-place, and jacketed tanks for temperature control, were a daily task. In 2014, I served for a year on the Citizen Action Committee created by the SLVWD Board of Directors. The CAC was tasked with making recommendations on customer surveys, transparency certification, and other issues leading to a more engaged public. Since then, I have attended many Board of Directors meetings, as well as committee meetings, to seek information and offer recommendations for improvement. I currently serve on the Engineering Committee. Becoming a Board member is a natural progression in offering my services. I believe my degree in Chemistry from UC Irvine, along with my 40+ years of relevant industry experience makes me ideally suited for this position. Thank you in advance for the consideration.

Lew Farris

4/21/2019

Curriculum Vitae

LEWIS A. FARRIS

409 Hillview Dr.

(831-335-5174)

Felton, CA 95018

lanlccjl@cruzio.com

Currently retired

Consultant (internal audits and assisting with ISO 13485:2003), along with contracted 3rd party audits (ABS, Houston, TX)

2009 – 2018

Sr. Medical Lead Auditor and TEAC (Technical Expert Assisting Certification) for TUV Rheinland of NA – lead auditor for IVD, active, and non-active medical devices

2003 – 2009

Medical Auditor for TUV Sud of NA - auditor for IVD, active, and non-active medical devices

2002 – 2003

Operations Director for HemoSense Inc, Milpitas, CA – hand-held blood clotting meter

1999-2001

Manufacturing Director for AeroGen Inc, Sunnyvale, CA – hand-held pulmonary drug delivery devices

1997 -1999

Sr. Manufacturing Services Manager for Dade Behring Diagnostics Inc, Cupertino CA – managed liquid filling, powder filling, packaging, manufacturing engineering, maintenance and plant microbiology departments

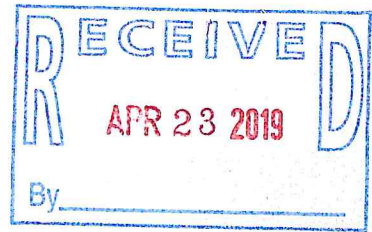
1991 – 1997

Product Support Manager for Sanofi Diagnostics Inc, Chaska MN – managed product support, manufacturing engineering and maintenance departments

1986 – 1991

Beckman Coulter Inc, Brea CA – worked in project management, master scheduling, manufacturing engineering and QA/QC, in support of the ASTRA/STAT product lines

1974 - 1986



Application for Appointment to Fill a Vacancy on the San Lorenzo Valley Water District Board of Directors

Instructions:

If you are interested in serving as a Director on the San Lorenzo Valley Water District Board, please complete this application and return it to the District Secretary, 13060 Highway, Boulder Creek, CA 95006 or hhossack@slvwd.com.

Due Date is April 24, 2019 by 5:00 pm

Date: 4-24-2019
Name: ELAINE FRESCO
Address where you live: 1221 FETHERSTON WAY, FELTON
Mailing address (if different): Same
Phone (daytime): 213-503-8503 Phone (evening): 831-335-0246
Email: ecfresco@gmail.com

Statement of Qualifications:

Please complete this section or attach a current resume.

See attached

I am a retired registered nurse and certified nurse-midwife. I have a strong interest in the environment: native plants and wildlife, gardening for pollinators, rain catchment, hot composting, vermicomposting, and our local water supply.

I would like to serve as a SLVWD director because I think our water district is an incredible asset and want to protect it. Water is essential to our lives, our health, our livelihood, our environment, and our property values. The decisions that this water board makes will affect generations to come, either leaving them with a well-managed, well-maintained sustainable source of water or leaving them with the opposite - a run-down infrastructure, fish depleted streams, and a fire-prone unhealthy watershed.

My beliefs and qualifications:

I was recently accepted to serve on the Environmental Committee of this water board. I have also been attending many of the general meetings so that I am becoming familiar with the current board, the issues being discussed, and the ways to discuss them, i.e. the Brown Act.

I have no conflicts of interest. No contractors or companies will profit by my appointment. Hopefully, the owners of the watershed (all of us) will profit through good management practices. I'm not planning to use this position as a stepping stone to other government positions.

I believe that in order to protect our source of water, we need to protect our watershed. I believe that it our duty to protect the sand dunes, to rid the watershed of French broom, and to protect our forests, fish and other wildlife.

I believe in science, evidence, and expert opinion. The water district is complex. We need to make informed decisions. It is important to be open to new information and ideas.

I don't believe in making promises that can't be kept. If there is a drought and people use less water, there will be less money collected

by the water district even when maintenance costs remain the same. It is foolish to lead people to expect that their rates would come down in this situation.

I know how to get along with other people who disagree with me. Next month I will celebrate my 50th wedding anniversary, which says something about my ability to work out the misunderstandings that inevitably happen between people.

I think that the current staff of the SLVWD is excellent and needs appreciation and support.

I am thrifty but I don't believe in being penny-wise and pound foolish. I know that it is getting harder for some people in the San Lorenzo Valley to make ends meet. I think we need to find a way to help those people. The solution is not indiscriminate cost cutting. We need to be financially prudent and smart about what we spend and what we save. We must not degrade our water system in an attempt keep water costs low. This would be a short term fix with dire long term consequences.

Most importantly I believe that our water supply should not be privatized. I don't want a corporation to own our source of water — cutting costs and services to increase profits. Our water district should be beholden to the residents and rate payers of San Lorenzo Valley, not to the desires of outside shareholders.

Thank you for your consideration,
Elaine Fresco

EDUCATION:

UCSC (Santa Cruz)	premed	-	1965-1967
Mt St Mary's College (Los Angeles)	nursing	B.S. in Nursing	1969-1971
Univ of Mississippi Med School	midwifery	Certificate	1974-1976
UCLA Business School	accounting classes		1990

WORK EXPERIENCE

Registered Nurse at Orthopedic Hospital and USC	1971-1974
Staff Nurse Midwife at Grady Memorial Hospital	1976-1977 1978-1988
founder of Home Birth Service of L.A.	
Consultant for Birth Center Mission Comm. Hosp	1997-1998
OB/GYN Nurse Practitioner	1999-2003

Community Involvement:

Volunteer, Planned Parenthood Speaker
Friends of Felton Library
Supporter, Land Trust of Santa Cruz

I certify that the information contained in this application is true and correct. I authorize the verification of the information in this application.

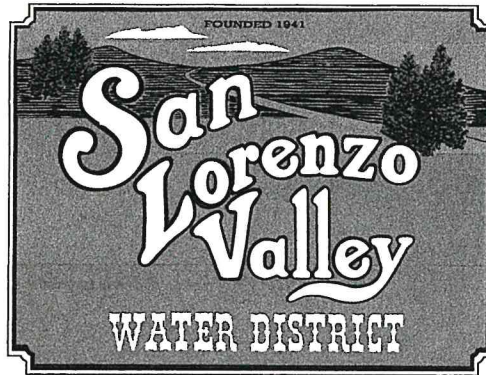
Elaine Fresco

April 24, 2019

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APR 18 2019

SAN LORENZO VALLEY
WATER DISTRICT



Application for Appointment to Fill a Vacancy on the San Lorenzo Valley Water District Board of Directors

Instructions:

If you are interested in serving as a Director on the San Lorenzo Valley Water District Board, please complete this application and return it to the District Secretary, 13060 Highway, Boulder Creek, CA 95006 or hhossack@slvwd.com.

Due Date is April 24, 2019 by 5:00 pm

Date: 4/10/19

Name: Beth Hollenbeck

Address where you live: 491 Fall Creek Drive, Felton, CA 95018

Mailing address (if different): Same

Phone (daytime): 831-818-2674

Phone (evening): Same

Email: hollenbeckglaciermusic@gmail.com

Statement of Qualifications:

Please complete this section or attach a current resume.

*See resume.

EDUCATION: *See resume

WORK/VOLUNTEER EXPERIENCE: *See resume

Letter of Interest:

Please briefly describe your qualifications and why you are interested in serving on the Board of Directors.

I have served on several boards and committees in both the San Lorenzo Valley and Scotts Valley. I have an understanding of the protocol and ethics required for public service. I was born and raised in Felton and have a strong dedication to my community. I was Vice-President of the SLV Chamber Board of Directors for seven years, as well as taught in the San Lorenzo Valley School District for four years. I have good connections to families and businesses in our valley and would be honored to serve them on the SLV Water Board of Directors to ensure the proper maintenance and quality of their water.

Please read the summary in my resume for an overview of my work with our rivers.

Certification:

I certify that the information contained in this application is true and correct. I authorize the verification of the information in this application.

Beth Hollenbeck 4/17/19

Signature Date

Beth Hollenbeck

491 Fall Creek Drive
Felton, California 95018

Home: 831-818-2674
hollenbeckglaciersmusic@gmail.com

Summary

I have been an active member of the San Lorenzo Valley all my life. I was born and raised in Felton and graduated from San Lorenzo Valley High School. In 2006 I was a co-founder of San Lorenzo Valley Citizens Organized for Responsible Ecology (SLV CORE) to oversee the balance of nature and development in our valley. In 2007 I graduated from Leadership Santa Cruz County (LSCC), a program providing classes that focus on "different essential governmental components of our community". After LSCC, SLV CORE partnered with fellow LSCC classmate Laura Kasa from Save Our Shores (SOS) to bring the SOS river clean-up to the San Lorenzo Valley's riparian corridor at the Felton Covered Bridge. I was very concerned with our water being contaminated by waste around that area. The first year we collected over 2000 lbs of garbage along the rivers. We continued our efforts with SOS every year until we turned it over to the Valley Women's Club in 2015.

I served as vice-president of the SLV Chamber of Commerce for seven years. In that time I organized local job fairs for our community, reinstated the chamber's annual awards dinner, created the Felton Covered Bridge Holiday Mart and partnered with Food Trucks A Go Go to bring Taco Tuesdays up into the valley.

I am committed to the well-being of my community and enjoy serving in an effort to maintain our unique and precious environment.

Skills

- Excellent communication
- Change management
- Quick learner
- Results-oriented

Experience

Music Educator, 08/2010 — Current

Scotts Valley Unified School District — Scotts Valley, CA

- Responsible for building a music program in the district. In addition to directing band and choir classes, created and implemented a recording arts class through the county Regional Occupational Program (ROP), now known as Career Technical Education (CTE).
- Wrote and received grants for recording arts technology. Received a GRAMMY Foundation Award for implementing and articulating coursework with the local college.
- Grew the music program from 90 students to 170 students over the course of eight years.
- Established partnerships with local organizations (i.e. Kiwanis) to raise funds for the music program.

Music Educator, 05/2003 — 06/2007

San Lorenzo Valley School District — Felton, CA

- Hired to re-establish the district music program. Reinstated the band feed-in program from elementary school through high school.
- Oversaw the implementation of teachers into the elementary schools and restructuring of music classes and coursework.
- Worked with the District Arts Team to create the District Arts Plan, adopted by the school board.
- Advocated and successfully helped to pass the bond to remodel the high school's performing arts center and band and choir room.

Education and Training

2007 Bethany University — Scotts Valley, CA

Master of Arts Teaching

1986 University of California Santa Barbara — Santa Barbara, CA

Bachelor of Arts Music

Activities and Honors

Scotts Valley District Arts Committee (2017-present)
San Lorenzo Valley Chamber Board of Directors (2012-present)
Congresswoman Anna Eshoo Congressional Recognition (2017)
Scotts Valley Chamber Educator of the Year (2014)
Graduate Leadership Santa Cruz County (2007)
Bethany University Honors Graduate (2007)

Websites, Portfolios, Profiles

- <https://slvcore.wordpress.com/>
- https://en.wikipedia.org/wiki/Elisabeth_Carlisle-Hollenbeck
- <https://www.linkedin.com/in/beth-carlisle-hollenbeck-24022221/>

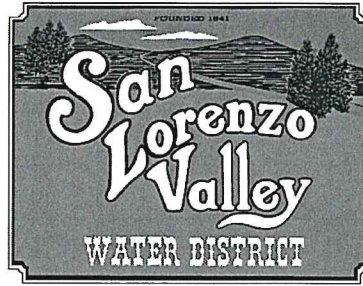
Certifications

- California Teaching Credential Single Subject Music
- Career Technical Designated Subject Arts, Media and Entertainment

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APR 24 2019

SAN LORENZO VALLEY
WATER DISTRICT



Application for Appointment to Fill a Vacancy on the San Lorenzo Valley Water District Board of Directors

Instructions:

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Due Date is April 24, 2019 by 5:00 pm

Date: 4/24/18

Name: Bryan Largay

Address where you live: 160 Farmer St
Felton CA 95018

Mailing address (if different): _____

Phone (daytime): 831-234-1177 Phone (evening): 831-234-1177

Email: bryan.largay@gmail.com

Statement of Qualifications:

Please complete this section or attach a current resume.

BRYAN G. LARGAY

Conservation Director, Land Trust of Santa Cruz County

(831) 234-1177

bryan.largay@LandTrustSantaCruz.org

Mr. Largay brings a wealth of experience to the conservation community of the California Central Coast, stemming from 20 years of work in collaborative, science-based environmental management. His career has emphasized water resources, agriculture, and high value habitats. He focuses on removing barriers to advance natural resource management goals with a broad array of partners, including landowners, scientists, planners, engineers, consultants and businesspeople. He has managed large and small teams, conducted technical investigations, and led planning processes, restoration projects, and efforts to encourage conservation through education.

EDUCATION

University of California at Davis. M.S. Hydrologic Sciences. Department of Land, Air and Water Resources, 1998.

Thesis: Groundwater and stormwater hydrology and water quality in a series of coastal wetlands.

University of California at Santa Cruz. Studies in physical and biological sciences, 1994-1995.

Princeton University. A.B. English Literature, 1992.

Workshop and conference training: California red legged frog habitat management; California tiger salamander habitat management; wetland determination; wetland restoration; fluvial geomorphology; watershed assessment; watershed restoration; culvert design and steelhead passage; California native grasses; rural road sediment assessment and management; invasive plant management; recreational trail design and management; meeting facilitation; conflict resolution.

PROFESSIONAL EXPERIENCE

Conservation Director. Land Trust of Santa Cruz County. 2012 to present

Mr. Largay oversees the Stewardship Department, a team of six staff which provide management services affecting 14,000 acres of conservation land. He oversees an annual budget of \$1.5 million, including various ecological restoration, water quality protection, working lands, and public access projects. He provides scientific support to the acquisition and communication teams. He oversees planning projects related to restoration and public access with extensive stakeholder and community engagement components.

Director, Tidal Wetland Project. Elkhorn Slough National Estuarine Research Reserve. 2007 to 2012

Mr. Largay directed the Elkhorn Slough Tidal Wetland Project, a science and community-based planning process to sustain coastal wetlands in the face of cumulative impacts. He collaborated with teams of researchers, communicated findings to stakeholders, and managed advisory panel decision processes. Themes included community engagement, conservation planning, wetland restoration, nonpoint source pollution management, and adaptation to climate change. Mr. Largay led the preparation of successful proposals for \$11 million in competitive grants, including \$6.5 million to implement large scale wetland restoration projects.

BRYAN LARGAY

California Rapid Assessment Method for Seasonal Estuaries. Moss Landing Marine Labs. Technical Advisory Team Member. 2009-2014.

Watsonville Sloughs Hydrologic Study. Technical Advisory Team Member. 2012-2014.

Assembly Member Bill Monning Environmental Breakfast. Invited Participant. 2009-present.

Greater Monterey County Integrated Water Management Group. Representative of the Elkhorn Slough National Estuarine Research Reserve. 2009-2012.

Salinas Lagoon Enhancement Meetings. National Marine Fisheries Service. Advisory Team Member. 2010-2012.

Moro Cojo Slough Restoration. Central Coast Wetlands Group. Technical Advisory Committee Member. 2007-2009, 2011-present.

Coastal Watershed Council. Associate Board Member and Technical Adviser. Santa Cruz, CA. 2003-2009.

Central Coast Food Safety Work Group. Natural Resources Conservation Service and the Regional Water Quality Control Board. Technical Advisory Committee Member. 2004-2006.

Reclamation Ditch Watershed Assessment. Monterey County Water Resources Agency. Technical Advisory Committee Member. 2004-2006.

Watsonville Sloughs Watershed Assessment. Technical Advisory Committee Member. 2000-2002.

CONFERENCE PRESENTATIONS

"Water is for Collaborating Over", California Land Conservation Conference. Sacramento CA, March 2012.

"The Tidal Wetland Project", West Coast Ecosystem Based Management Network Annual Meeting. Arcata CA, September 2011.

"Treatment of Nitrate at the Edge of Vegetable Farms," University of California Cooperative Extension Field Day, Salinas CA, February 2011.

"Restoration in Elkhorn Slough," Pescadero Steelhead Festival, Pescadero, CA, May 2011.

"Elkhorn Slough Update," Monterey Bay National Marine Sanctuary Advisory Committee, Monterey CA, May 2008 and December 2010.

"Wetland Habitat Conservation through Ecosystem Based Management," California and the World Ocean Conference, San Francisco CA, September 2010.

"Establishing Human and Ecological Goals for Ecosystem Based Management: Applied Case Studies along the West Coast," Coastal Zone Management 2009, Boston CA, July 2009.

"A Time of Decision between Centuries of Change," Monterey Bay National Marine Sanctuary Currents Symposium, Monterey CA, April 2009.

Additional audiences: National Estuarine Research Reserves Annual Meeting, Pacific Grove, CA 2008.

"Treatment Wetlands on the Edge of Vegetable Farms," Monterey County Farm Bureau, Salinas CA, May 2009.

Additional audiences: Society for Ecological Restoration California, Folsom CA, April 2009. Ecofarm, Pacific Grove, CA, January 2008.

"The Elkhorn Slough Tidal Wetland Project: An Ecosystem Based Management Effort," Western Coastal Managers Meeting, San Francisco CA, January 2009.

Additional audiences: Santa Cruz Bird Club, California Native Plant Society – Santa Cruz Chapter, Friends of Hopkins Marine Station, Monterey Bay Aquarium Volunteer Enrichment Series.

"Setting Goals in the Elkhorn Slough Tidal Wetland Project," Central Coast Wetland Working Group Science Symposium. September 2008.

Application for Appointment to Fill a Vacancy on the San Lorenzo Valley Water District Board of Directors

Instructions:

If you are interested in serving as a Director on the San Lorenzo Valley Water District Board, please complete this application and return it to the District Secretary, 13060 Highway, Boulder Creek, CA 95006 or hhossack@slvwd.com.

RECEIVED

APR 21 2019

SAN LORENZO VALLEY
WATER DISTRICT

Due Date is April 24, 2019 by 5:00 pm

Date: 4/22/19
 Name: Lee Summers
 Address where you live: 14616 West Park Ave. Boulder Creek, CA 95006
 Mailing address (if different): PO Box 31, Boulder Creek, CA 95006
 Phone (daytime): 831-338-3234 Phone (evening): Same
 Email: lasummers123@gmail.com

Statement of Qualifications:

Please complete this section or attach a current resume.

See attached resume...

EDUCATION:

Institution	Major	Degree	Year
Humboldt State University	Natural Resources Interpretation	B.S.	1984
CSU Chico	Education	Multiple Subjects Teaching Credential	1990

WORK/VOLUNTEER EXPERIENCE:

Organization	City	Position	From	To
See attached resume				

Letter of Interest:

Please briefly describe your qualifications and why you are interested in serving on the Board of Directors.

I have been living in the San Lorenzo Valley for 23 years and have been a direct customer of the water district for the last 17 years. I have always enjoyed volunteering in my community. Having retired 2 ½ years ago, I am interested in learning more and getting involved with the water district.

Through my 35 years of work, I've gained a variety of experience that I think would be useful to SLVWD. As an environmental educator, I had to translate environmental issues into a language that the public could understand. To do this required me to know my audience, listen to their questions and concerns, and explain answers in a way that they could appreciate. I also learned to operate a park budget on fiscal shoestrings by being organized and paying attention to details.

I strive toward a politically moderate stance. To that end, I am liberal toward social programs, especially the environment and education. Yet I see myself as a fiscal conservative, believing that you must first have money in order to spend it. I have been attending the general board meetings since January to understand for myself how the district operates and where it is going, and I am beginning to see the current board's direction and motivation. Your interest in reducing spending aligns to a certain degree with my fiscal philosophy. And I believe that my environmental and education experience would help balance the board toward what the rate-payers want and need: clean water, processed through an efficient infrastructure, at an affordable rate.

To that end, we agree. And I look forward to the opportunity to join the board of directors in the pursuit of a healthy watershed, operational efficiency, and forward-thinking perspectives.

Certification:

I certify that the information contained in this application is true and correct. I authorize the verification of the information in this application.

Lee Summers
Signature

4/22/19
Date

LEE SUMMERS

PROFILE

I am a retired interpreter and educator with 35 years of experience working primarily in park agencies. My responsibility, organizational skills, creative abilities, and positive rapport with people of all ages make me a valuable member of any organization.

EXPERIENCE

PARK INTERPRETER, QUAIL HOLLOW RANCH COUNTY PARK, FELTON, CA 2000-2016

Developed and performed public interpretive programs. Recruited, trained and coordinated docents and volunteers. Developed interpretive displays in visitor center. Published volunteer newsletters and docent manual. Coordinated natural resource and trail maintenance projects. Networked with public agencies and non-profit groups.

EDUCATION COMMISSIONER, SAN LORENZO VALLEY WATER DISTRICT BOULDER CREEK, CA 2015-2018

Reviewed grant proposals for education and resource projects. Made recommendation to the board of directors.

COURT APPOINTED SPECIAL ADVOCATE (CASA) VOLUNTEER WATSONVILLE, CA 2003-2009

Advocated for services for two children in foster care. Visited weekly. Wrote court reports and attended closed hearings.

GUIDE 1, MONTEREY STATE HISTORIC PARK MONTEREY, CA 1999-2000

Developed and performed historic interpretive programs for the general public and school groups.

INTERPRETIVE SPECIALIST, WILDER RANCH & NATURAL BRIDGES STATE PARKS SANTA CRUZ, CA 1994-1999

Developed and performed interpretive programs. Coordinated docents at Wilder Ranch and assisted with the Natural Bridges docent program. Organized special events. Developed and wrote teacher packets and docent manual sections.

LEAVE REPLACEMENT TEACHER, TAHOE-TRUCKEE UNIFIED SCHOOL DISTRICT TRUCKEE, CA 1993-1994

Planned and taught lessons in all curricular areas in bilingual kindergarten and 5th grade classes.

ENVIRONMENTAL EDUCATION SPECIALIST, US PEACE CORP ECUADOR, SOUTH AMERICA 1991-1993

Taught environmental education lessons in Spanish to grades 1-6. Wrote and illustrated a tropical forest curriculum in Spanish. Organized environmental education workshops for teachers.

EDUCATION

Humboldt State University, Arcata, CA - Bachelor of Science in Natural Resources Interpretation, 1984
CSU Chico, Chico, CA - Multiple Subjects Teaching Credential, 1990 (expired)



Application for Appointment to Fill a Vacancy on the San Lorenzo Valley Water District Board of Directors

Instructions: If you are interested in serving as a Director on the San Lorenzo Valley Water District Board, please complete this application and return it to the District Secretary, 13060 Highway, Boulder Creek, CA 95006 or hhossack@slvwd.com.

Due Date is April 24, 2019 by 5:00 pm

Date: April 24, 2019
Name: Virginia Wright
Address where you live: 258 Circle Drive, Felton, CA 95018
Mailing address (if different): N/A
Phone (daytime): 831 234-4491 Phone (evening): N/A
Email: vawright@aol.com

Statement of Qualifications

Please see attached resume

Letter of Interest

Please briefly describe your qualifications and why you are interested in serving on the Board of Directors.

I am interested in serving on the Board of the San Lorenzo Valley Water District to help bring contemporary public management expertise to the community I love. I understand budgets, staff and volunteer management, and the importance and details of ensuring the public's role in planning. I would like to see the SLV Water District be held up as an example of positive leadership and good will.

My professional management roles have included executive and fundraising positions with Santa Cruz and San Jose-based non-profit organizations. I have an MBA from Santa Clara University and am a Certified Fund Raising Executive. In my consulting business I have provided cultural and public art plans for local government agencies and nonprofit planning organizations. I have facilitated dozens of strategic fundraising and marketing plans for non-profit organizations, and have served on a number of Boards of Directors.

My most recent employment was with Community Bridges which operates Mountain Community Resources in Felton, along with 9 other agencies including Lift Line, Meals on Wheels, and others. As the Director of Development, I deepened my knowledge of the local philanthropic community.

I have lived in the San Lorenzo Valley continuously for 27 years, and lived in Boulder Creek after my parents, David and Shirlee Byrd, moved here in the 1980s. My family has always been a very active part of the community. I recently started a consulting practice and am looking for a way to give back to my community in a meaningful way. I would like to help make our SLV Water District an agency of which we can all be proud.

VIRGINIA ANN WRIGHT, MBA, CFRE

258 Circle Drive, Felton CA 95018 • 831-234-4491 • wright.va.a@gmail.com • linkedin.com/in/virginiaannwright

SUMMARY

- Nonprofit professional with a Master's Degree and over 25 years' experience in the field including management, strategic planning, consulting, and cultural change
- Extensive background and passion for understanding an organization's needs and providing the leadership necessary to empower organizations to reach their goals
- Demonstrated success in development through a comprehensive understanding of fundraising approaches, and understanding of organizational development

CRITICAL COMPETENCIES

Strategic and Annual Planning • Major Gifts Solicitation • Events Management • Financial Analysis • Team Building and Leadership • Cultural Community Planning • Marketing and Branding • Project Budgeting • Direct Response • Development Infrastructure • Grants Management • Encouraging the Heart

PROFESSIONAL EXPERIENCE

Principal Wright Consulting, Santa Cruz, CA • 1997 to Current

Provides a variety of strategic, marketing and business planning services to nonprofit organizations, and offers cultural planning and market research services to governments, foundations and local arts agencies. Partial client list: Brewery Arts Center, Carson City • Chamber Music Monterey Bay • City of Dublin • City of Gilroy • City of San Jose • City of Santa Cruz • City of Stockton • Community Foundation Silicon Valley • Cultural Initiatives Silicon Valley • Firebird Youth Chinese Orchestra • MAPS • Mexican Heritage Corporation • Mission Chamber Orchestra • Mountain Parks Foundation • Museum of Art and History • San Jose Multicultural Artists Guild • Santa Cruz Ballet Theater • Santa Cruz Film Festival • Shri Krupa Dance Company • Silicon Valley Ballet • William James Association, Prison Arts Project.

Director of Development, Community Bridges, Watsonville, CA • September 2017 to March 2019

In collaboration with the CEO and 9 program directors secured \$2 million annually from three Galas, major and annual giving campaigns, foundation grants and business sponsorships. Managed agency marketing and communications.

- Facilitated a strategic visioning process to restate mission, vision and first-time organizational values.
- Updated fundraising policies, procedures, board handbook, and board giving plan. Upgraded CRM.
- Identified grants and events sponsorships as highest potential revenue sources. Doubled net revenue at 2 major events. Secured 7 new and lapsed grants, increasing grant revenue by \$241,549, with five applications currently outstanding (3/27).

Major Gifts Officer, San Francisco Bay Area Compassion & Choices, Denver, CO • Feb 2016 – May 2017

Major gifts officer with a portfolio of 150+ individuals and foundations. Research, solicit and secure gifts of \$5,000+ for a \$18-million dollar education and advocacy organization working to bring choice and comfort to the end of life. Managed special cultivation and fundraising events, including the San Francisco Empowerment Luncheon for 200, raising \$135,000. Served on the Diversity & Inclusion Committee.

Director of Development MAPS, Santa Cruz, CA • Sept 2011–Sept 2015

Hired as MAPS first Development Director to lead fundraising for a fast-growing medical research and education non-profit. During my tenure, core (non-bequest) contributed revenue doubled to \$2.3 million, and number of donors increased 50%.

- Led process to clarify and restate mission, vision and values.
- Established new fundraising policies and processes. Selected new CRM and managed migration.
- Grew development team from 1½ FTE to 4 FTE. Identified and hired new CFO.
- Grew planned giving program from 19 to 57 participants.
- Worked with the Executive Director to increase major gifts from 40 to 140+, and with Communications Director to increase crowdfunding from \$4,000 to \$144,000.
- Managed 8 – 12 donor cultivation and fundraising events in as many cities annually. In 2013 directed an international conference with 2,000 attendees from 30 countries netting over \$100,000.

Workshop Leader, Securing Grants from Public Agencies, City of San Jose —2009/2010

Working Group Member, City of Santa Cruz Cultural Plan—2007/2008

Board Member, Pajaro Valley Performing Arts Association, Watsonville—2005 to 2007

Co-Chair, Cultural Council Associates—2004 to 2007

Board Member, Cultural Council Santa Cruz County—2005/06

Education and Certifications

- Certified Fund Raising Executive (CFRE), August 2018.
- Master in Business Administration (MBA), Santa Clara University.
- Bachelor of Arts, Magna Cum Laude. San Francisco State University. Graduated with Department Honor in International Relations. Studied Russian in the Soviet Union.

San Lorenzo Valley Water District Operations Presentation

Operations Organizational Chart

Breakdown and explanation

Operations Budget 18/19

Breakdown and explanation

Systems Felton SLVWD and North / South SLVWD

How many connections in each system

Area covered in each system

Treatment Plants

Number of plants

Number and age of Filters in each plant

Filter Rehabs needed

Tanks

Number of tanks: total, steel total, redwood total, poly total

Deferred maintenance on steel tanks, how many we need to do a year recoating to catch up to avoid replacement

Deteriorating redwood tanks

Booster Pump Stations

Number of Booster Stations: total, total block buildings, total wood buildings, total that need replacement, total with standby generators, total needing standby generators

Surface Sources

How many and map of where

Total days violating Fall Creek permit 2009 to current

Wells

Total Wells, Rehab of Wells, new Wells, age of Wells

Programs

Valve exercising

Meter change out

Quarterly Tank inspections

Weekly, monthly, and annual sampling / and what types of sampling

Annual State System Inspections 2 due to two different systems

Number of Leaks 2017, 2018, and 2019 to current

USA 811 Utility Locates

Environmental cost on construction projects

System modeling

What it will tell us and how important this is to the District

Fire flow, tank turnover, importance of sites

Production

Surface source amounts and Well amounts 2017, 2018, and 2019 thus far

Financial situation in the past and how the rate structure now is going to benefit all the deferred maintenance in the past

MEMO

TO: Board of Directors

From: District Manager

Prepared by: Environmental Programs Manager

SUBJECT: Upper Zayante Stream Wood Enhancement Project Cooperative Agreement

DATE: May 2, 2019

RECOMMENDATION:

It is recommended:

1. That the Board of Directors review this memo and discuss the Upper Zayante Stream Wood Enhancement Project with the Resource Conservation District. <http://www.rcdsantacruz.org>
2. Authorize the District Manager to sign the Cooperative Agreement to proceed with the Upper Zayante Stream Wood Enhancement Project.

BACKGROUND

In the 2012 Coho Recovery Plan, the National Marine Fisheries Service (NOAA Fisheries) identified the Zayante Creek subwatershed as a Core Area (highest priority) for coho recovery. In 2014, the County of Santa Cruz partnered with the RCDSCC and the Watershed Stewards Project to study current conditions in the Zayante Creek subwatershed and to look for potential restoration projects. During these surveys, the City and SLVWD properties were identified as potential stream reaches for restoration. Lack of large wood material was identified as a key limiting factor for both steelhead and coho salmon. These areas are upstream of most of the residential development along much of Zayante Creek which restricts stream processes.

The Upper Zayante Stream Wood Enhancement Project (“**Project**”) focuses on habitat enhancement measures on publicly held properties, owned by the City and the SLVWD, with the objective of developing cost-effective restoration actions that attempt to restore historic functions that created and maintained the physical habitat necessary to support key life stages for these listed species. The project also aims to enhance water quality by sorting and filtering sediment. The design process to date has included technical review, site visits, and collaboration with the City, SLVWD, the City’s consulting forester, County of Santa Cruz, RCDSCC, National Marine Fisheries Service, and California Department of Fish and Wildlife.

October 2, 2014 your Board authorized the Upper Zayante Stream Wood Enhancement Project to take place on District property located on Upper East Zayante Road, Felton California. Since then the District has submitted Letters of Commitment and Support to the Regional Water Quality Control Board as part of a grant application to fund the Upper Zayante Stream Wood Enhancement Project. In October 18, 2018 the Board authorized the Access Agreement with the Resource Conservation District

of Santa Cruz County to provide access to the District's property on Upper Zayante for the installation of large wood in the stream to enhance habitat for threatened and endangered salmonid species.

The proposed project builds on previous efforts, including stream surveys conducted in 2014, and the installation of 15 in-creek habitat structures completed in 1994 on a City of Santa Cruz property. The Project was identified as a high priority through the San Lorenzo River 2025 partnership in conjunction with the county-wide Integrated Watershed Restoration Program (IWRP). The Coastal Conservancy has provided a grant to fund the design and permitting phase of the Project, and the State Water Quality Control Board is providing grant funding for project implementation

The San Lorenzo Valley Water District owns about 0.5 mile of Zayante Creek upstream of the Mountain Charlie Gulch confluence. This stream reach has the potential to serve as extremely valuable spawning and rearing habitat for both steelhead and Coho salmon. With the District's ownership, this reach is not impacted by residential development, which is prevalent in lower Zayante Creek, and is down stream of multiple obstructions that limit steelhead access into upper Zayante Creek.

This project provides multiple benefits that align with the shared values and missions of the partnering entities, including the SLVWD, City of Santa Cruz, RCD of Santa Cruz County, County of Santa Cruz, CDFW, NMFS, and the State Water Quality Control Board. Specifically, this project aligns with the mission of the SLVWD to "provide our customers and all future generations with reliable, safe, and high quality water at an equitable price...[and] to manage and protect the health of the aquifers and watersheds..." This project also supports the SLVWD Watershed Management Plan (2010) and the goals, objectives, and policies stated therein to "manage district lands to protect and enhance ecosystem health and water quality," "protect, preserve, and where possible enhance and restore significant aquatic resources on district lands," and "restore large woody material in streams to enhance fish habitat."

Timeline:

1. October 2, 2014: The Board permission for the project to take place on District property.
2. July 2018: Resource Conservation District received a grant from State Water Resources Control Board for the Upper Zayante Creek Stream Wood Enhancement Project, and are in the process of mobilizing to begin work.
3. October 25, 2018 District executed Access Agreement.
4. 2019: District to enter into cooperative agreement associated with permitting and implementation of the project.
5. 2018-19: Acquire Permits from State and Federal agencies, under the direction of the RCD.
6. Summer 2019: Upper Zayante Stream Wood Enhancement Project Installation Scheduled.

2015 STRATEGIC PLAN:

Strategic Element 2.0 – Watershed Stewardship

FISCAL IMPACT:

Cost: \$0 Grant Funded 100%

COOPERATOR AGREEMENT

TERMS OF ASSISTANCE AND NOTIFICATION REGARDING THE PROCEDURES FOR CONFORMANCE WITH MULTIPLE PERMITS

between the
UNITED STATES DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE
and the
RESOURCE CONSERVATION DISTRICT OF SANTA CRUZ COUNTY
and the following Cooperator(s):

Property Owner: _____ Address: _____

Property Owner: _____ Address: _____

Contractor: _____ Address: _____
_____ Zip: _____

Property Location: _____ (the "Property")
(Assessor's Parcel Number, street address, or narrative description: see attached map)

USDA Tract #: _____ Photo No: _____ Quad Sheet: _____

Acres: _____ Major Land Use: _____
(Orchard, Row Crops, Range, Woodland, etc.)

This agreement is freely entered into by the United States Department of Agriculture, Natural Resources Conservation Service (NRCS) and the Santa Cruz County Resource Conservation District (RCDSCC) for the Santa Cruz Countywide Partners in Restoration Permit Coordination Program, referred to hereinafter as the "**Program**", and the "**Cooperator(s)**" identified above.

I. THE PROGRAM AGREES TO AUTHORIZE PROJECTS AND FURNISH INFORMATION, TECHNICAL and/or OTHER ASSISTANCE (as may be available) TO:

1. Help solve conservation problems;
2. Assist in the design, installation and monitoring of appropriate conservation practices,
3. Offer the Cooperators the coverage of multiple permits which provide for the design, installation and monitoring of specified conservation practices under the Program as issued by the public agencies including: Department of the Army, Corps of Engineers; United States Fish and Wildlife Service; National Marine Fisheries Service; California Coastal Commission; California Department of Fish and Game; Regional Water Quality Control Board; and County of Santa Cruz (collectively, the "Permitting Agencies").
4. Provide the Cooperators with information and support from qualified Program staff to answer questions regarding the procedures for the design, installation and monitoring of the conservation practices in terms of the specific protective measures to be followed to avoid or minimize the impacts of projects to natural resources and water quality.
5. Authorize participation of projects that are consistent with the parameters of the Program and to remove projects from the Program if the Cooperators or their agents (e.g. contractors, labor) do not carry out work consistent with the procedures for the design, installation and monitoring of the conservation practices covered by the permits as described under Section III.4 on the following page.

II. IMPLEMENTATION

1. During construction, the RCDSCC and its contractors shall fully conform with the procedures for the design, installation and monitoring of the conservation practices developed by the Program with the Permitting Agencies under their various permitting authorities. These procedures are documented in the project conditions, conservation plan, design and construction and maintenance specifications (collectively, the "Project") provided

to the Cooperators by the NRCS and RCDSCC, which documents are dated and initialed by the Cooperators, NRCS and RCDSCC prior to commencement of construction and shall be part of this Cooperator Agreement. After completion of construction, the RCDSCC and Cooperators agree to fully conform with the project conditions, the conservation plan and maintenance specifications applicable to the Project. The Cooperators agree to take no actions which are inconsistent with the plans and permits issued relating to the Project.

2. The Cooperators agree to allow the NRCS and RCDSCC to include information about the benefits of the project, including photographs, a mid-construction season (Oct. 1) project status report and an annual report provided to the Permitting Agencies.
3. To the best of the Property Owner's knowledge, the Project is taking place on the Property owned and controlled by the Property Owner.
4. The Property Owner has provided the NRCS and RCDSCC with information about all existing easements and other restrictions on their property that could be affected by the proposed Project. If the Property Owner fails to provide this information to the NRCS and RCDSCC, and a conflict with the terms and conditions of any existing easements/restrictions occurs as a result of Project implementation, the Property Owner will be responsible to rectify the situation consistent with the terms and conditions of the easement/restrictions.

III. IT IS AGREED THAT:

1. The Program is not obligated to determine the size and boundary lines of the Property, or any water rights connected to the Property.
2. The Conservation Plan implemented under this Agreement, as part of the Program provides the Cooperators with the authorizations described in the permits checked off below:
 - Master Permit issued by the County of Santa Cruz - complies with the Federal Coastal Zone Management Act, the Santa Cruz County Local Coastal Program (in conjunction with the California Coastal Commission), the California Environmental Quality Act, and the following County ordinances:

County Code Sections:

- 9.70 – Encroachment Permit Regulations
 - 12.10 – Building Regulations
 - 13.10 – Zoning Ordinance
 - 13.20 – Coastal Zone Regulations
 - 16.10 – Geologic Hazards Ordinance
 - 16.20 – Grading Regulations
 - 16.22 – Erosion Control Ordinance
 - 16.24 – Water Quality Control Ordinance
 - 16.30 – Riparian Corridor and Wetlands Protection Ordinance
 - 16.32 – Sensitive Habitat Protection Ordinance
 - 16.34 – Significant Trees Protection Ordinance
 - 16.40 – Native American Cultural Sites Ordinance
 - 16.44 – Paleontological Resource Protection Ordinance
- Regional General Permit with the U.S. Army Corps of Engineers, San Francisco, CA -complies with Section 404 and Section 10 of the Clean Water Act.
 - Water Quality Certification issued by the Regional Water Quality Control Board, Region III, San Luis Obispo, CA - complies with Section 401 of the Clean Water Act.
 - Memorandum of Agreement with the California Department of Fish and Game, Yountville, CA - complies with Section 1602 of the Fish and Game Code when associated Streambed Alteration Agreement is issued by DFG.

- Potential impacts on historic or archeological sites covered by the Programmatic Agreement (PA) between the Advisory Council on Historic Preservation, the National Council of State Historic Preservation Officers and NRCS, Washington, DC - complies with Section 106 of the National Historic Preservation Act.
 - Biological opinions and incidental take statements, issued by the United States Fish and Wildlife Service, Ventura, CA and/or the National Marine Fisheries Service, Santa Rosa, CA - complies with the Federal Endangered Species Act.
3. The RCDSCC or its agents (e.g. contractors, labor) will perform work in compliance with the terms and conditions of the permits checked above, and any additional permits required to be obtained by **a** Cooperator, and the Project. The Cooperators shall not take any action which is inconsistent with the permits and approvals checked above.
 4. If a Cooperator or its agents (e.g. contractors, employees) takes action which is inconsistent with the procedures for the design, installation and monitoring of the conservation practices covered by the permits with the public agencies indicated in #2 above, the Program shall notify the Cooperator and work directly with them to resolve the problem. If the Cooperator still fails to conform, the Program shall notify the Cooperator that their activities are inconsistent with the procedures contained in permits and that the Cooperator's actions are no longer covered by the permits. The Program will revoke authorization for the project and will not reimburse contract funds to Cooperators who install conservation practices in a manner inconsistent with NRCS Project Plans and Specifications and the permits and approvals issued for the Program. Following such revocation, the Program shall have no further responsibility to enforce the conditions and shall not be held responsible as the permittee, and the Cooperators shall be held directly liable for any permit violations and will have to individually obtain all necessary permits and/or rights, and to comply with all law and ordinances.
 5. (a) To the fullest extent allowed by law, the RCDSCC agrees to indemnify, defend and hold harmless the Property Owners and the Permitting Agencies from and against any and all demands, claims, liabilities, losses, or causes of action (including, without limitation, negligence, active or passive), fines, penalties, and expenses (including all costs and attorney's fees) caused by, or arising out of, or in any way connected with the construction of the Project.

(b) To the fullest extent allowed by law, a party to this Agreement (INDEMNIFYING PARTY) shall mutually, at its own expense and the request of another party or parties to this Agreement (individually or collectively, the INDEMNIFIED PARTY), defend, indemnify, and hold harmless the INDEMNIFIED PARTY from any claim, suit, cost, losses, injuries, liability, action damages or expenses of every name, kind and description, including litigation costs and reasonable attorneys' fees incurred (Claims) brought by a third party against the INDEMNIFIED PARTY or its officers, directors, agents, employees, volunteers and representatives which are founded upon, arise out of, pertain to, or relate to, directly or indirectly, in whole or in part, any post-construction services performed under this Agreement, the post-construction negligent performance of this Agreement by INDEMNIFYING PARTY, the post-construction breach of this Agreement by the INDEMNIFYING PARTY or the post-construction gross negligence or willful misconduct by INDEMNIFYING PARTY, or INDEMNIFYING PARTY's officers, agents, employees, volunteers, representatives, contractors and subcontractors.
 6. During the term of this Agreement, NRCS and RCDSCC shall have access over those portions of the Property as reasonably necessary to perform monitoring and any other actions described in the Project to be performed by them.
 7. This Agreement shall bind and inure to the benefit of the respective heirs, personal representatives, assigns and successors in interest of the parties to this Agreement, who shall notify such parties of the existence of this Agreement. The Property Owner shall notify NRCS and RCDSCC if and when the Property is being offered for sale or lease. All notices and other communications under this Agreement shall be in writing, addressed to the parties at the addresses set forth below, and delivered by personal service, or by Federal Express or other overnight delivery service, or by registered or certified mail, postage prepaid, return receipt requested:

Kelli Camara
Resource Conservation District of Santa Cruz County
820 Bay Ave, Suite 136
Capitola, CA 95010

Any such notice shall be deemed delivered as follows: (a) if personally delivered, the date of delivery to the address of the person to receive such notice; (b) if sent by Federal Express or other courier service, the date of delivery to the address of the person to receive such notice; (c) if mailed, three (3) calendar days after depositing same in the mail. Any notice sent by facsimile transmission must be confirmed by personally delivering or mailing a copy of the notice sent by facsimile transmission. Any party may change its address for notice by written notice given to the other at least five (5) calendar days before the effective date of such change in the manner provided in this Section.

8. This Agreement shall become effective on the date of the last signature and shall terminate in accordance with the terms of the Project.
9. This Agreement and any subsequent amendments may be executed in any number of counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.
10. The Property Owner certifies the following easements and/or restrictions affecting the Project site :

Owner(s) initials: _____

COOPERATOR(S):

Property _____

Owner: _____ Date _____

Operator: _____ Date _____

Contractor: _____ Date _____

Santa Cruz County Resource Conservation District Date _____

United States Department of Agriculture,
Natural Resources Conservation Service Date _____

Exhibit A - Description of Property

See attached parcel map/deed

RECORDING REQUESTED BY

WHEN RECORDED MAIL TO

VOL 1341 PAGE 4

Grantee
P.O. Box 447
Felton, Calif.

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Cal. Pac. #65869 bgs

Grant Deed

A. L. JENSEN and KATHLEEN, T. JENSEN, his wife;
GEORGE WALE JR. AND ROSE WALE, his wife; and
JULIA ERRERO, **surviving joint tenant**

Grant to

SAN LORENZO VALLEY COUNTY WATER DISTRICT,
a political subdivision,

the real property situated in the

County

of Santa Cruz

, State of California, described as follows:

VOL 1341 PAGE 6



known to me to be the person whose name are subscribed to the within instrument, and they duly acknowledged to me that executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal, at my office in the County of Alameda, the day and year in this certificate first above written.

Blanks Everett

My Commission Expires July 21, 1967 Notary Public in and for the State of California

Dated: July 25th, 1960

State of California } ss
County of Alameda

— ACKNOWLEDGMENT — General —

On this 2nd day of August A. D. 1960 before me,
ROSE WALE JR. a Notary Public in and for the said
County and State, residing therein, duly commissioned and sworn, personally ap-
peared JULIA ERRERO

known to me to be the person whose name subscribed to the within Instrument, and acknowledged to me that he executed the same.
In Witness Whereof, I have hereunto set my hand and affixed my official seal the day and year in this Certificate first above written.

Blanks Everett
Notary Public in and for said County and State of California

My Commission Expires Name of Notary

AFFILIATED OFFICES

San Francisco

California Pacific Title Insurance Company
148 Montgomery Street, San Francisco
1501 Noriega Street, San Francisco
3540 Geary Boulevard, San Francisco

Santa Clara County

California Pacific Title Insurance Company
66 North First Street, San Jose 13
321 South Monroe Street, San Jose
585 Bryant Street, Palo Alto
168 Main Street, Los Altos
344 South Murphy Avenue, Sunnyvale

Santa Cruz County

California Pacific Title Company
Front at Cooper Street, Santa Cruz
11 Alexander Street, Watsonville

San Joaquin County

California Pacific Title Company,
San Joaquin Division
El Dorado at Lindsay Street, Stockton

San Mateo County

California Pacific Title Insurance Company
2424 Broadway, Redwood City
210 Fifth Avenue, San Mateo
44 Westlake Court, Daly City

Shasta County

North Valley Title and Escrow Company
1301 Court Street, Redding

Sonoma County

Sonoma County Land Title Company
538 Mendocino Avenue, Santa Rosa

PRELIMINARY REPORT

for a

**TITLE INSURANCE
POLICY**

TO BE ISSUED BY

**CALIFORNIA PACIFIC
TITLE INSURANCE
COMPANY**

AND

**TITLE INSURANCE
AND TRUST COMPANY**

ISSUED IN
SANTA CRUZ COUNTY

**CALIFORNIA PACIFIC TITLE
COMPANY**

FRONT AT COOPER STREET
SANTA CRUZ, CALIFORNIA

AFFILIATED OFFICES

Alameda County

California Pacific Title Insurance Company
Fifteenth and Franklin Streets, Oakland
1164 A Street, Hayward

Butte County

Mid Valley Title and Escrow Company
183 East Sixth Street, Chico
1442 Lincoln Street, Oroville

Calaveras County

Calaveras County Title Guaranty Company
Post Office Box 806, San Andreas

Contra Costa County

California Pacific Title Company,
Contra Costa Division
Main at Court Street, Martinez
2566 Macdonald Avenue, Richmond
1950 Mt. Diablo Boulevard, Walnut Creek

Los Angeles County

Title Insurance and Trust Company
433 South Spring Street, Los Angeles

Marin County

California Pacific Title Company,
Marin Division
1200 Lincoln Avenue, San Rafael

Monterey County

Monterey County Title Company
16 West Gabilan Street, Salinas
Pearl at Tyler Street, Monterey

Sacramento County

California Pacific Title Company,
Sacramento Division
801 J Street, Sacramento
2212 K Street, Sacramento
3517 Marconi Avenue, Sacramento

AFFILIATED OFFICES

3211 Marconi Avenue, Sacramento
 5215 K Street, Sacramento
 801 J Street, Sacramento
 Sacramento Division
 California Pacific Title Company
 Sacramento County

North at Tyler Street, Monterey
 Monterey County Title Company
 Monterey County

1700 Lincoln Avenue, San Rafael
 California Pacific Title Company
 Marin Division
 Marin County

400 South Spring Street, Los Angeles
 Title Insurance and Trust Company
 Los Angeles County

2050 Mt. Diablo Boulevard, Walnut Creek
 2300 Macdonald Avenue, Richmond
 Main & Court Street, Martinez
 Contra Costa Division
 California Pacific Title Company
 Contra Costa County

1000 Office Park Blvd, San Antonio
 California County Title Guaranty Company
 Calaveras County

1445 Lincoln Street, Oroville
 183 East First Street, Orton
 1411 Valley Title and Escrow Company
 Butte County

1104 A Street, Hayward
 California Pacific Title Insurance Company
 Alameda County

PRELIMINARY REPORT

AND TRUST COMPANY
 TITLE INSURANCE
 COMPANY
 TITLE INSURANCE
 COMPANY
 TITLE INSURANCE
 COMPANY
 TITLE INSURANCE
 COMPANY

NO. OF ISSUED BY

POLICY

TITLE INSURANCE

for a

CALIFORNIA PACIFIC TITLE COMPANY

By:

R. E. McCarroll

R. E. McCARROLL
Vice-President

IMPORTANT NOTICE

A lender or purchaser for his protection must:

- a. Inquire into the rights or claims of parties in possession, and possible easements or encumbrances not of record.
- b. Examine and determine the exact boundaries and area of the property, the location thereon of improvements, and have a survey made if necessary.
- c. Determine whether there are any lienable claims for labor done or materials furnished.
- d. Determine whether there are any pending proceedings for street or other improvements which may result in liens.
- e. Determine whether there are any zone or set-back ordinance restrictions, or other Governmental regulations affecting the property.

CALIFORNIA PACIFIC TITLE COMPANY

Agenda: 5.2.19
Item: 10a

FRONT AT COOPER STREET
SANTA CRUZ, CALIFORNIA
TELEPHONE GARDEN 3-5272

11 ALEXANDER STREET
WATSONVILLE, CALIFORNIA
TELEPHONE PARKWAY 4-7561

Watsonville,
Santa Cruz, Calif.,

Aug 15 1900

CR 1555

RECEIVED OF

San Lorenzo Valley County Water Dist.

Address

Telephone

*Check #10
AP 100-001*

to be delivered, and the sum of

Seventy five thousand and no/100 \$ *75,000.00*

which is to be disbursed as herein set forth upon delivery, subject to the exceptions and conditions of the California Land Title Association Standard Form of Title Insurance Policy, of

*Covering purchase from A. L. Jensen and
Severely all existing mortgages
in preliminary title report dated
7-17-00 subject to State of Cal. &
per agreement for sublease of
Redwood*

<i>Bill rendered for one-half</i>	Bank Fee	Interest			
<i>of Title Premium and recording</i>	Pro Rata Taxes	Ins.			
<i>due</i>	Notary Fees	Rev. Stamps			
	Recording Deed				
	Recording D. of T. \$	Recon. \$			
	Title Ins.	Report	Escrow Fee		
	Conveyancing	Trustee Fee			
	Balance to				
					\$

Authority to deliver hereunder includes authority to record, and recordation shall be deemed to be delivery.
Tax prorations shall be based on the most recent official information obtainable in the office of the proper taxing authorities.

Approved and Accepted *A. P. Wickerson*

California Pacific Title Company
By *[Signature]*

Payment hereof received for, made by *\$ 75,000.00* Check, \$ _____ Money, \$ _____

DESCRIPTION:

Agenda: 5.2.19
Item: 10a

Purchase price
Pro rata taxes
Title Insurance Premium - 1/2
Recording
Cash

75,000.00
44.38
197.00
4.40

75,000.00

Cash to close

\$ 245.78

Cash Receipt Title

- L LITIGATION
- N NAME RUN
- P PRELIMINARY
- C CHATTEL MORTGAGE
- F FORECLOSURE

PARCEL ONE

93-041-02 + 4 + 7

BEING the West 1/2 of the Southwest 1/4 of Section 30, Township 9, South, Range 1 West, M. D. B. & M., and the West 1/2 of the Northwest 1/4 of Section 31, Township 9 South, Range 1 West, M. D. B. & M.

EXCEPTING therefrom all that portion of said land lying South of Mountain Charley Creek, so called.

ALSO EXCEPTING therefrom the lands described as follows:

(a) PART of the Northwest 1/4 of the Southwest 1/4 of Section 30 T. 9 S., R. 1 W., M. D. B. & M., and more particularly described as follows:

BEGINNING at a driven iron pipe in the property line of the newly located Zayante Road at the junction of said property line and the East side of the old Zayante Road and running North 35° 24' East 132.10 feet along said old road to a driven hub; thence North 59° 49' East 70 feet to the center of Zayante Creek at the Southeast side of a private bridge; thence down the center of Zayante Creek whose meander traverse is as follows: South 38° 52' East 273.00 feet; South 6° 52' West 117.00 feet; South 69° 10' West 167.20 feet; South 20° 50' East 50 feet; thence along the West bank of Zayante Creek, South 3° 00' East 347.50 feet to a 12 inch diameter redwood tree that is blazed on the West side and has a driven iron spike in said blaze; thence South 83° 32' West 26.50 feet to a driven iron pipe in the East property line of Zayante Road and thence along said property line curving left on a 230 foot radius curve for 11 feet; thence North 5° 06' West 223.06 feet; thence curving left on a curve whose radius is 330 feet for 146.80 feet to a driven iron pipe; thence continuing on said 330 foot radius curve for 5 feet; thence North 31° 52' West 97.05 feet; thence curving right on a curve whose radius is 170 feet for 114.5 feet; thence North 5° 30' East 76.40 feet to the point of beginning, and

CONTAINING 2.40 acres, more or less.

(b) BEING a part of Section 31, T. 9 S., R. 1 W., M. D. B. & M., Santa Cruz County, California, and more particularly bounded and described as follows:

BEGINNING at the Section corner common to Sections 25 and 36, T. 9 S., R. 2 W., and Sections 30 and 31 T. 9 S., R. 1 W.; thence from said place of beginning East 404.00 feet to the West property line of the Zayante Road; thence Southerly on a 470 foot radius curve for a distance of 172.50 feet; thence South 15° 03' West 76.50 feet to the center line of said Zayante Creek; and thence down said center line whose meander course is South 51° 04' West 96.00 feet and South 2° 33' East 80.20 feet; thence leaving said creek North 67° 00' West 328.00 feet to the Township line between Section 36, T. 9 S., R. 2 W. and Section 31, T. 9 S., R. 1 W.; thence North 260.00 feet along said township line to the point of beginning and

CONTAINING 2.35 acres, more or less.

(c) BEING the North 484.5 feet of Lot 3 of Section 30, Twp. 9 S. of R. 1 W., M. D. B. & M., according to the official plat of the Survey of said land returned to the General Land Office by the Surveyor General.

(d) BEGINNING at a point in the center line of Mountain Charlie Creek, which point bears due East 541 feet and thence South 13° 45' West 51.0 feet from the 1/4 corner on the West boundary of Section 31, T. 9 S., R. 1 W., M. D. M. and running thence from the said point of beginning North 13° 45' East 230.00 feet to the Southerly line of a 40 foot road to the Semple Ranch; thence along the last named line, Easterly 185.0 feet; thence South 13° 45' West 255.0 feet to the said center

line of the said Creek; thence along the last named line 182.0 feet, more or less, to the point of beginning.

CONTAINING 1.00 acres, more or less.

TOGETHER with and subject to, a right of way for road and utility purposes, of a strip of land 40 feet in width, over the existing road from the County Highway to the fallen bridge over the said Creek.

(e) BEGINNING at a point which bears due East 541.0 feet, and thence North 13° 45' East 100.0 feet from the 1/4 corner on the West boundary of Section 31, T. 9 S., R. 1 W., M. D. M., and running thence from the said point of beginning North 76° 15' West 428.0 feet, more or less, to the Easterly line of the County Highway along Zayante Creek; thence along the last named line, Northerly 200 feet; thence leaving the last named line South 76° 15' East 440 feet, more or less, to a point which bears North 13° 45' East 200.0 feet from the point of beginning, thence South 13° 45' West 200.0 feet to the point of beginning.

CONTAINING 2.00 acres, more or less.

TOGETHER with and subject to a right of way for road and utility purposes, over the existing road, 40 feet in width, which runs from the Zayante County Highway to the Semple Ranch.

PARCEL TWO

93-041-4

ALL that portion of the West 1/2 of the Southwest 1/4 of Section 31, Township 9 South, Range 1 West, M. D. B. & M., lying North of the center of Mountain Charley Creek so called

EXCEPTING THEREFROM so much as was conveyed by D. A. McEdward to Roberta Anderson by Deed dated January 14, 1947, recorded January 16, 1947 in Volume 526 of Official Records at Page 271, Santa Cruz County Records.

PARCEL THREE

74-011-3

BEGINNING at the Northeast corner of Section 36, Township 9 South, Range 2 West M. D. B. & M.; running thence Southerly along the East line of said Section 36 to the Northeast corner of the property described in the Deed from Zayante Properties Company, a corporation, to Reuben E. Swenson and Alma Swenson, his wife, dated December 2, 1941 and recorded December 24, 1941, in Volume 429 of Official Records, Page 395, Santa Cruz County Records; thence West along the North line of the property described in said Deed, 900 feet to the Northwest corner thereof; thence North and parallel with the East line of said Section 36, to the North line of said Section 36; thence East thereon 900 feet, more or less, to the point of beginning.

- 74-011-3 (Affects Parcel Three) ✓
- 93-041-2 (Affects Parcel One)
- 93-041-4 (Affects Parcel Two and Parcel One)
- 93-041-7 (Affects Parcel One)

RESERVING unto A. L. Jensen and Kathleen T. Jensen, his wife, as joint tenants, their heirs and assigns forever, an undivided 1/6 interest, and unto George Wale, Jr. and Rose Wale, his wife as joint tenants, their heirs and assigns forever, an undivided 1/6 interest, and unto Julia Errero, a widow, her heirs and assigns forever, an undivided 1/6 interest in and to all the oil, petroleum and hydro-carbon products and/or minerals in, on or under the surface of said land.

Sample Ranch.

MADE TO

RESERVE THEREFOR so much as was conveyed by D. A. McLeod to Robert

address by deed dated January 31, 1917, recorded January 16, 1917 in Volume 536

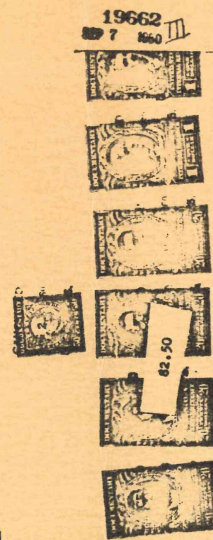
PARTIAL THERE

RESERVE unto A. L. Jensen and Kathleen T. Jensen, his wife, as joint

74-011-3 (Affects Parcel Three)
51-011-2 (Affects Parcel Two)
51-011-7 (Affects Parcel One)

RESERVE unto A. L. Jensen and Kathleen T. Jensen, his wife, as joint

15 of 25



Handwritten signatures and names: A. L. Jensen, Kathleen T. Jensen, Julia Erero, and others.

Dated: JULY 25th, 1960

CAL PAC

STATE OF CALIFORNIA

COURT OF ALAMEDA

FILED

JULY 28th 1960

Notary Public in and for said Alameda

County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

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County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

RESERVE THEREFOR

RESERVE unto A. L. Jensen and Kathleen T. Jensen, his wife, as joint

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RESERVE unto A. L. Jensen and Kathleen T. Jensen, his wife, as joint

CAL PAC

RESOL. ATT'D.

19662

JULY 27 1960

STATE OF CALIFORNIA

COURT OF ALAMEDA

FILED

JULY 28th 1960

Notary Public in and for said Alameda

County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

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County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

RESERVE THEREFOR

RESERVE unto A. L. Jensen and Kathleen T. Jensen, his wife, as joint

RESERVE unto A. L. Jensen and Kathleen T. Jensen, his wife, as joint

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RESERVE unto A. L. Jensen and Kathleen T. Jensen, his wife, as joint

CAL PAC

RESOL. ATT'D.

19662

JULY 27 1960

STATE OF CALIFORNIA

COURT OF ALAMEDA

FILED

JULY 28th 1960

Notary Public in and for said Alameda

County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

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County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

County of Santa Clara, County of Alameda

California Pacific Title Company

AFFILIATED WITH

CALIFORNIA PACIFIC TITLE INSURANCE COMPANY

FRONT AT COOPER STREET

SANTA CRUZ CALIFORNIA

TELEPHONE GARDEN 3-5272

WATSONVILLE OFFICE

11 ALEXANDER STREET

WATSONVILLE CALIFORNIA

OFFICERS

BENJ. J. HENLEY, PRESIDENT
 C. E. BLODGETT, SECRETARY & MANAGER
 OLIVER G. WYREN, ASSISTANT MANAGER
 H. W. GROPPER, ASSISTANT SECRETARY
 MADELINE W. NILSSON, ASSISTANT SECRETARY

PRELIMINARY REPORT

ORDER No. 65869 - pd

Mr. Floyd R. Eichelberger
 P. O. Box 447
 Felton, California

In connection with this order the Company is prepared to issue a Policy of Title Insurance in its usual form, as of the date of this report, containing its standard exceptions and conditions, showing title as herein set forth.

This report is issued without liability pending recording, final closing and issuance of Policy in accordance with instructions, and payment of premium.

Title vested on July 18, 1960 at 8:00 o'clock a.m. in:

A. L. JENSEN and KATHLEEN T. JENSEN, his wife, as Joint Tenants, as to an undivided 1/3 interest, GEORGE WALE JR. and ROSE WALE, his wife, as Joint Tenants, as to an undivided 1/3 interest, and ANDREW B. ERRERO and JULIA ERRERO, his wife, as Joint Tenants, as to an undivided 1/3 interest.

SUBJECT TO:

- 1: County taxes for the fiscal year 1960-61 now a lien but not yet due or payable, including personal property tax, amount not ascertainable.
- 2: Right of the Public to use as a roadway so much of the herein described property as lies within the boundary lines of "Zayante Road".
- 3: Right of Way 40 feet in width for road purposes granted by California Timber Company to Joseph Guenter, et al, by Deed dated April 26, 1917, and recorded April 27, 1917, in Volume 276 of Deeds at Page 432, Santa Cruz County Records.
(Affects the Southwest 1/4 of Southwest 1/4 of Section 30, Township 9 South, Range 1 West.)
- 4: Right of Way for road purposes 50 feet in width, as granted by Felicie Bertha Lecas and Josephine Fombaron to Katherine Moore by Deed dated December 15, 1938, and recorded October 31, 1939, in Volume 383 of

(continued)

(4 - Right of Way for road - continued)

of Official Records at Page 86, Santa Cruz County Records. (Affects the Northwest 1/4 of the Southwest 1/4 of Section 30, Township 9 South, Range 1 West.)

- 5: Right of Way 40 feet in width for road purposes granted by B. J. Murphy, et al, to S. W. Semple, et ux, by Deed dated January 14, 1942, and recorded February 4, 1942, in Volume 431 of Official Records at Page 90, Santa Cruz County Records. (Affects the Southwest 1/4 of the Northwest 1/4 of Section 31, Township 9 South Range 1 West.)
- 6: Water Right from a spring, as granted by Brendan J. Murphy, et al, to Arthur C. Dempsey, Jr., et ux, by Deed dated June 16, 1942, and recorded June 22, 1942, in Volume 433 of Official Records at Page 98, Santa Cruz County Records. (Affects the Northwest 1/4 of the Southwest 1/4 of Section 30, Township 9 South Range 1 West.)
- 7: A Right of Way for a single line of poles, with wires, etc., for the distribution of electrical energy, together with the right of ingress and egress thereto as granted by A. L. Jensen, et ux, et al, to Coast Counties Gas and Electric Company, a corporation by instrument recorded December 1, 1954 in Volume 993 of Official Records at Page 300, Santa Cruz County Records. (Affects the West one-half of the Southwest 1/4 of Section 30 T. 9 S. R. 1 W. and the West one-half of the Northwest 1/4 of Section 31 T. 9 S. R. 1 W.)

The foregoing right of way states, in part, the following:

"Said line of poles to be erected along or on land immediately adjacent to Zayante Road".

- 8: A Right of Way for a single line of poles, with wires, for the distribution of electrical energy, together with the right of ingress and egress thereto, as granted by A. L. Jensen, et ux, et al, to Pacific Gas and Electric Company, a corporation and the Pacific Telephone and Telegraph Company, a corporation, by instrument recorded July 19, 1955 in Volume 1026 of Official Records at Page 124, Santa Cruz County Records. (Affects the Northwest 1/4 of the Southwest 1/4 of Section 30 T. 9 S. R. 1 W.)

NOTE: County taxes for the fiscal year 1959-60 PAID as follows:

A

- (a) FIRST INSTALLMENT in the amount of \$30.00.
SECOND INSTALLMENT in the amount of \$30.00.
Assessment No. 45236. (Affects Parcel Three).
- (b) FIRST INSTALLMENT in the amount of \$66.77.
SECOND INSTALLMENT in the amount of \$66.77.
Assessment No. 54073. (Affects Parcel One).
- (c) FIRST INSTALLMENT in the amount of \$73.94.
SECOND INSTALLMENT in the amount of \$73.94.
Assessment No. 54075. (Affects Parcel Two , and Parcel One).
- (d) FIRST INSTALLMENT in the amount of \$6.84.
SECOND INSTALLMENT in the amount of \$6.84.
Assessment No. 54078. (Affects Parcel One).

(See EXHIBIT A for property description)

line of the said Creek; thence along the last named line 182.0 feet, more or less, to the point of beginning.

CONTAINING 1.00 acres, more or less.

TOGETHER with and subject to, a right of way for road and utility purposes, of a strip of land 40 feet in width, over the existing road from the County Highway to the fallen bridge over the said Creek.

(e) BEGINNING at a point which bears due East 541.0 feet, and thence North 13° 45' East 100.0 feet from the 1/4 corner on the West boundary of Section 31, T. 9 S., R. 1 W., M. D. M., and running thence from the said point of beginning North 76° 15' West 428.0 feet, more or less, to the Easterly line of the County Highway along Zayante Creek; thence along the last named line, Northerly 200 feet; thence leaving the last named line South 76° 15' East 440 feet, more or less, to a point which bears North 13° 45' East 200.0 feet from the point of beginning; thence South 13° 45' West 200.0 feet to the point of beginning.

CONTAINING 2.00 acres, more or less.

TOGETHER with and subject to a right of way for road and utility purposes, over the existing road, 40 feet in width, which runs from the Zayante County Highway to the Semple Ranch.

PARCEL TWO

ALL that portion of the West 1/2 of the Southwest 1/4 of Section 31, Township 9 South, Range 1 West, M. D. B. & M., lying North of the center of Mountain Charley Creek so called

EXCEPTING THEREFROM so much as was conveyed by D. A. McEdward to Roberta Anderson by Deed dated January 14, 1947, recorded January 16, 1947 in Volume 526 of Official Records at Page 271, Santa Cruz County Records.

PARCEL THREE 74-011-3

BEGINNING at the Northeast corner of Section 36, Township 9 South, Range 2 West M. D. B. & M.; running thence Southerly along the East line of said Section 36 to the Northeast corner of the property described in the Deed from Zayante Properties Company, a corporation, to Reuben E. Swenson and Alma Swenson, his wife, dated December 2, 1941 and recorded December 24, 1941, in Volume 429 of Official Records, Page 395, Santa Cruz County Records; thence West along the North line of the property described in said Deed, 900 feet to the Northwest corner thereof; thence North and parallel with the East line of said Section 36, to the North line of said Section 36; thence East thereon 900 feet, more or less, to the point of beginning.

- 74-011-3 (Affects Parcel Three)
- 93-041-2 (Affects Parcel One)
- 93-041-4 (Affects Parcel Two and Parcel One)
- 93-041-7 (Affects Parcel One)

EXHIBIT A

SITUATE in the County of Santa Cruz, State of California, and described as follows:

PARCEL ONE

Parcel # 93-041-2
11 12 2 — 041-4
041-7

BEING the West 1/2 of the Southwest 1/4 of Section 30, Township 9, South, Range 1 West, M. D. B. & M., and the West 1/2 of the Northwest 1/4 of Section 31, Township 9 South, Range 1 West, M. D. B. & M.

EXCEPTING therefrom all that portion of said land lying South of Mountain Charley Creek, so called.

ALSO EXCEPTING therefrom the lands described as follows:

(a) PART of the Northwest 1/4 of the Southwest 1/4 of Section 30 T. 9 S., R. 1 W., M. D. B. & M., and more particularly described as follows:

BEGINNING at a driven iron pipe in the property line of the newly located Zayante Road at the junction of said property line and the East side of the old Zayante Road and running North 35° 24' East 132.10 feet along said old road to a driven hub; thence North 59° 49' East 70 feet to the center of Zayante Creek at the Southeast side of a private bridge; thence down the center of Zayante Creek whose meander traverse is as follows: South 38° 52' East 273.00 feet; South 6° 52' West 117.00 feet; South 69° 10' West 167.20 feet; South 20° 50' East 50 feet; thence along the West bank of Zayante Creek, South 3° 00' East 347.50 feet to a 12 inch diameter redwood tree that is blazed on the West side and has a driven iron spike in said blaze; thence South 83° 32' West 26.50 feet to a driven iron pipe in the East property line of Zayante Road and thence along said property line curving left on a 230 foot radius curve for 11 feet; thence North 5° 06' West 223.06 feet; thence curving left on a curve whose radius is 330 feet for 146.80 feet to a driven iron pipe; thence continuing on said 330 foot radius curve for 5 feet; thence North 31° 52' West 97.05 feet; thence curving right on a curve whose radius is 170 feet for 114.5 feet; thence North 5° 30' East 76.40 feet to the point of beginning, and

CONTAINING 2.40 acres, more or less.

(b) BEING a part of Section 31, T. 9 S., R. 1 W., M. D. B. & M., Santa Cruz County, California, and more particularly bounded and described as follows:

BEGINNING at the Section corner common to Sections 25 and 36, T. 9 S., R. 2 W., and Sections 30 and 31 T. 9 S., R. 1 W.; thence from said place of beginning East 404.00 feet to the West property line of the Zayante Road; thence Southerly on a 470 foot radius curve for a distance of 172.50 feet; thence South 15° 03' West 76.50 feet to the center line of said Zayante Creek; and thence down said center line whose meander course is South 51° 04' West 96.00 feet and South 2° 33' East 80.20 feet; thence leaving said creek North 67° 00' West 328.00 feet to the Township line between Section 36, T. 9 S., R. 2 W. and Section 31, T. 9 S., R. 1 W.; thence North 260.00 feet along said township line to the point of beginning and

CONTAINING 2.35 acres, more or less.

(c) BEING the North 484.5 feet of Lot 3 of Section 30, Twp. 9 S. of R. 1 W., M. D. B. & M., according to the official plat of the Survey of said land returned to the General Land Office by the Surveyor General.

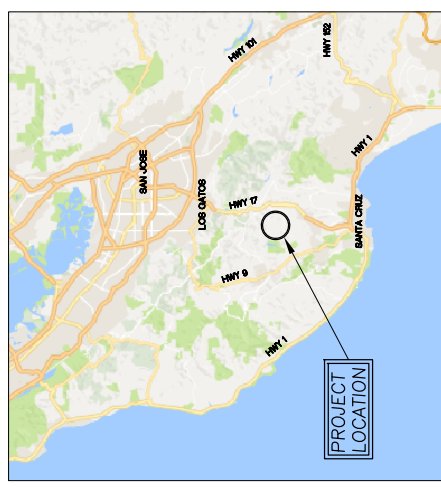
(d) BEGINNING at a point in the center line of Mountain Charlie Creek, which point bears due East 541 feet and thence South 13° 45' West 51.0 feet from the 1/4 corner on the West boundary of Section 31, T. 9 S., R. 1 W., M. D. M. and running thence from the said point of beginning North 13° 45' East 230.00 feet to the Southerly line of a 40 foot road to the Semple Ranch; thence along the last named line, Easterly 185.0 feet; thence South 13° 45' West 255.0 feet to the said center

Exhibit B

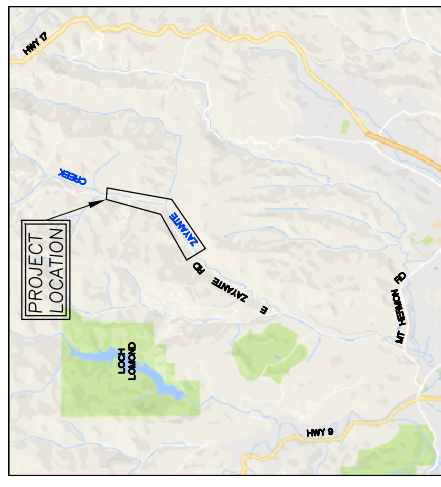
Project Design, Practice Requirements, Construction and Maintenance Specifications

- 100% Project Designs prepared by Waterways Consulting Inc, dated 1/1/18 (10 pages)
- 100% Project Specifications prepared by Waterways Consulting Inc, dated 1/16/18 (63 pages)
- Practice Requirements prepared by USDA NRCS, dated 4/17/18 (2 pages)

ZAYANTE CREEK HABITAT ENHANCEMENT PROJECT 100% DRAFT DESIGN SUBMITTAL



REGIONAL MAP
N.T.S. (GOOGLE)



VICINITY MAP
N.T.S. (GOOGLE)

SHEET INDEX

- C1 COVER SHEET
- C2 LOWER ZAYANTE CREEK SITES 8 AND 9 PLAN
- C3 LOWER ZAYANTE CREEK SITE 20 PLAN
- C4 LOWER ZAYANTE CREEK SITES 21 AND 22 PLAN
- C5 TYPE 1 HABITAT FEATURE DETAILS
- C6 TYPE 2 HABITAT FEATURE DETAILS
- C7 TYPE 3 HABITAT FEATURE DETAILS
- C8 TYPE 4 HABITAT FEATURE DETAILS
- C9 DETAILS
- C10 NOTES

GENERAL NOTES

1. TOPOGRAPHIC MAPPING WAS PERFORMED BY:
WATERWAYS CONSULTING, INC.
SANTA CRUZ, CA 95060
2. ELEVATION DATUM:
2.1. 2.1. AN ASSUMED ELEVATION OF 104.03' WAS ESTABLISHED A SURVEY CONTROL POINT #102 SHOWN ON SHEET C3 (3'x24" IRON ROD).
2.2. AN ASSUMED ELEVATION OF 117.44' WAS ESTABLISHED A SURVEY CONTROL POINT #111 SHOWN ON SHEET C4 (3'x24" IRON ROD).
3. AERIAL PHOTO SOURCE: AUTOCAD 2016 GEOLOCATION MAP.
4. CONTOUR INTERVAL IS ONE FOOT. ELEVATIONS AND DISTANCES SHOWN ARE IN DECIMAL FEET.
5. THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES ARE NOT SHOWN HEREON.
6. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE 2015 EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS, ISSUED BY THE DEPARTMENT OF TRANSPORTATION (HEREAFTER REFERRED TO AS "STANDARD SPECIFICATIONS").

ABBREVIATIONS

- AVG. AVERAGE
- CC CUBIC YARDS
- DIA. DIAMETER
- EG. EXISTING GROUND
- ELEV. ELEVATION
- FIN. FINISHED
- FT FEET
- NIC NOT IN CONTRACT
- N.T.S. NOT TO SCALE
- O.C. ON CENTER
- PCP ROCK SLOPE PROTECTION
- SPK SPIKE
- 3'-4'-FT. THREE TO FOUR FEET
- T.B.D. TO BE DETERMINED
- UNK UNKNOWN
- WSE WATER SURFACE ELEVATION
- YR YEAR

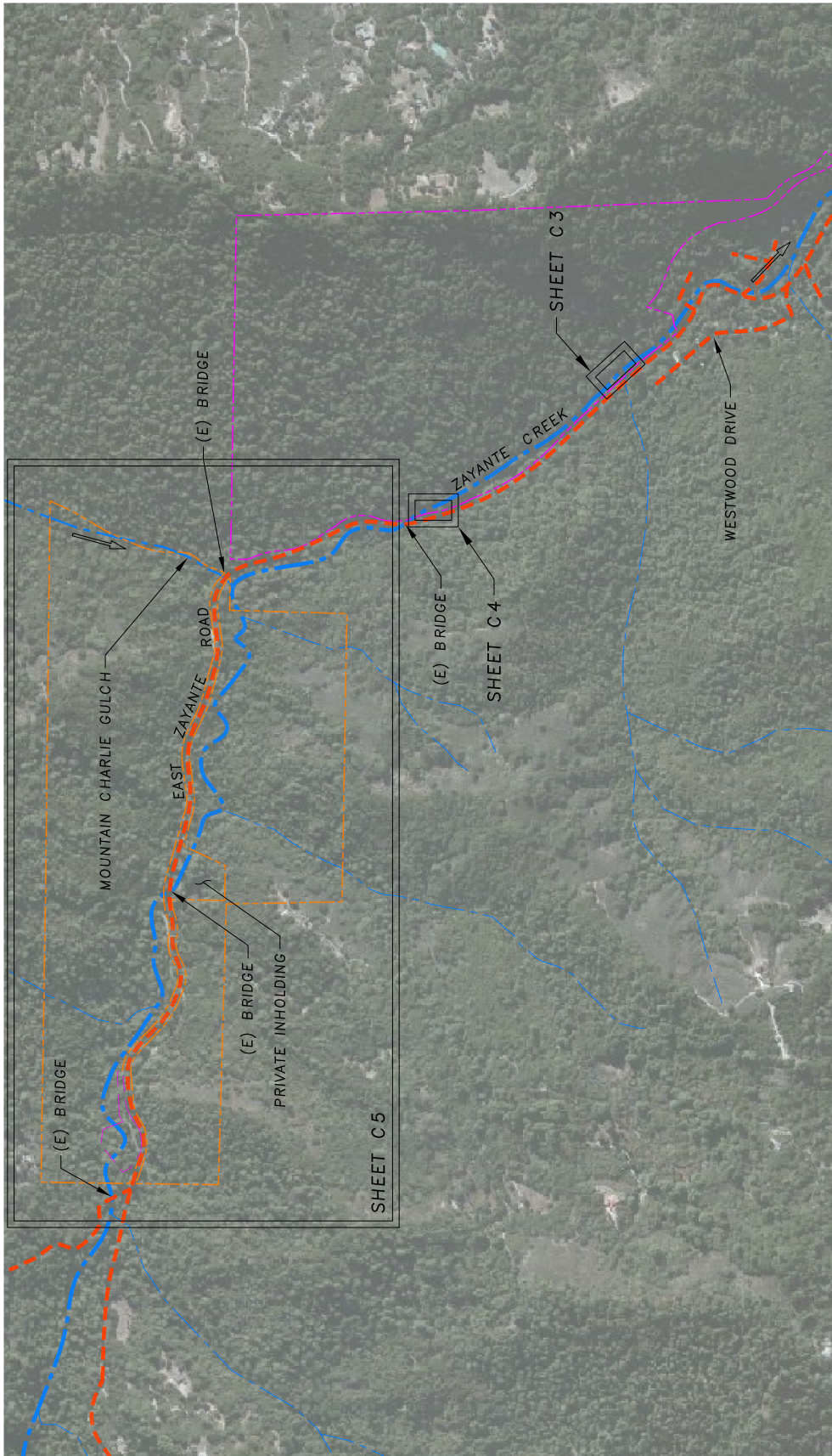
PROJECT DESCRIPTION

THESE DRAWINGS PROVIDE 100% DESIGN LEVEL DETAILS FOR THE CONSTRUCTION OF LARGE WOODY DEBRIS HABITAT ELEMENTS ALONG ZAYANTE CREEK IN SANTA CRUZ COUNTY, CALIFORNIA. WORK SHALL CONSIST OF HARVESTING EXISTING TREES WITHIN THE PROJECT AREA AND IMPORTING CHANNEL COMPLEXITY AND GRAVEL STORAGE.

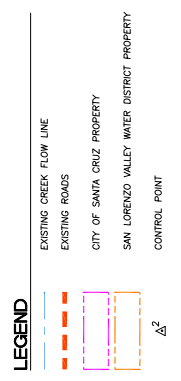
SECTION AND DETAIL CONVENTION

SECTION OR DETAIL IDENTIFICATION (NUMBER OR LETTER)

 REFERENCE SHEET FROM WHICH DETAIL OR SECTION IS TAKEN.



PROJECT AREA OVERVIEW
SCALE: 1" = 400'



WATERWAYS CONSULTING INC.
 500A QUART ST
 SANTA CRUZ, CA 95060
 PH: (831) 212-9291 / FAX: (831) 881-6847
 WWW.WATERWAYS.COM

DRAFT
 NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF
 DISTRICT OF SANTA CRUZ
 COUNTY

LOWER ZAYANTE
 CREEK SITES 8
 AND 9 PLAN

100% DRAFT DESIGN
 ENHANCEMENT PROJECT
 ZAYANTE CREEK HABITAT

DESIGNED BY: J.O.H.
 CHECKED BY: M.W.K.
 DATE: 1/18/18
 JOB NO.: 18-002
 DRAWING NO.: 18-002-001
 ORIGINAL DRAWING
 ADJUST SCALES
 REDUCED PRINTING

C3

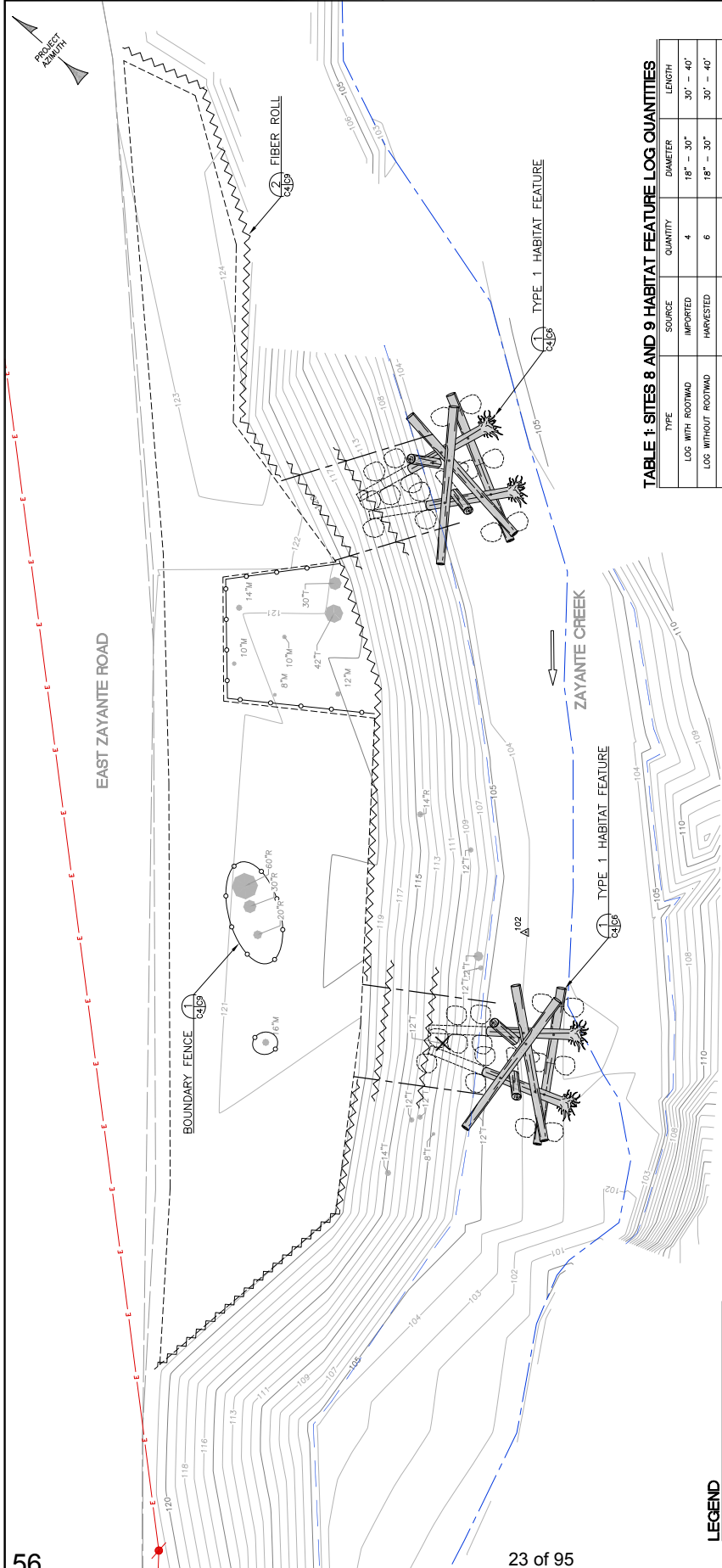


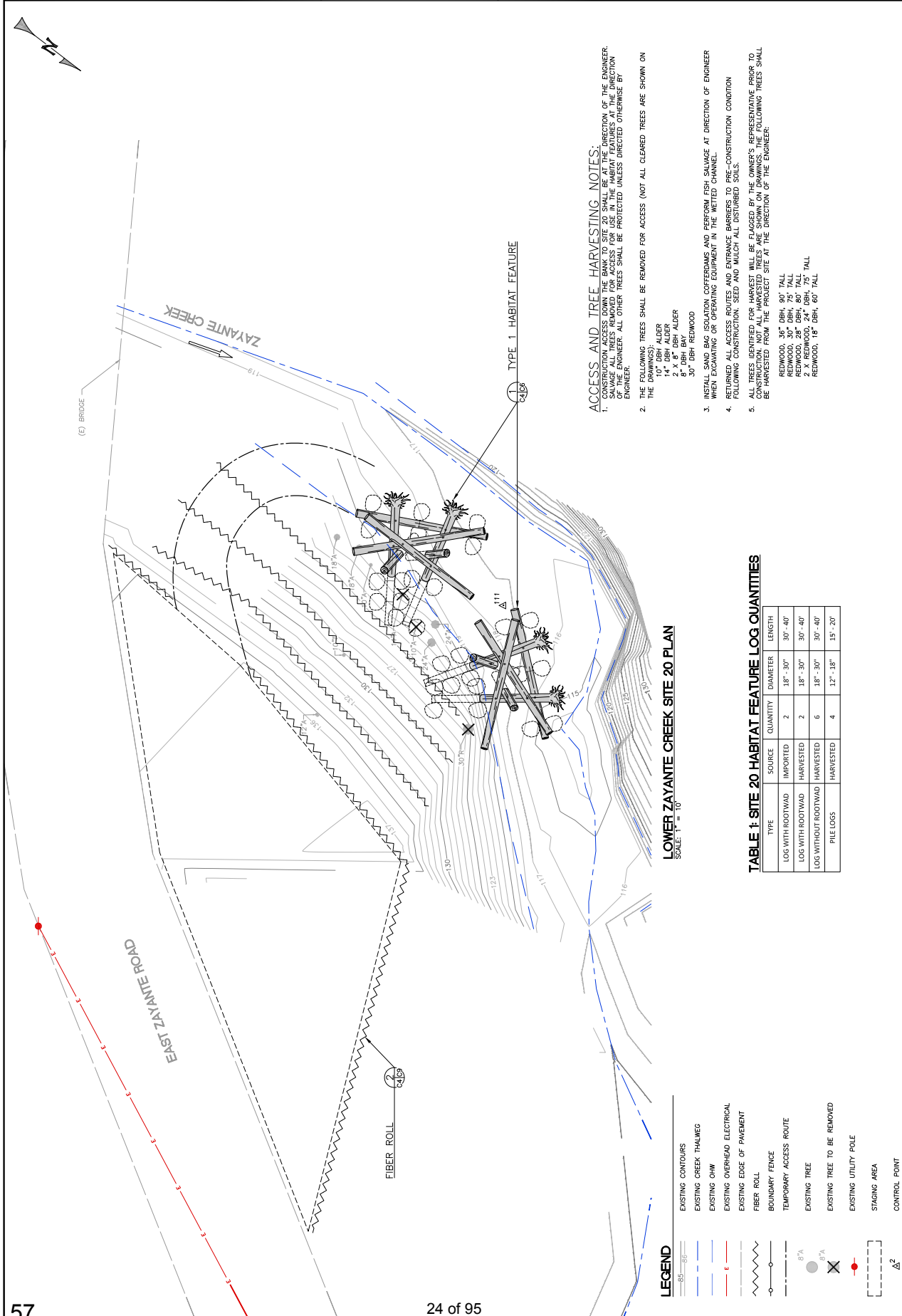
TABLE 1: SITES 8 AND 9 HABITAT FEATURE LOG QUANTITIES

TYPE	SOURCE	QUANTITY	DIAMETER	LENGTH
LOG WITH ROOTWAD	IMPORTED	4	18" - 30"	30' - 40'
LOG WITHOUT ROOTWAD	HARVESTED	6	18" - 30"	30' - 40'
FILE LOGS	HARVESTED	4	12" - 18"	15' - 20'

- ACCESS AND TREE HARVESTING NOTES:**
- CONSTRUCTION ACCESS DOWN THE BANK TO SITES 8 AND 9 SHALL OCCUR AT LOCATIONS SHOWN IN THE PLAN. SALVAGE ALL TREES REMOVED FOR USE IN THE HABITAT FEATURES AT THE DISCRETION OF THE ENGINEER. ALL OTHER TREES SHALL BE PROTECTED UNLESS DIRECTED OTHERWISE BY ENGINEER.
 - THE FOLLOWING TREES SHALL BE REMOVED FOR ACCESS (NOT ALL CLEARED TREES ARE SHOWN ON THE DRAWINGS):
 12" DBH TREE (SPECIES UNKNOWN)
 - INSTALL SAND BAG ISOLATION COFFERDAMS AND PERFORM FISH SALVAGE AT DIRECTION OF ENGINEER WHEN EXCAVATING OR OPERATING EQUIPMENT IN THE WETTED CHANNEL.
 - RETURNED ALL ACCESS ROUTES AND ENTRANCE BARRIERS TO PRE-CONSTRUCTION CONDITION FOLLOWING CONSTRUCTION. SEED AND MULCH ALL DISTURBED SOILS.
 - ALL TREES IDENTIFIED FOR HARVEST WILL BE FLAGGED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. NOT ALL HARVESTED TREES ARE SHOWN ON DRAWINGS. THE FOLLOWING TREES SHALL BE HARVESTED FROM THE PROJECT SITE AT THE DIRECTION OF THE ENGINEER:
 2 X REDWOOD, 30" DBH, 80' TALL
 2 X REDWOOD, 28" DBH, 75' TALL
 2 X REDWOOD, 28" DBH, 75' TALL

LOWER ZAYANTE CREEK SITES 8 AND 9 PLAN
 SCALE: 1" = 10'

- LEGEND**
- 85'-86' EXISTING CONTOURS
 - EXISTING CREEK THALWEG
 - EXISTING OHW
 - EXISTING OVERHEAD ELECTRICAL
 - EXISTING EDGE OF PAVEMENT
 - FIBER ROLL
 - BOUNDARY FENCE
 - TEMPORARY ACCESS ROUTE
 - EXISTING TREE
 - EXISTING TREE TO BE REMOVED
 - EXISTING UTILITY POLE
 - STAGING AREA
 - CONTROL POINT

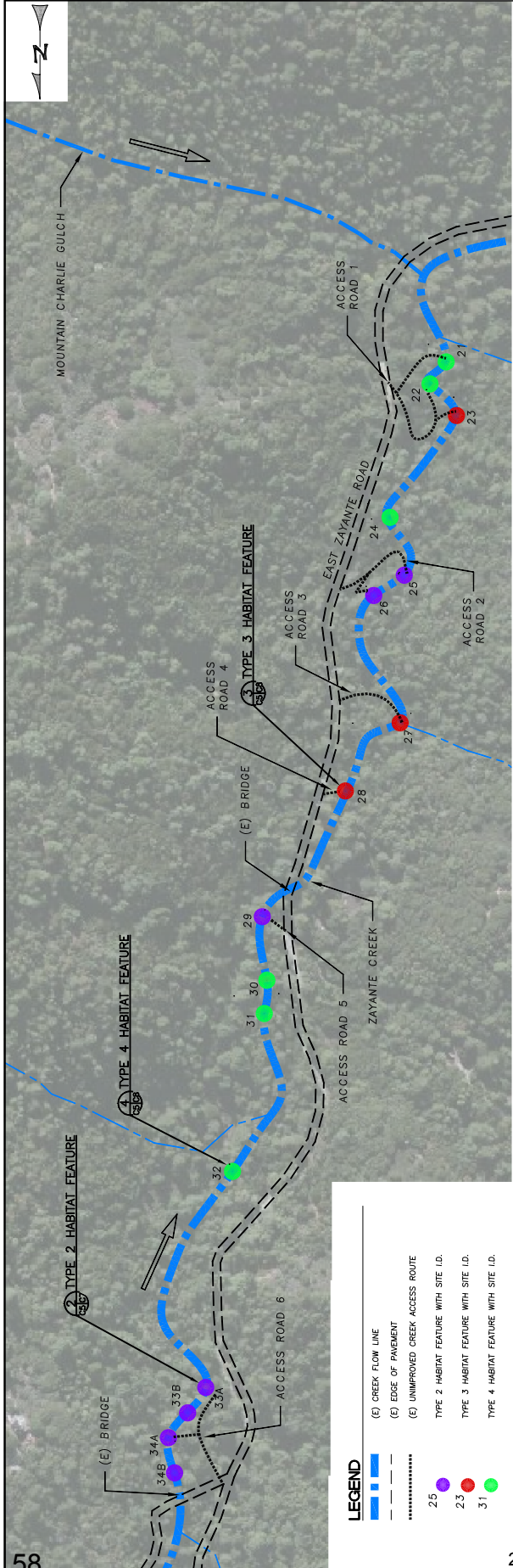


ACCESS AND TREE HARVESTING NOTES:
 1. WHERE CONDITIONS ALLOW FOR BANK TO BE 30' FROM THE HABITAT FEATURE, THE ENGINEER SHALL PROVIDE ACCESS ROUTES FOR THE BANK TO BE 30' FROM THE HABITAT FEATURE. THE ENGINEER SHALL PROTECT ALL OTHER TREES THAT ARE NOT TO BE REMOVED UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 2. THE FOLLOWING TREES SHALL BE REMOVED FOR ACCESS (NOT ALL CLEARED TREES ARE SHOWN ON THE DRAWINGS):
 14" DBH ALDER
 2 X 8" DBH ALDER
 30" DBH REDWOOD
 3. INSTALL SLOPE STABILIZATION, COFFERDAMS AND REPAIRS FOR EROSION CONTROL AT DIRECTION OF ENGINEER WHEN EXCAVATING OR OPERATING EQUIPMENT IN THE WETTED CHANNEL.
 4. REPAIR ALL ACCESS ROUTES AND EROSION BARRIERS TO PRE-CONSTRUCTION CONDITION FOLLOWING CONSTRUCTION. SEED AND MULCH ALL DISTURBED SOILS.
 5. ALL TREES DESIGNED FOR HARVEST WILL BE PLACED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. NOT ALL HARVESTED TREES ARE SHOWN ON DRAWINGS. THE FOLLOWING TREES SHALL BE HARVESTED FROM THE PROJECT SITE AT THE DIRECTION OF THE ENGINEER:
 REDWOOD, 36" DBH, 90' TALL
 REDWOOD, 30" DBH, 75' TALL
 REDWOOD, 28" DBH, 80' TALL
 REDWOOD, 18" DBH, 60' TALL

LOWER ZAYANTE CREEK SITE 20 PLAN
 SCALE: 1" = 10'

TABLE 1: SITE 20 HABITAT FEATURE LOG QUANTITIES

TYPE	SOURCE	QUANTITY	DIAMETER	LENGTH
LOGS WITH ROOTWARD	IMPORTED	2	18" - 30"	30' - 40'
LOG WITH ROOTWARD	HARVESTED	2	18" - 30"	30' - 40'
LOGS WITHOUT ROOTWARD	HARVESTED	6	18" - 30"	30' - 40'
PILE LOGS	HARVESTED	4	12" - 18"	15' - 20'



UPPER ZAYANTE ACCESS AND HABITAT FEATURE PLACEMENT PLAN
 SCALE: 1" = 200'

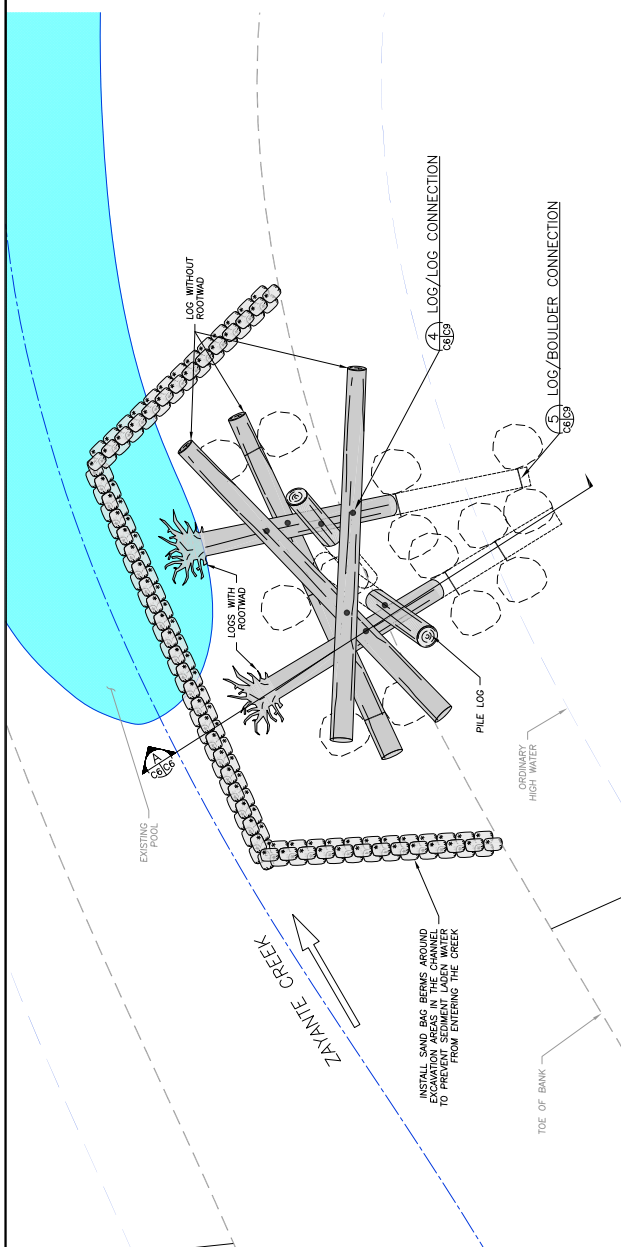
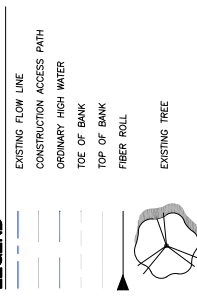
TABLE 1: UPPER ZAYANTE ACCESS AND TREE HARVEST INVENTORY

ACCESS ROAD	ENTRANCE BARBER TYPE	TREES TO BE CLEARED FOR ACCESS	TREES TO BE HARVESTED FOR HABITAT FEATURES (DBH/HEIGHT)	LOGS WITH ROOTWADS	LOGS WITHOUT ROOTWADS	FULL TREES WITH ROOTWAD	FULL TREES WITHOUT ROOTWAD
1	BARBED FENCE	5" DBH FR 5" DBH TANOKAK 6" DBH TANOKAK 2 x 4" DBH TANOKAK	4 x 75" TALL REDWOOD WITH ROOTWAD (DBH 28") 4 x 75" TALL REDWOOD WITH ROOTWAD (DBH 24") 60" TALL REDWOOD WITHOUT ROOTWAD (DBH 20") 80" TALL REDWOOD WITHOUT ROOTWAD (DBH 24")	3	3	6	1
2	STEEL BOLLARDS		80" TALL REDWOOD WITH ROOTWAD (DBH 30") 70" TALL REDWOOD WITH ROOTWAD (DBH 24") 4 x 70" TALL REDWOOD WITHOUT ROOTWAD (DBH 20") 90" TALL REDWOOD WITH ROOTWAD (DBH 36") 80" TALL REDWOOD WITH ROOTWAD (DBH 30")	6	10	-	-
3	STEEL BOLLARDS CONCRETE ECOCLOGY BOLLARDS		90" TALL REDWOOD WITH ROOTWAD (DBH 28") 70" TALL REDWOOD WITH ROOTWAD (DBH 24") 80" TALL REDWOOD WITHOUT ROOTWAD (DBH 20") 80" TALL REDWOOD WITHOUT ROOTWAD (DBH 28")	2	2	-	2
4		12" DBH TANOKAK 6" DBH REDWOOD 2 x 4" DBH TANOKAK	80" TALL REDWOOD WITHOUT ROOTWAD (DBH 28") 90" TALL REDWOOD WITH ROOTWAD (DBH 30") 70" TALL REDWOOD WITHOUT ROOTWAD (DBH 18")	2	2	-	2
5			75" TALL REDWOOD WITHOUT ROOTWAD (DBH 28") 80" TALL REDWOOD WITH ROOTWAD (DBH 28")	3	4	-	1
6	BARBED FENCE		TO BE IDENTIFIED IN FIELD WITH OWNER'S REPRESENTATIVE, ENGINEER, AND CONTRACTOR	12	8	-	-

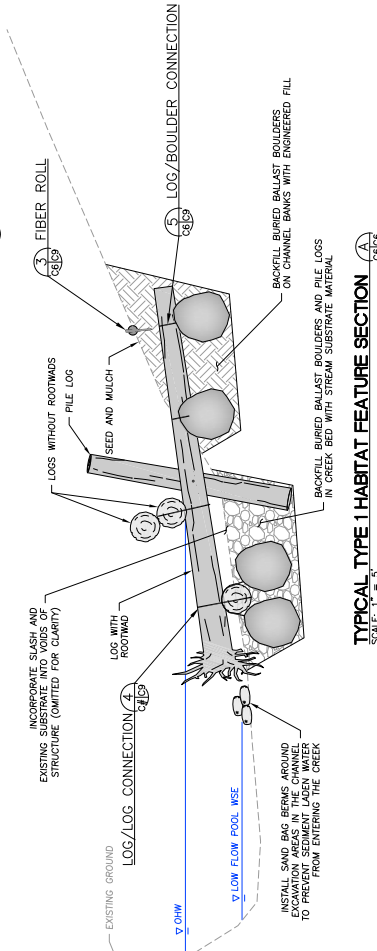
TABLE 2: UPPER ZAYANTE HABITAT FEATURE QUANTITIES

SITE I.D.	HABITAT FEATURE TYPE	LOGS WITH ROOTWADS	LOGS WITHOUT ROOTWADS	FULL TREES WITH ROOTWADS	FULL TREES WITHOUT ROOTWADS
21	4	-	-	3	-
22	4	-	-	3	-
23	3	3	3	-	1
24	4	-	-	-	4
25	2	3	5	-	-
26	2	3	5	-	-
27	3	2	2	-	2
28	3	2	4	-	1
29	2	3	4	-	-
30	4	-	-	-	4
31	4	-	-	-	4
32	4	-	-	-	4
33A	2	3	2	-	-
33B	2	3	2	-	-
34A	2	3	2	-	-
34B	2	3	2	-	-
TOTAL		28	31	6	20

- NOTES:**
- FOR ALL ACCESS ROADS AND ENTRANCE BARBERS TO BE CONSTRUCTED UNDER THE PERMITS FOR CONSTRUCTION, SEED AND MULCH ALL DISTURBED SOILS.
 - SAVAGE TREES CLEARED FOR ACCESS PER TABLE 2. THIS SHEET FOR USE AS SLASH IN THE CONSTRUCTION OF HABITAT FEATURES.
 - ALL TREES IDENTIFIED FOR HARVEST WILL BE FLAGGED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.



TYPICAL TYPE 1 HABITAT FEATURE SECTION
SCALE: 1" = 5'

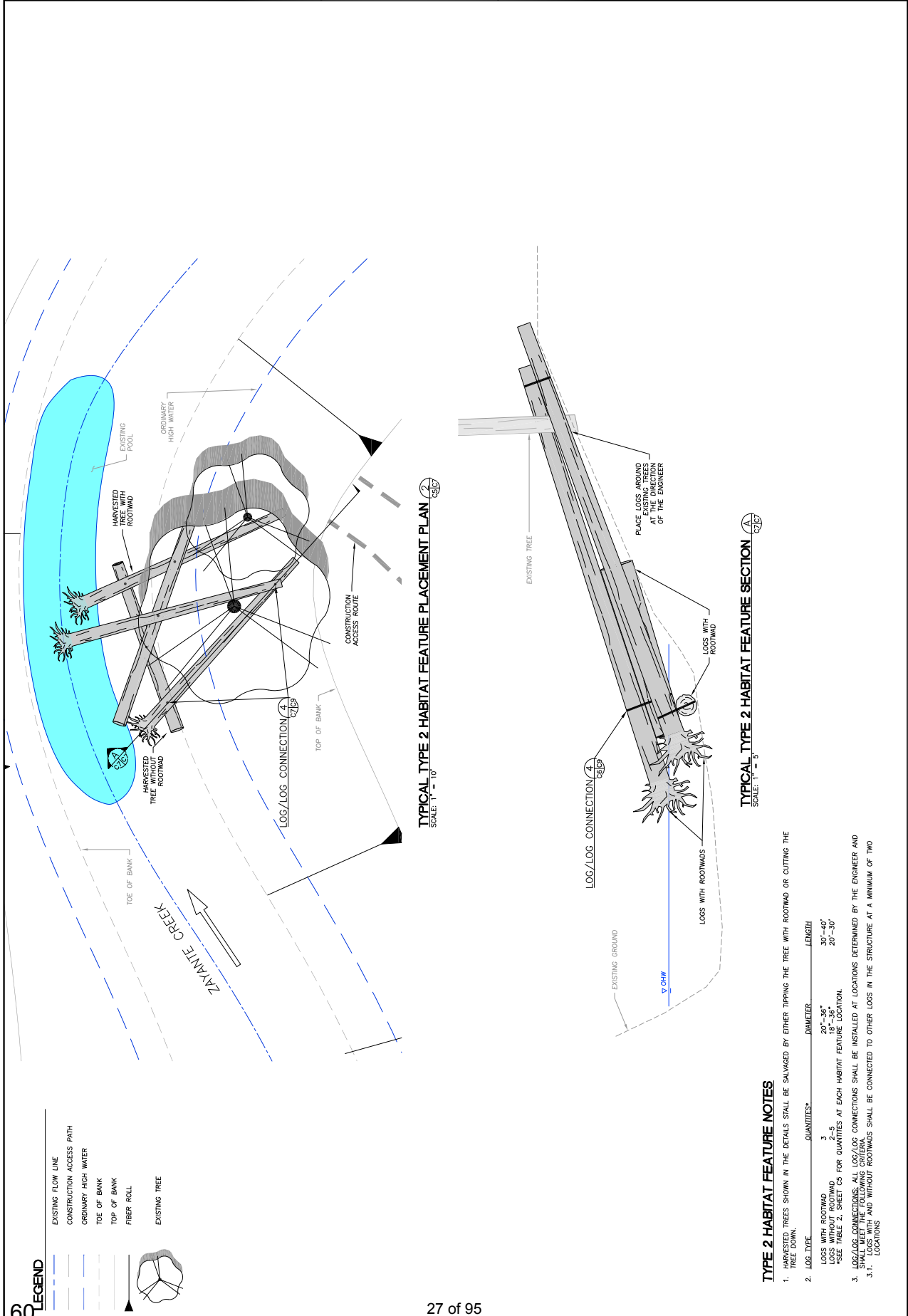


TYPICAL TYPE 1 HABITAT FEATURE NOTES

- HARVESTED TREES SHOWN IN THE DETAILS SHALL BE SALVAGED BY EITHER TIPPING THE TREE WITH ROOTWAD OR CUTTING THE TREE DOWN.
- LOG TYPE QUANTITIES LENGTH

LOG TYPE	QUANTITIES	LENGTH
LOGS WITH ROOTWAD	2	30'-40'
LOGS WITHOUT ROOTWAD	3	20'-30'
PILE LOGS	2	15'-20'

- LOG/LOG CONNECTIONS: ALL LOG/LOG CONNECTIONS SHALL BE INSTALLED AT LOCATIONS DETERMINED BY THE ENGINEER AND SHALL MEET THE FOLLOWING CRITERIA.
 - LOGS SHALL BE CONNECTED TO EITHER LOGS WITH ROOTWADS OR LOGS WITHOUT ROOTWADS AT A MINIMUM OF ONE LOCATION.
 - PILE LOGS SHALL BE CONNECTED TO LOGS WITH ROOTWADS OR LOGS WITHOUT ROOTWADS AT A MINIMUM OF ONE LOCATION.
- LOG/BOULDER CONNECTIONS: THE NUMBER OF LOG/BOULDER CONNECTIONS SHOWN IN THE DRAWINGS IS APPROXIMATE. THE ACTUAL NUMBER OF BOULDERS REQUIRED SHALL BE DETERMINED BY ADDING UP THE NUMBER OF REQUIRED BOULDERS FOR EACH LOG IN THE STRUCTURE USING TABLE 1, SHEET C9.

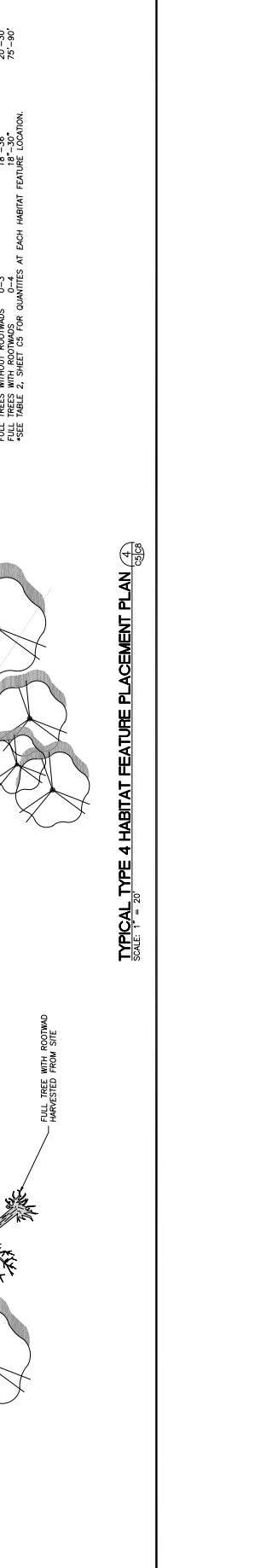
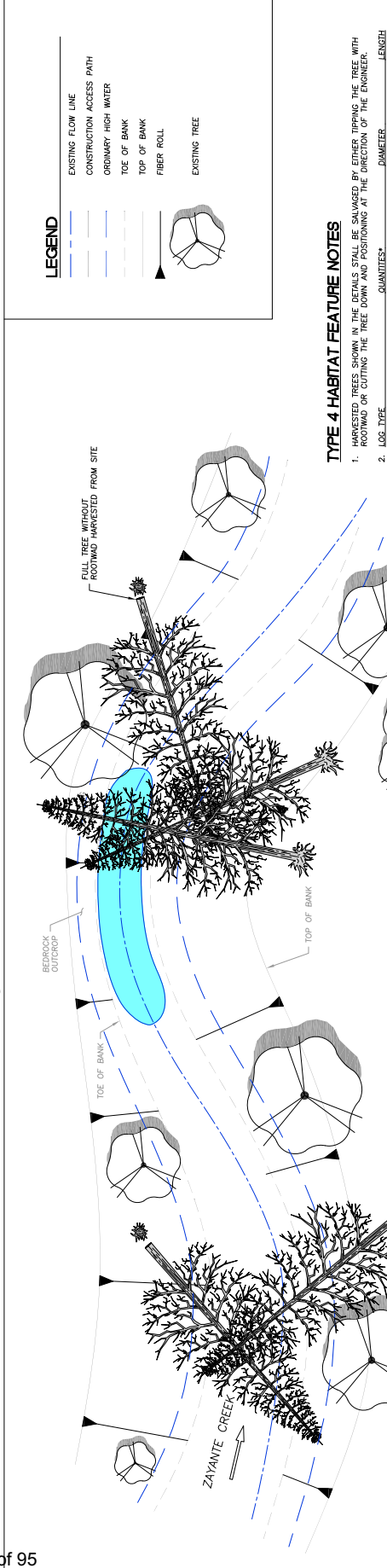
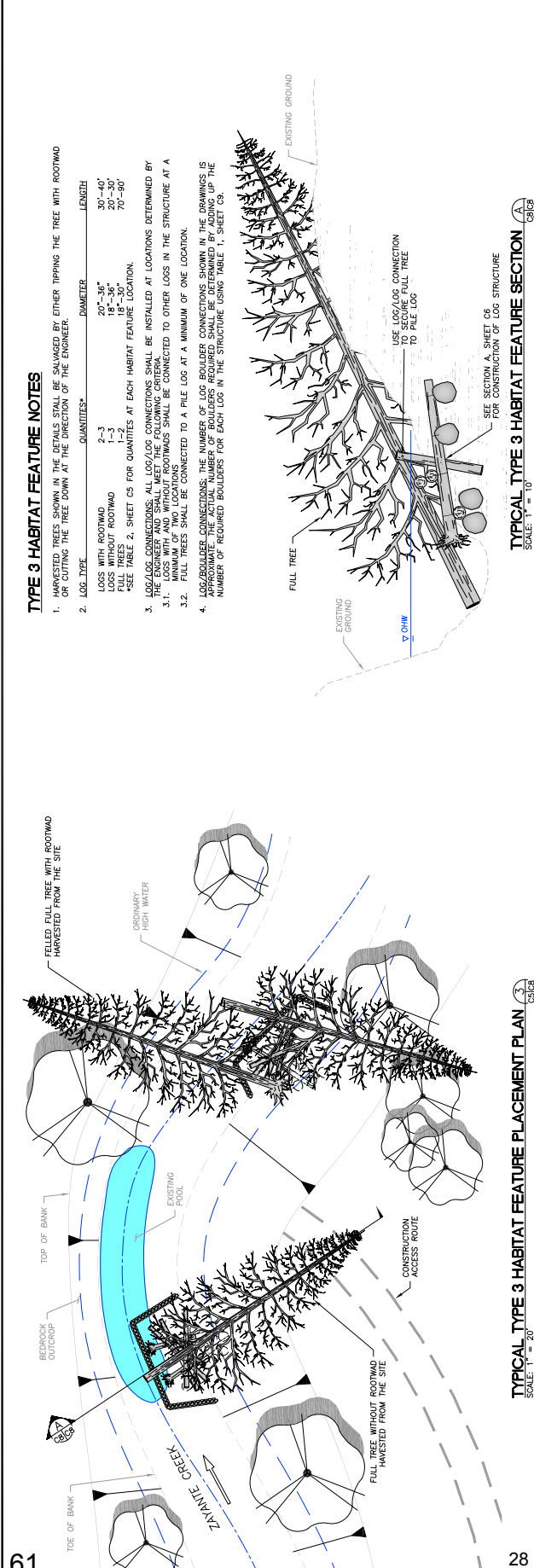


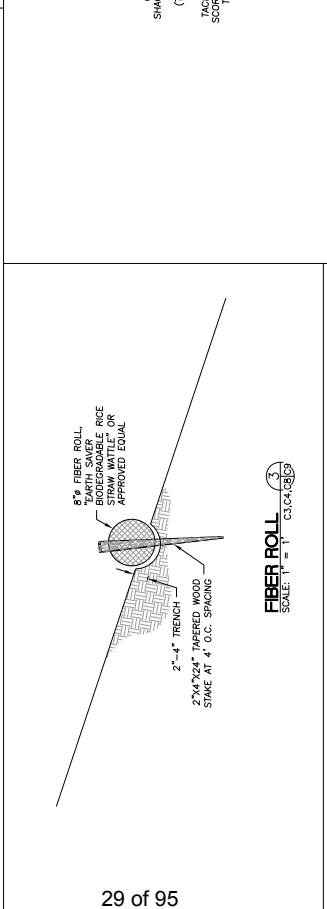
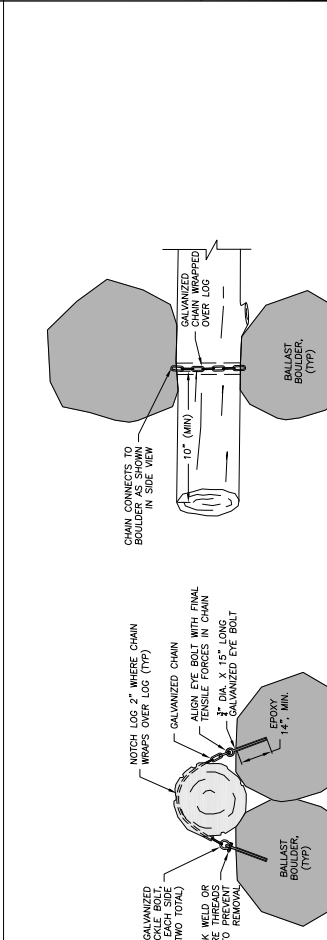
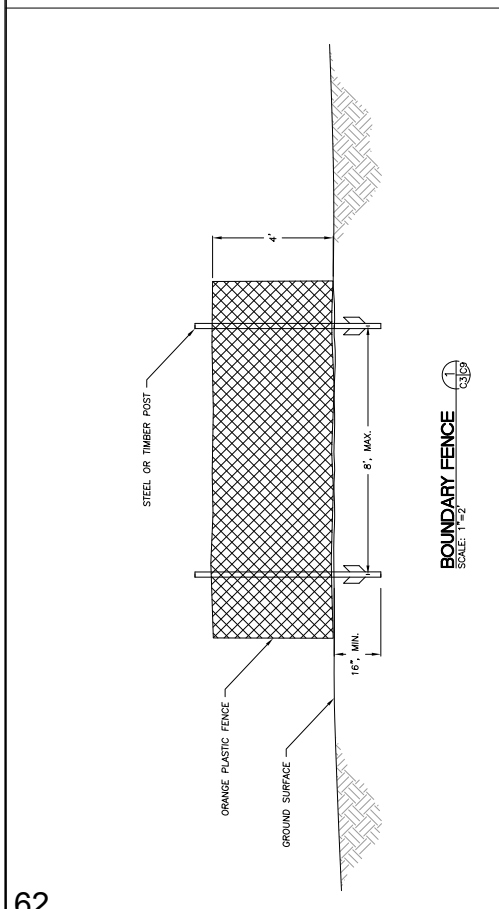
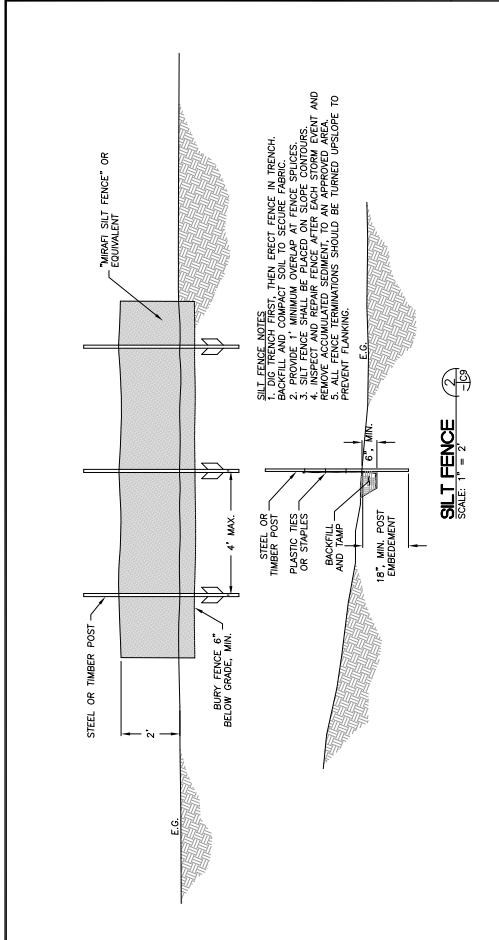
TYPE 2 HABITAT FEATURE NOTES

1. HARVESTED TREES SHOWN IN THE DETAILS SHALL BE SALVAGED BY EITHER TIPPING THE TREE WITH ROOTWAD OR CUTTING THE TREE DOWN.
2. LOG TYPE QUANTITIES*

LOG TYPE	QUANTITIES*	DIAMETER	LENGTH
LOGS WITH ROOTWAD	3	20" - 36"	30' - 40'
LOGS WITHOUT ROOTWAD	4	20" - 36"	20' - 30'

 *SEE TABLE 2, SHEET CS FOR QUANTITIES AT EACH HABITAT FEATURE LOCATION.
3. LOG/LOG CONNECTIONS: ALL LOG/LOG CONNECTIONS SHALL BE INSTALLED AT LOCATIONS DETERMINED BY THE ENGINEER AND SHALL MEET THE FOLLOWING CRITERIA:
 - 3.1. LOGS WITH AND WITHOUT ROOTWADS SHALL BE CONNECTED TO OTHER LOGS IN THE STRUCTURE AT A MINIMUM OF TWO LOCATIONS





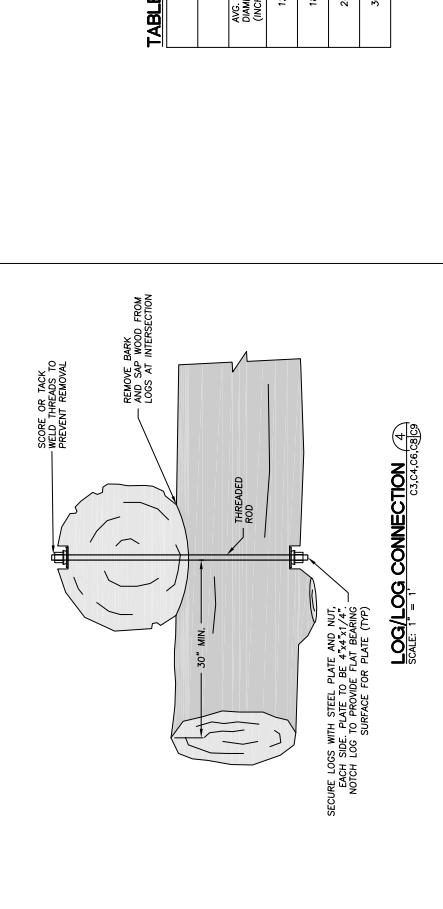
LOG/Boulder CONNECTION
SCALE: 1" = 2"

LOG BALLASTING NOTES:

- THE NUMBER OF BALLASTING REQUIREMENTS FOR ALL HABITAT FEATURES (WITH LOGS) SHALL BE SHOWN IN THESE DRAWINGS SHALL BE CALCULATED USING TABLE 1, THIS SHEET, BASED ON THE DIMENSIONS OF INDIVIDUAL LOGS IN THE HABITAT FEATURE.
- TABLE 1, LOG BALLASTING REQUIREMENTS ARE BASED ON BALLAST BOLDER MATERIAL AND SIZE LISTED IN THE SPECIFICATIONS AND WOOD SPECIES (ASSUMING GREEN WOOD); VARIATIONS IN EITHER SHALL REQUIRE APPROVAL BY THE ENGINEER.
- LOG/Boulder CONNECTIONS DO NOT NEED TO BE DIRECTLY ATTACHED TO INDIVIDUAL LOGS; LOGS IN THE FEATURE ARE CONNECTED TOGETHER WITH LOG/LOG CONNECTIONS.
- SLASH MATERIALS INCORPORATED INTO HABITAT FEATURES AND FULL TREES PLACED OVER HABITAT FEATURE LOGS ARE EXEMPT FROM BALLASTING REQUIREMENTS.

TABLE 1: LOG BALLASTING REQUIREMENTS

AVG. LOG LENGTH (INCHES)	REQUIRED # OF BALLAST BOLLERS				
	LOG LENGTH (FEET)	1	2	3	4
20	1	2	3	4	5
30	1	2	3	4	5
40	1	2	3	4	5





DRAFT NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF DISTRICT OF SANTA CRUZ COUNTY

NOTES

ZAVANTE CREEK HABITAT ENHANCEMENT PROJECT 100% DRAFT DESIGN SUBMITTAL

DESIGNED BY: J.O.H. CHECKED BY: M.W.K. DATE: 1/19/18 JOB NO.: 18-022 EROSION CONTROL PLAN NO.: 18-022 ORIGINAL DRAWING NO.: 18-022 REVISION NO.: 0

GENERAL NOTES
1. NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO CONSTRUCTION...
2. EXISTING UNDERGROUND UTILITY LOCATIONS:
A. CALL UNDERGROUND SERVICE ALERT (1-800-442-2444) TO LOCATE ALL UNDERGROUND UTILITY LINES...
3. IF DISCREPANCIES ARE DISCOVERED BETWEEN THE CONVENTIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION...

ACCESS AND STAGING AREA NOTES
1. USE ONLY THE APPROVED ACCESS POINTS, AS SHOWN ON THE DRAWINGS...
2. ALL APPROVED VEHICULAR ACCESS SHALL FOLLOW EXISTING ACCESS ROUTES WHERE DIRECTED BY ENGINEER...
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES...
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES...
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES...

EROSION CONTROL NOTES
1. THE EROSION CONTROL PLAN IS INTENDED FOR THE SUMMER CONSTRUCTION SEASON (APRIL 15TH TO OCTOBER 15TH)...
2. PRIOR TO COMMENCING WORK, PROTECT AREAS TO REMAIN UNDISTURBED WITH ESA FENCING...
3. BETWEEN OCTOBER 15 AND APRIL 15, EXPOSED SOIL SHALL BE PROTECTED FROM EROSION AT ALL TIMES...
4. HAVE A STANDBY CREW FOR EMERGENCY WORK AVAILABLE AT ALL TIMES DURING THE RAINY SEASON...
5. CONSTRUCT TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN AND/OR AS DIRECTED BY THE ENGINEER...
6. INCORPORATE ADEQUATE DRAINAGE PROCEDURES DURING THE CONSTRUCTION PROCESS TO ELIMINATE EXCESSIVE PONDING AND EROSION...

EARTHWORK NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF THE SLOPE, GRADING, AND DRAINAGE...
2. PRIOR TO COMMENCING WORK, ALL AREAS TO REMAIN UNDISTURBED SHALL BE ADEQUATELY PROTECTED WITH TEMPORARY ESA FENCING...
3. DO NOT DISTURB AREAS OUTSIDE OF THE DESIGNATED LIMITS OF DISTURBANCE...
4. ALL EXCESS SOILS SHALL BE REMOVED TO AN APPROVED DUMP SITE OR DISPOSED OF ON SITE...
5. CLEARING AND GRUBBING, SUBGRADE PREPARATION AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 19 OF THE STANDARD SPECIFICATIONS...
6. PRIOR TO STARTING WORK ON THE PROJECT, THE CONTRACTOR SHALL SUBMIT FOR ACCEPTANCE BY THE DISTRICT ENGINEER...
7. UNSUITABLE SOIL OR MATERIALS, NOT TO BE INCLUDED IN THE WORK INCLUDE:
A. ORGANIC MATERIALS, SUCH AS PILE, MULCH, ORGANIC SILT OR SOIL...
B. SOILS CONTAINING EXCESSIVE MOISTURE...
C. MATERIAL CONTAINING EXCESSIVE MOISTURE...
D. MATERIAL WHICH WILL NOT ACHIEVE SPECIFIED DENSITY OR BEARING...
E. MATERIAL WHICH WILL NOT ACHIEVE SPECIFIED DENSITY OR BEARING...

DUST CONTROL NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS DUST CONTROL THROUGHOUT THE CONSTRUCTION...
2. ALL DISTURBED AREAS, INCLUDING UNPAVED ACCESS ROADS OR STORAGE PILES, NOT BEING ACTIVELY UTILIZED FOR CONSTRUCTION PURPOSES, SHALL BE EFFECTIVELY STABILIZED OF DUST EMISSIONS USING WATER, CHEMICAL STABILIZER/SUPPRESSANT, OR VEGETATIVE GROUND COVER...
3. ALL GROUND-DISTURBING ACTIVITIES (E.G., CLEARING, GRUBBING, SCORING, AND EXCAVATION) SHALL BE EFFECTIVELY CONTROLLED OF FUGITIVE DUST EMISSIONS UTILIZING APPLICATION OF WATER OR BY PER-SOILING...
4. ALL MATERIALS TRANSPORTED OFFSITE SHALL BE COVERED OR EFFECTIVELY WETTED TO LIMIT DUST EMISSIONS...
5. FOLLOWING THE ADDITION OF MATERIALS TO, OR THE REMOVAL OF MATERIALS FROM, THE SURFACES OF OUTDOOR STORAGE PILES, SAID PILES SHALL BE EFFECTIVELY STABILIZED OF FUGITIVE DUST EMISSIONS UTILIZING SUFFICIENT WATER OR CHEMICAL STABILIZER/SUPPRESSANT...
6. DISTURBED SURFACES SHALL BE SEEDDED PRIOR TO OCTOBER 15TH OR EARLIER AS REQUIRED BY THE APPLICABLE PERMIT CONDITIONS...

CONSTRUCTION SCHEDULE / PHASING NOTES
1. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES...
2. PRIOR TO COMMENCING WORK, PROTECT AREAS TO REMAIN UNDISTURBED WITH ESA FENCING...
3. BETWEEN OCTOBER 15 AND APRIL 15, EXPOSED SOIL SHALL BE PROTECTED FROM EROSION AT ALL TIMES...
4. HAVE A STANDBY CREW FOR EMERGENCY WORK AVAILABLE AT ALL TIMES DURING THE RAINY SEASON...
5. CONSTRUCT TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN AND/OR AS DIRECTED BY THE ENGINEER...
6. INCORPORATE ADEQUATE DRAINAGE PROCEDURES DURING THE CONSTRUCTION PROCESS TO ELIMINATE EXCESSIVE PONDING AND EROSION...
7. CONSTRUCT AND MAINTAIN EROSION CONTROL MEASURES TO PREVENT THE DISCHARGE OF EARTHENY MATERIALS TO THE CREEK FROM DISTURBED AREAS UNDER CONSTRUCTION AND FROM COMPLETED CONSTRUCTION AREAS...
8. INSTALL ALL PROTECTIVE DEVICES AT THE END OF EACH WORK DAY WHEN THE FIVE-DAY RAIN PROBABILITY EQUALS OR EXCEEDS 30 PERCENT AS DETERMINED FROM THE NATIONAL WEATHER SERVICE FORECAST OFFICE: WWW.NWS.NOAA.GOV...
9. REMOVE ALL SILT AND DEBRIS FROM CHECK BERMS AND PUMP SEDIMENTATION BASIN DRY AFTER A RAINSTORM...
10. THE EROSION CONTROL DEVICES ON THIS PLAN ARE A SCHEMATIC REPRESENTATION OF WHAT MAY BE REQUIRED...
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EROSION CONTROL DEVICES AND TO MODIFY THOSE DEVICES AS SITE PROGRESS DICTATES...
12. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES...
13. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ANY EROSION OR DEBRIS SPILLING ONTO A PUBLIC STREET...
14. THE CONTRACTOR SHALL CONTACT THE ENGINEER IN THE EVENT THAT THE EROSION CONTROL PLAN AS DESIGNED REQUIRES ANY SUBSTANTIAL REVISIONS...
15. CONTRACTOR SHALL BE FAMILIAR WITH THE CONDITIONS OF APPROVAL OF ALL REQUIRED PROJECT PERMITS AND SHALL IMPLEMENT ALL REQUIRED BMP'S PRIOR TO COMMENCING GRADING OPERATIONS...

Technical Specifications

For

Zayante Creek Habitat Enhancement Project

Prepared for

**Resource Conservation District of Santa Cruz County
State Coastal Conservancy**

100% Draft Submittal

January 16, 2018

FOR USE IN CONNECTION WITH
**STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD
SPECIFICATIONS, CURRENT EDITION**

**Zayante Creek Habitat Enhancement Project
Technical Specifications
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MOBILIZATION

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SECTION 015000 TEMPORARY FACILITIES AND CONTROLS (a.k.a. Mobilization & Demobilization)

1. GENERAL

1.1 DESCRIPTION

- A. The work covered by this section consists of the construction facilities and temporary controls, including mobilization and demobilization, as specified, as shown on the Drawings, or as otherwise directed by the Engineer. Work includes traffic control, temporary fencing – type ESA, and erosion control items not specifically addressed under other pay items.
- B. Mobilization shall consist of preparatory work and operations, including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the site; for the establishment of all offices, and other facilities necessary for work on the project; and for all other work and operations which must be performed, or costs incurred prior to beginning work, on the various items on the project site.
- C. Demobilization shall consist of work and operations necessary to disband all mobilized items and cleanup the site. The removal of all temporary crossings, ramps, access ways, roads, signs, and fencing; dewatering facilities; and temporary facilities or works, and the restoration of surfaces to an equal or better than existing condition shall also be included as part of demobilization.

1.2 RELATED SECTIONS

- 1. Section 015626, Temporary Fence – Type ESA
- 2. Section 015713.02, Silt Fence

2. PRODUCTS

2.1 TEMPORARY CHAIN LINK FENCING

- A. Unless otherwise indicated, type of temporary chain link fencing shall be Contractor's option. Following types are acceptable:
 - 1. New materials or previously used salvaged chain link fencing in good condition.
 - 2. Posts: Galvanized steel pipe of diameter to provide rigidity. Post shall be suitable for setting in concrete footings, driving into ground, anchoring with base plates, or inserting in precast concrete blocks.
 - 3. Fabric: Woven galvanized steel wire mesh. Provide in continuous lengths to be wire tied to fence posts or prefabricated into modular pipe-framed fence panels.

2.2 GATES

- A. Provide personnel and vehicle gates of the quantity and size required for functional access to site.
- B. Fabricate of same material as used for fencing.
- C. Vehicle gates: minimum width of 20 feet to allow access for emergency vehicles. Capable of manual operation by one person.

3. EXECUTION

3.1 CONTRACTOR'S PLANT AND EQUIPMENT

- A. Security. Contractor shall, at all times, be responsible for security of their plant and equipment. Owner shall not be responsible for missing or damaged equipment, tools, or personal belongings.
- B. Construction Power and Communication Facilities. Contractor shall be responsible for providing sufficient electrical power and communication facilities to construct the work.
- C. Storage Facilities.
 - 1. Provide storage facilities for the protection of materials and supplies from weather, and shall keep the facilities clean and in proper order at all times.
 - 2. Provide a storage area for lubricants, oils, and hazardous materials with sufficient means to contain spills. Facilities, handling, and any required cleanup will comply with all current local, state, and federal standards. Petroleum products stored on the site shall be secured from vandalism.
- D. Sanitary Facilities. Maintain adequate toilet facilities at or near the work site.
- E. Solid Waste Handling. Provide sufficient solid waste handling facilities to maintain site in a clean, orderly condition.
- F. Water. Contractor shall provide all water necessary for construction and maintenance as specified.

3.2 MOBILIZATION AND DEMOBILIZATION

- A. General. Perform mobilization and demobilization activities in accordance with the Drawings, and as specified.

3.3 PROJECT SIGNS

- A. General. Erect project, safety and hard hat signs at each work site within five (5) days after commencement of work at that site.

3.4 EXCAVATION

- A. The Contractor, and any subcontractor, is required to notify U.S.A. forty-eight hours in advance of performing excavation work, by calling the toll free number (800) 642-2444.

3.5 PROTECTIVE BARRIERS

- A. Protective barriers shall be erected around sensitive areas as designated on the Drawings or as directed by the Engineer. Barriers shall be constructed using bright orange plastic safety fencing (type ESA), per Section 015626, Temporary Fence – Type ESA.
- B. Temporary fencing shall be maintained during construction. Except as directed by the Engineer, barriers shall be removed after completion of work.

3.6 BULLETIN BOARD

- A. Provide a bulletin board at the project site, or in a location approved by the Engineer. The bulletin board shall be easily accessible at all times and shall contain wage rates, equal opportunity notice, and other items required to be posted.

3.7 CHAIN LINK FENCING

- A. Chain link posts:

1. Space as 10 foot on center, maximum.
 2. Drive posts, set in holes and backfill, or anchor in precast concrete blocks.
 3. For soft and unstable ground conditions, cast concrete plug around post.
 4. Posts over pavement: Use steel post plates or precast concrete blocks.
 5. Gate posts: Use bracing or concrete footings to provide rigidity for accommodating size of gate.
- B. Fabric: Securely attach to posts.
- C. Gates: Install with required hardware.
- D. Maintain fencing in good condition. If damaged, immediately repair.
- E. Removal:
1. When Temporary Fence is no longer required, as determined by the Engineer, it shall be removed and disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the State Specifications, except when reused as provided in this section.
 2. Holes caused by the removal of Temporary Fence shall be backfilled in conformance with the provisions in Section 15-1.02, "Preservation of Property," of the State Specifications.

3.8 STAGING AREAS

- A. General. Staging areas at the project site are provided for the Contractor's use. By making this area available to the Contractor, the Engineer, and any other person or agency connected with the properties shall in no way be responsible or liable for any activity of the Contractor, subcontractors, or any individual or organization connected with the project.
- B. Alternative Staging Areas. Alternative sites must be acceptable to Owner, and the Contractor must make all arrangements for their use at the Contractor's expense, and in accordance with all local, State and Federal regulations.
- C. Additional Storage Areas. Should the Contractor require space in addition to that available on-site, the Contractor shall make arrangements for storage of materials and equipment in locations off the construction site, and shall provide the Engineer a copy of the letter of authorization for storage from the Owner.

3.9 DUST CONTROL

- A. General. The Contractor shall be responsible for the control of dust within the limits of the project at all times. The Contractor shall take whatever steps are necessary to eliminate the nuisance of blowing dust. Responsibility for any damage to property, crops, or orchards from dust caused by the Contractor's operations shall be borne by the Contractor.
- B. Dust Control. Periodically, water or otherwise treat access roads and haul roads, as required to suppress dust. Cover or control water content of earthen materials being hauled, as required to control dust emissions. Cover or otherwise stabilize soil stockpiles to prevent erosion by wind.
- C. Cleanup. The Contractor shall keep all streets, roadways, and easements, as well as all ground adjacent to the project site, clean and free of dust, mud and debris resulting from the Contractor's operations. Daily cleanup throughout the project shall be required as the Contractor progresses with the work. Spillage of earth, gravel, concrete, asphalt, or other materials resulting from hauling operations along or across any public street or private driveway or access road shall be removed immediately by the Contractor.

3.10 HAZARDOUS MATERIALS CONTROL AND SPILL PREVENTION PLAN

- A. General. Before starting work on the project, the Contractor shall submit for acceptance by the Engineer a Hazardous Materials Controls and Spill Prevention Plan. The Plan shall include provisions for preventing hazardous materials from contaminating soil or entering water courses and shall establish a Spill Prevention and Countermeasure Plan.
- B. Facilities. Provide staging and storage areas for equipment, as required to contain contaminants away from water courses. Provide a contained, locked storage facility for fuels, lubricants, construction chemicals and other hazardous materials and supplies stored at site.
- C. Equipment Maintenance. Clean and maintain equipment to prevent any leakage of fuel and lubricants. Establish a designated equipment refueling area. All fueling and maintenance of vehicles and other equipment and staging area shall occur at least 75 feet from any riparian habitat or water body.
- D. Spills Countermeasures. Isolate work areas during in-water construction activities by using oil containment booms. Maintain a supply of oil booms, sorbent pads and other supplies to contain and clean spills. Contain and cleanup any hazardous material spills immediately and notify Engineer.

3.11 CONSTRUCTION SITE HOUSEKEEPING

- A. Remove rubbish, trash, and debris from site on a regular basis. Transport and dispose of all rubbish and debris in accordance with all local regulations. Maintain staging area in an orderly manner. Regularly clean mud and debris, resulting from work at the site, from roadways; per SWRCB General Permit governing pollution from construction activities, sweeping and washing construction site sediment tracked onto roadways into roadside ditches is a violation.

3.12 PROTECTION OF EXISTING IMPROVEMENTS

- A. Existing facilities, utilities, and property shall be protected from damage resulting from the Contractor's operations. Roadways and other improved surfaces shall be protected from damage by vehicles with tracks or lugs. Any damage resulting from the Contractor's operations shall be repaired by the Contractor to the condition which existed prior to the damage, and to the satisfaction of the Engineer, at no additional cost to the Owner.

3.13 RESTORATION OF STRUCTURES AND SURFACES

- A. Structures, Equipment, and Pipework. The Contractor shall remove such existing structures, equipment, and pipework as may be necessary for the performance of the work, and shall rebuild, or replace, the items thus removed in as good a condition as found. Contractor shall repair any existing structures that were damaged as a result of the Work.
- B. Roads and Streets. Roadways used by the Contractor for hauling materials, equipment, supplies, etc., shall be cleaned and repaired if the condition of the roadway is damaged, or otherwise affected, due to the Contractor's operations.
- C. Curbs, Gutters, Driveways, and Sidewalks. All curbs, gutters, driveways, sidewalks, and similar structures that are broken, or damaged, by the installation of the work shall be reconstructed by the Contractor. Reconstruction shall be of the same kind of materials with the same finish, and in not less than the same dimensions as to original work. Repairs shall be made by removing and replacing the entire portions between joints or scores, and not merely refinishing any damaged part. All restoration work shall match the appearance of the existing improvements, as nearly as possible.

- D. Cultivated Areas and Other Surface Improvements. All cultivated and natural areas, either agricultural or lawns, and other surface improvements which are damaged by actions of the Contractor, shall be restored, including roadside drainage ditches, as nearly as possible, to their original conditions.

3.14 STORAGE OF MATERIALS AND EQUIPMENT

- A. Materials and equipment shall be stored so as to ensure the preservation of their quality and fitness for the work. Stores of equipment and materials shall be located so as to facilitate inspection. The Contractor shall be responsible for all damages that occur in connection with the care and protection of all materials and equipment, supplied by the Contractor, until completion and final acceptance of the Work by the Owner.

3.15 TRAFFIC CONTROL

- A. General. The Contractor shall be responsible for public safety and traffic control at all times.
- B. The Contractor shall furnish, install, and maintain temporary construction warning signs, flaggers, barricades, and other devices necessary to safeguard the general public and the work, and to provide for the safe and proper routing of all vehicular and pedestrian traffic within and through the limits of the project during the performance of the work.
- C. Traffic Control Plan. The Contractor will provide a traffic control plan to the Engineer for review and approval prior to project construction including: access points to East Zayante Road, staging areas, dump sites, operating hours, project duration, scheduling and phasing, and total number of construction vehicles and their respective haul routes, per project phase.
- D. All work shall comply with the 2010 Caltrans Manual on Uniform Traffic Control Devices, available on the internet at:
- E. http://www.nrcs.usda.gov/Technical/ENG/construction_specs.html
- F. <http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/pdf/camutcd2010/Part6.pdf>
- G. Contractor to prepare and submit to the RCD and the County of Santa Cruz for approval, a written traffic control plan. The plan shall be submitted at least two weeks prior to construction. It shall be the sole responsibility of the Contractor to coordinate with the County of Santa Cruz and obtain necessary approvals.

4. MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Work under this section will be measured for payment on a lump sum basis.

4.2 PAYMENT

- A. The lump sum contract price for Construction Facilities and Temporary Controls, also known as Mobilization and Demobilization, will include full compensation for the furnishing of all labor, materials, tools, equipment, administrative costs, and incidentals for mobilization; demobilization; and temporary facilities and controls.
- B. Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Mobilization & Demobilization	Lump Sum

END OF SECTION

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SECTION 015626 TEMPORARY FENCE – TYPE ESA

1. GENERAL

1.1 DESCRIPTION

- A. Work under this section includes furnishing all labor, materials, equipment, and incidentals to install, maintain, and remove Temporary Fence – Type ESA , as shown on the Drawings, as specified, or as otherwise directed by the Engineer.

1.2 RELATED SECTIONS

- 1. Section 015000, Mobilization
- 2. Section 311100, Clearing and Grubbing
- 3. Section 312316, Stripping and Excavation

1.3 REFERENCES

- A. State of California, Department of Transportation (CALTRANS) State Standard Specifications, current edition

1.4 SUBMITTALS

- A. Submit to the Engineer, for review, the following:
 - 1. Manufacturer’s data for proposed fencing fabric.
 - 2. Manufacturer’s data or descriptive literature for proposed fence posts.

2. PRODUCTS

2.1 MATERIALS

- A. High Visibility Fabric. High visibility fabric shall be machine produced, orange colored mesh manufactured from polypropylene or polyethylene. High visibility fabric may be made of recycled materials. Materials shall not contain biodegradable filler materials that can degrade the physical or chemical characteristics of the finished fabric. High visibility fabric shall be fully stabilized ultraviolet resistant and a minimum of four feet in width with a maximum mesh opening of 2” x 2”. High visibility fabric shall be furnished in one continuous width and shall not be spliced to conform to the specified width dimension.
 - B. Posts. Posts for temporary fence (Type ESA) shall be of one of the following:
 - 1. Wood posts shall be fir or pine, shall have a minimum cross section of 2” x 2”, and a minimum length of 5.25 feet. The end of the post to be embedded in the soil shall be pointed. Wood posts shall not be treated with wood preservative.
 - 2. Steel posts shall have a “U,” “T,” “L,” or other cross sectional shape that resists failure from lateral loads. Steel posts shall have a minimum weight of 0.75 pounds per linear foot and a minimum length of 5.25 feet. One end of the steel post shall be pointed and the other end shall have a high visibility colored top.
 - C. Fasteners. Fasteners for attaching high visibility fabric to the posts shall be as follows:
-

1. The high visibility fabric shall be attached to wooden posts with commercial quality nails or staples, or as recommended by the manufacturer or supplier.
 2. Tie wire or locking plastic fasteners shall be used for attaching the high visibility fabric to steel posts. Maximum spacing of tie wire or fasteners shall be 24 inches along the length of the steel post.
- D. Used materials may be installed provided the used materials conform to these Specifications.

3. EXECUTION

3.1 INSTALLATION

- A. All fence construction activities shall be conducted from the work side of the ESA as shown on the Drawings or as flagged in the field by the Engineer.
- B. Posts shall be embedded in the soil a minimum of 16 inches. Post spacing shall be eight feet maximum from center to center and shall at all times support the fence in a vertical position.
- C. Temporary fence (Type ESA) shall be constructed prior to clearing and grubbing work, shall enclose the foliage canopy (drip line) of protected plants, and shall not encroach upon visible roots of the plants.
- D. Temporary fence (Type ESA) shall be located so that it is clearly visible, as determined by the Engineer.

3.2 MAINTENANCE

- A. Temporary fence (Type ESA) that is damaged during the progress of the work shall be repaired or replaced by the Contractor the same day the damage occurs.

3.3 REMOVAL

- A. When Type ESA fence is no longer required, as determined by the Engineer, it shall be removed and disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the State Specifications, except when reused as provided in this section.
- B. Holes caused by the removal of temporary fence (Type ESA) shall be backfilled in conformance with the provisions in Section 15-1.02, "Preservation of Property," of the State Specifications.

4. MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Temporary Fence – Type ESA will not be separately measured for payment.
- B. Temporary Fence – Type ESA will be measured by the linear foot of Temporary Fence – Type ESA installed at the locations indicated on the Drawings, as specified, or as directed by the Engineer.

4.2 PAYMENT

- A. No separate payment will be made for Temporary Fence – Type ESA. Full compensation for all costs associated with this work shall be paid for under Section 015000, Construction Facilities and Temporary Controls.

END OF SECTION

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FIBER ROLL

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SECTION 015713.01 FIBER ROLL

1. GENERAL

1.1 DESCRIPTION

- A. Work under this Section includes furnishing all labor, materials, equipment, and incidentals to install, maintain, remove and dispose of Fiber Roll, as shown on the Drawings, as specified herein, or as otherwise directed by the Engineer.
- B. Fiber Roll shall be furnished, installed, and maintained at the locations shown on the Drawings, and as specified. Fiber Roll shall be installed on excavation and embankment slopes and other disturbed soil areas, active or non-active.
- C. Related Sections
 - 1. Section 015000, Mobilization
 - 2. Section 312316, Stripping and Excavation

1.2 SUBMITTALS

- A. Submit to the Engineer, for review, the following manufacturer's data and Certification's:
 - 1. A certificate stating the name of the Fiber Roll manufacturer, product name, style compositions of filaments or yarns and other pertinent information to fully describe the geotextile, along with the manufacturer's certification of compliance with the material specifications contained herein.

2. PRODUCTS

2.1 MATERIALS

- A. Fiber Roll materials may generally be either of the two types indicated below, unless coir rolls are specifically specified on the Drawings. Where coir rolls are indicated on the drawings, straw rolls will not be allowed as a substitute.
- B. Coir Roll. Coir Roll shall be:
 - 1. A pre-manufactured roll made from coconut fiber encapsulated within a biodegradable jute, sisal, or coir fiber netting. The use of plastic/photodegradable netting shall not be allowed. The netting shall have a minimum durability of 2 years after installation. The netting shall be secured tightly at each end of the roll. Rolls shall be between eight inches and 12 inches in diameter. Rolls between eight inches and ten inches in diameter shall have a minimum weight of one pound per linear foot and a minimum length of 20 feet. Rolls between ten inches and 12 inches in diameter shall have a minimum weight of three pounds per linear foot and a minimum length of 10 feet.
- C. Straw Roll. Straw Roll shall be:
 - 1. A pre-manufactured roll made from 100% weed free rice straw and wrapped in a 100% biodegradable tubular 7 oz. Plain Burlap liner. The burlap is Medium Weight Natural Burlap with a 9 X 8 Warp & Fill, and a minimum weight of 7 oz. per square yard. Plastic netting will not be accepted as an alternate.
 - 2. 9-inch rolls shall have a minimum weight of approximately 1.6 pounds per foot.
 - 3. 12-inch rolls shall have a minimum weight of approximately 3.8 pounds per foot.

- D. Stakes. Wood stakes shall be a minimum of 2" x 4" x 24" (ripped diagonally) for Type 1 installation or a minimum of 1" x 2" x 24" in size for Type 2 installation. Wood stakes shall be untreated fir, redwood, cedar, or pine and cut from sound timber. They shall be straight and free of loose or unsound knots and other defects which would render them unfit for the purpose intended. Metal stakes shall not be used.
- E. Rope. Rope shall be biodegradable, such as sisal or manila, with a minimum diameter of 1/4 inch.

3. EXECUTION

3.1 INSTALLATION

- A. Fiber Roll shall be installed as follows:
 - 1. Type 1: Furrows shall be constructed to a depth between three inches and four inches, and to a sufficient width to hold the Fiber Roll. Soil excavated from the trench shall be placed on the uphill or flow side of the roll to prevent water from undercutting the roll. Stakes shall be driven through the center of the roll (perpendicular to the finished grade) at 36 inches apart along the length of the Fiber Roll and stopped at 12 inches from each end of the rolls. Stakes shall be driven to between two and three inches above the top of the roll.
 - 2. Type 2: Rope and notched stakes shall be used to restrain the Fiber Rolls against the slope. Stakes shall be driven into the slope until the notch is even with the top of the Fiber Roll. Rope shall be knotted at each stake and laced between stakes. After installation of the rope, stakes shall be driven into the slope such that the rope will hold the Fiber Roll tightly to the slope. Furrows will not be required.
- B. Fiber Roll shall be placed 10 feet apart along the slope for slope inclination (horizontal:vertical) of 2:1 and steeper, 15 feet apart along the slope for slope inclination between 2:1 and 4:1, 20 feet apart along the slope for slope inclination between 4:1 and 10:1.
- C. The bedding area for the Fiber Roll shall be cleared of obstructions including rocks, clods, and debris greater than one inch in diameter before installation.
- D. Fiber Roll shall be installed approximately parallel to the slope contour and the terminus of rows shall be angled up-slope at 45 degrees for a distance of three feet. Where fiber rolls meet, provide an overlap of two feet, with adjacent rolls tightly abutting each other.
- E. Fiber Roll shall be installed prior to seeding where used without slope protection fabric.
- F. Fiber roll shall be installed over fabric (after seeding) where slope protection fabric is specified.

3.2 MAINTENANCE

- A. The Contractor shall inspect all Fiber Roll immediately after each rainfall, and at least daily during prolonged rainfall. Any deficiencies shall be immediately corrected by the Contractor.
- B. The Contractor shall also make a daily review of the location of Fiber Roll in areas where construction activities have altered the natural contour and drainage runoff to ensure that the Fiber Rolls are properly located for effectiveness. Where deficiencies exist as determined by the Engineer, additional Fiber Rolls shall be installed as directed by the Engineer.
- C. Damaged or otherwise ineffective Fiber Roll shall be repaired or replaced promptly. Fiber Roll shall be maintained to disperse concentrated water runoff and to reduce runoff velocities. Split, torn, or unraveling rolls shall be repaired or replaced. Broken or split stakes shall be

replaced. Sagging or slumping Fiber Roll shall be repaired with additional stakes or replaced. Locations where rills and other evidence of concentrated runoff have occurred beneath the rolls shall be corrected. Fiber Roll shall be repaired or replaced within 24 hours of identifying the deficiency.

3.3 REMOVAL

- A. Fiber Rolls shown on the Drawings shall remain in place after project completion, unless otherwise specified, and be allowed to naturally degrade.

4. MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Fiber Roll will be measured by the linear foot of Fiber Roll installed at the locations indicated on the Drawings, as specified, or as directed by the Engineer.

4.2 PAYMENT

- A. Fiber Roll will be paid for at the contract price per linear foot, which price will be payment in full for furnishing all labor, materials, tools, equipment, and incidentals necessary to install, maintain throughout the construction, and, where specified, to remove Fiber Roll after site stabilization.
- B. Fiber Rolls required or used on a short term basis that are not permanently staked in place or are anticipated to be moved on a daily or routine basis (such as areas immediately adjacent to trench excavations, temporary stockpiles, active areas for soil processing/screening operations, spill containment devices, etc.) shall be considered as included in prices paid for the various contract items of work involved, and no additional compensation will be allowed.
- C. Payment shall be made under:

Pay Item	Pay Unit
Fiber Roll	Linear Foot

END OF SECTION

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SILT FENCE

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SECTION 015713.02 SILT FENCE

1. GENERAL

1.1 DESCRIPTION

- A. Work under this Section includes furnishing all labor, materials, equipment, and incidentals to install, maintain, and remove silt fence, as shown on the Drawings, and as specified, or as directed by the Engineer.
- B. This Specification is applicable to the use of a geotextile as a vertical, permeable interceptor designed to remove suspended soil from overland water flow. The function of a temporary silt fence is to filter and allow settlement of soil particles from sediment-laden water. The purpose is to prevent the eroded soil from being transported off the construction site by water runoff.
- C. Temporary silt fence shall be one of the water pollution control practices for sediment control.

1.2 RELATED SECTIONS

- 1. Section 015000, Mobilization
- 2. Section 312316, Stripping and Excavation
- 3. Section 312319, Dewatering

1.3 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. D 4355 - Test Method for Deterioration of Geotextiles from Exposure to Ultraviolet Light and Water (Xenon-Arc Type Apparatus).
 - 2. D 4491 - Test Methods for Water Permeability of Geotextiles by Permittivity.
 - 3. D 4632 - Test Method for Grab Breaking Load and Elongation of Geotextiles.
 - 4. D 4751 - Test Method for Determining Apparent Opening Size of a Geotextile.
 - 5. D 4833 - Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products.
 - 6. D 4873 - Guide for Identification, Storage, and Handling of Geotextiles.

1.4 SUBMITTALS

- A. Submit to the Engineer for review, the following:
- B. Manufacturer's Data and Certification:
 - 1. The Contractor shall provide the Engineer a certificate stating the name of the silt fence manufacturer, product name, style, chemical compositions of filaments or yarns and other pertinent information to fully describe the silt fence fabric.
 - 2. The Manufacturer is responsible for establishing and maintaining a quality control program to assure compliance with the requirements of the Specification. Documentation describing the quality control program shall be made available upon request.
 - 3. Manufacturing Quality Control (MQC) test results shall be provided upon request.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Silt fence fabric labeling, shipment and storage shall follow ASTM D 4873.
- B. Product labels shall clearly show the manufacturer or supplier name, style name, and roll number.
- C. Each shipping document shall include a notation certifying that the material is in accordance with the manufacturer’s certificate.
- D. Each silt fence roll shall be wrapped with a material that will protect the silt fence from damage due to shipment, water, sunlight, and contaminants.
- E. The protective wrapping shall be maintained during periods of shipment and storage. If the wrapping is damaged prior to installation, the outer wrap of silt fence material must be discarded before installation.
- F. During storage, silt fence rolls shall be elevated off the ground and adequately covered to protect them from the following: Site construction damage, extended exposure to ultraviolet (UV) radiation, precipitation, chemicals that are strong acids or strong bases, flames, sparks, temperatures in excess of 71 deg C (160 deg F)m and any other environmental condition that might damage the silt fence .

2. PRODUCTS

2.1 MATERIALS

- A. At the Contractor’s option, temporary silt fence shall be prefabricated or constructed with silt fence fabric, posts, and fasteners.
- B. Silt Fence Fabric. Silt fence fabric shall be geotextile manufactured from woven polypropylene or polymer material. Silt fence fabric may be virgin, recycled, or a combination of virgin and recycled polymer materials. No virgin or recycled polymer materials shall contain biodegradable filler materials that can degrade the physical or chemical characteristics of the finished fabric. Silt fence fabric shall conform to the following requirements:

Specification	Requirements
Width, inches, min.	36
Grab tensile strength, KN (25 mm grip in each direction) ASTM Designation: D 4632*	0.45, min.
Elongation, percent minimum in each direction ASTM Designation: D 4632*	20, min.
Permittivity, 1/sec., min. ASTM Designation: D 4491	0.1-0.15
Ultraviolet stability, percent tensile strength retained after 500 hours, min. ASTM Designation: D 4355 (xenon-arc lamp and water spray weathering method)	90, min.
* or appropriate test method for specific polymer	

- C. Posts. Posts for temporary silt fence shall be one of the following:
 - 1. Untreated fir or pine, a minimum of 2” x 2” in size, and four feet in length. One end of the post shall be pointed.
 - 2. Steel and have a “U,” “T,” “L,” or other cross sectional shape that can resist failure from lateral loads. The steel posts shall have a minimum weight of 0.8-pound per foot and a minimum length of 4 feet. One end of the steel posts shall be pointed and the other

end shall be capped with an orange or red plastic safety cap which fits snugly to the steel post. The Contractor shall submit to the Engineer for approval a sample of the capped steel post prior to installation.

- D. Fasteners. Fasteners for attaching silt fence fabric to posts shall be as follows:
1. When prefabricated silt fence is used, posts shall be inserted into sewn pockets.
 2. Silt fence fabric shall be attached to wooden posts with nails or staples as shown on the Drawings or as recommended by the manufacturer or supplier. Tie wire or locking plastic fasteners shall be used to fasten the silt fence fabric to steel posts. Maximum spacing of fasteners shall be eight inches along the length of the steel post.

3. EXECUTION

3.1 FIELD ASSEMBLY:

- A. The silt fence fabric shall be installed on the side of the posts facing the slope.
- B. The silt fence fabric at the bottom of the fence shall be buried in a "J" configuration to a minimum depth of 150 mm (six inches) in a trench so that no flow can pass under the silt fence. Mechanically pushing 12 inches of the silt fence fabric vertically through the soil may be allowed if the Contractor can demonstrate to the Engineer that the silt fence fabric will not be damaged and will not slip out of the soil resulting in sediment passing under the silt fence fabric.
- C. The trench shall be backfilled and the soil compacted over the upslope side of the silt fence fabric.
- D. When joints are necessary, filter fence fabric shall be spliced together only at a support post, with a minimum twelve (12) inches overlap and securely sealed or stitched.
- E. The Contractor must demonstrate to the satisfaction of the Engineer that the silt fence fabric can withstand a sediment load of 1/3 the height of the fence.
- F. The posts shall be placed at the spacing as shown on the Drawings. Post should be driven or placed a minimum of 450 mm (18 inches) into the ground. Depth shall be increased to 600 mm (24 inches) if fence is placed on a slope of 3:1 or greater. Where 450 mm (18 inches) depth is impossible to attain, the posts should be adequately secured to prevent overturning of the fence due to sediment loading.
- G. Support fence, if required, shall be fastened securely to the upslope side of the fence post. The support fence shall extend from the ground surface to the top of the silt fence fabric.
- H. When self-supported fence is used, the silt fence fabric shall be securely fastened to fence posts.
- I. Temporary silt fence shall be installed parallel with the slope contour in reaches not to exceed 500 feet. A reach is considered a continuous run of temporary silt fence from end to end or from an end to an opening, including joined panels. Each reach shall be constructed so that the elevation at the base of the fence does not deviate from the contour more than 1/3 of the fence height. The fence shall be placed such that water cannot runoff around the end of the fence; this may be accomplished by constructing end-returns that angle up the slope.
- J. The silt fence should be limited to handle an area equivalent to 90 square meters (100 sy) per three meters (ten feet) of fence. Caution should be used where the site slope is greater than 1:1 and water flow rates exceed three liters (0.8 gallons) per second per three meters (ten feet) of fence.

3.2 INSPECTION

- A. The Contractor shall inspect all temporary silt fences immediately after each rainfall, and at least daily during prolonged rainfall. Any deficiencies shall be immediately corrected by the Contractor.
- B. The Contractor shall also make a daily review of the location of silt fences in areas where construction activities have altered the natural contour and drainage runoff to ensure that the silt fences are properly located for effectiveness. Where deficiencies exist as determined by the Engineer, additional silt fence shall be installed as directed by the Engineer. Damaged or otherwise ineffective silt fences shall be repaired or replaced promptly.
- C. Should the filter fence fabric decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, the fabric shall be replaced promptly.
- D. Sediment deposits shall either be removed when the deposit reaches one third the height of the fence, or a second silt fence shall be installed as directed by the Engineer.

3.3 REMOVAL

- A. The silt fence shall remain in place for the complete duration of the project as necessary to conform to the Project Permit(s) and SWPPP, or until the Engineer directs it be removed. Upon removal, the Contractor shall remove and dispose of any excess sediment accumulations, use hand tools to grade disturbed areas to drain in the pre-disturbance direction, and revegetate all bare areas in accordance with contract requirements. Trimming the silt fence fabric and leaving it in place will not be allowed.
- B. Removed silt fence may be used at other locations provided the silt fence fabric and other material requirements continue to be met to the satisfaction of the Engineer.
- C. Ground disturbance caused by the installation and removal of the temporary silt fence shall be backfilled and repaired in conformance with the provisions in Section 15-1.02, "Preservation of Property," of the Standard Specifications.

4. MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Temporary silt fence will not be separately measured for payment.

4.2 PAYMENT

- A. No separate payment will be made for temporary silt fence. Full compensation for all costs associated with this work, as shown on the Drawings, as specified, or as directed by the Engineer shall be paid for under Section 015000, Construction Facilities and Temporary Controls.

END OF SECTION

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CLEARING AND GRUBBING

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SECTION 311100 CLEARING AND GRUBBING

1. GENERAL

1.1 DESCRIPTION

- A. The work covered by this section consists of furnishing all labor, equipment, and materials necessary to perform the clearing and grubbing, the removal or disposal of all cleared and grubbed materials, and the filling of all grubbing holes, as specified, as shown on the Drawings, or as directed by the Engineer.
- B. Related Sections
 - 1. Section 015000, Mobilization
 - 2. Section 015626, Temporary Fence
 - 3. Section 312316, Excavation
 - 4. Section 312323, Engineered Fill

1.2 REFERENCES

- A. State of California, Department of Transportation (CALTRANS) State Standard Specifications, current edition.

2. PRODUCTS - Not Used

3. EXECUTION

3.1 CLEARING

- A. General. All work shall comply with Section 16, Clearing and Grubbing of the Standard Specifications.
- B. All trees, stumps, down timber, snags, brush, vegetation, old piling, stone, concrete rubble, abandoned structures, and similar debris shall be cleared within the limits of the construction extents, unless otherwise shown on the Drawings or directed by the Engineer.
- C. In areas where grubbing is not required, the clearing operations shall consist of the complete removal of all obstructions above the ground surface.
- D. Contractor shall flag all vegetation to be removed for approval by County Representative prior to its removal. Once the flagging is completed, County Representative will walk the vegetation removal areas and approve them prior to Contractor initiating clearing and grubbing activities.
- E. Contractor shall use hand-operated equipment for clearing and grubbing within the creek channel, (except where mechanized equipment access is provided, as shown on the Drawings) and at any protected natural resource area or tree protection zone per sub-Sections Environmentally Sensitive Area (ESA) Fencing Installation, Section 015626.

- F. Downed plant materials shall be removed from tree protection zones and protected natural resource areas by hand or with equipment located outside fencing. Contractor shall extract debris by lifting the material out, not skidding it across the soil surface.
- G. Trees. Where trees are approved by the County's representative for removal, trees shall be felled in such a manner as to avoid damage to trees left standing, to the existing structures and installations, as well as with due regard for the safety of employees and others. Stumps shall be removed to minimum depth of 4 feet, or to a point where remaining roots are less than 1.5 inches in diameter, whichever depth is greater. Trees located beyond the limits for clearing and grubbing that are not marked for removal, shall be protected from damage, as indicated on the Drawings and as specified.
- H. Vegetation. Vegetation to be removed shall consist of all heavy growth of brush and woody vegetation, unless shown otherwise on the Drawings or directed by the Engineer.
- I. Debris Removal. Abandoned foundations, rip rap, drainage materials, debris, and other unsuitable material and any other debris designated for removal on the Drawings shall be removed and disposed of in accordance with this section. Buried unsuitable debris encountered during excavations shall be removed and disposed of in accordance with Section 312316, Stripping and Excavation.

3.2 GRUBBING

- A. General. Grubbing shall consist of the removal of all stumps, roots, buried logs, old piling, old paving, concrete, abandoned utilities, timbers, fencing, and other objectionable matter encountered.
- B. Limits. Except as noted on the Drawings, the entire area within the limits of the footprint of proposed Habitat Features shall be thoroughly grubbed.
- C. Filling of Holes. All holes caused by grubbing operations, except in borrow areas, shall be excavated with 3 to 1 (horizontal to vertical) side slopes in conformance with Section 312316, Stripping and Excavation. The excavation shall then be backfilled with compacted embankment material in conformance with Section 312323, Engineered Fill.

3.3 DISPOSAL OF DEBRIS

- A. Cleared and Grubbed Materials. Except as hereinafter specified or otherwise indicated on the Drawings, all logs, brush, strippings, concrete, asphalt, timbers, slash, and other non-organic debris which are the products of the clearing and grubbing operations shall be disposed of. Remove any or all of the products of clearing and grubbing operations from the site and dispose of the material at other locations or through other sources arranged for, by, and at the expense of the Contractor, in accordance with applicable laws and ordinances.
- B. Clean woody plant material products of the clearing and grubbing operations not designated for salvage may be chipped and disposed of on site at the location shown on the Drawings, or as specified by the Engineer, subject to approval of the Owner.

4. MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

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- A. Clearing and Grubbing will be measured as a lump sum pay item.

4.2 PAYMENT

- A. Clearing and Grubbing will be paid for at the lump sum contract price, which price will be payment in full for furnishing all labor, materials, tools, equipment and incidentals, and doing all work necessary to complete the clearing and grubbing operation as specified, including disposal or salvage of materials, and restoration of ground surfaces.
- B. Removal and disposal of buried debris, not encountered during grubbing operations, will be paid for in accordance with Section 312316, Excavation – Unsuitable Debris.
- C. Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Clearing and Grubbing	Lump Sum

END OF SECTION

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SECTION 312316 STRIPPING AND EXCAVATION

1. GENERAL

1.1 DESCRIPTION

- A. The work covered by this section consists of furnishing all labor, equipment, materials, and performing all operations necessary to complete Stripping and Excavation, as specified, as shown on the Drawings, or as directed by the Engineer. Work includes, but is not limited to the following:
 - 1. Stripping for removal of vegetation and surface organics.
 - 2. Excavation for removal of unsuitable material.
 - 3. Other miscellaneous excavation incidental to the construction of the improvements.
- B. Over-excavation for placement of RSP is not included within this section, but is considered incidental to the work for which it is required.
- C. Related Sections
 - 1. Section 311100, Clearing and Grubbing
 - 2. Section 312323, Engineered Fill
 - 3. Section 354200, Log Structures
 - 4. Section 354237, Rock Slope Protection

1.2 REFERENCES

- A. State of California, Department of Transportation (CALTRANS) State Standard Specifications (current edition).

1.3 QUALITY ASSURANCE

- A. Comply with all applicable permits and regulations.
- B. Contractor shall provide necessary construction staking and references points, as required to meet the specified tolerances for the work.

2. PRODUCTS

- A. **MATERIALS - SECTION NOT USED.**

3. EXECUTION

3.1 GENERAL

- A. The Contractor shall protect existing utilities in performing any excavation work.

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- B. The Contractor shall comply with all permit conditions in performing any excavation work.
- C. Contractor shall perform an independent earthwork estimate for the purpose of preparing bid prices for earthwork.
- D. The bid price shall include costs for any necessary export and proper disposal of excess or unsuitable earth materials off-site, at locations to be arranged and paid for by the Contractor.

3.2 STRIPPING

- A. Stripping. Strip surfaces of excavations and fill foundations of heavy growth of crops, grass, weeds and other vegetation as specified in Section 311100, Clearing and Grubbing. Greater depths of stripping may be necessary in selected areas to remove vegetation, as determined by the Engineer.
- B. Unless otherwise specified, the stripped materials shall be disposed of off-site, at locations to be arranged and paid for by the Contractor

3.3 EXCAVATION

- A. General. Excavations shall extend into firm, undisturbed native soils. Excavation shall consist of removal of material for embankment foundation preparation, mass excavation and finish grading of the channel and slope improvements, and other miscellaneous excavations to the lines and grades shown on the Drawings, or as directed by the Engineer. In the event that organic materials, yielding sub-grade (pumping) or other deleterious materials are encountered during foundation excavations, they shall be removed as directed by the Engineer.
- B. Control of Water. Water control shall be performed in accordance with project permit conditions and Dewatering, Section 312319 of these Specifications. When water is encountered, either ground water or surface runoff, the Contractor shall furnish, install, maintain, and operate all necessary machinery and equipment required to keep the excavation reasonably free from water, as approved by the Engineer, until the placement backfill material has been completed, inspected, and approved, and all danger of flotation and other damage is removed. Water pumped from the excavation shall be disposed of in such manner as will not cause injury to public or private property, or constitute a nuisance or menace to the public, and the disposal method shall be subject to the approval of the Engineer. Water shall be controlled until work is complete.
- C. Excess Excavation. Care shall be exercised by the Contractor not to excavate below the grades shown on the Drawings, except as specified herein, and as directed by the Engineer. All excavations in excess of the grades shown on the Drawings which are not directed by the Engineer shall be backfilled with compacted embankment at the Contractor's expense, per Section 312323, Engineered Fill.
- D. Temporary Excavations. With exposure and drying, on-site soils may experience progressive sloughing if excavated near vertical and left un-shored during construction. Engineer suggests that the soils on-site should be considered Type C when applying OSHA regulations.

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3.4 UNCLASSIFIED EXCAVATION.

- A. Unclassified Excavation. Unclassified excavation shall consist of the excavation and disposal of all material, regardless of its nature, which is not otherwise classified and paid for under Excavation of Unsuitables or Rock Excavation described below. Unclassified Excavation includes excavation required to reach finished grade. Over-excavation for the placement of materials (e.g. Log Structures) or the removal of unsuitables, as described below under Excavation of Unsuitables, is not included in Unclassified Excavation.

3.5 EXCAVATION OF UNSUITABLES.

- A. Excavation of Unsuitables. Areas of unsuitable in-place soils, as determined by the Engineer, may also be encountered. Material shall not be classified as unsuitable solely based on moisture content. Material within the limits of Excavation, as described above under Unclassified Excavation, or within the limits of over-excavation for the placement of materials (e.g. Log Structures) shall not be classified as unsuitable. The Contractor shall anticipate having to over-excavate areas of unsuitables as directed by the Engineer and dispose of materials. The actual locations of these excavations will be determined in the field by the Engineer. The side slopes of the excavations shall be no steeper than 1 to 1 (horizontal to vertical). The over-excavations shall be backfilled with embankment materials in accordance with Section 312323, Engineered Fill.
- B. Disposition of Unsuitable Materials. The excavated materials that are considered unsuitable based solely on moisture content shall be processed as necessary to meet specification requirements for suitability and used as embankment material. Materials which are unsuitable based on organic content will be ordered wasted and shall be disposed of off-site in accordance to Section 7-1.13, "Disposal of Material Outside the Highway Right of Way", of the State Standard Specifications.

3.6 ROCK EXCAVATION

- A. Rock Excavation. Rock excavation consists of the removal of hard igneous, metamorphic, and/or sedimentary rock in solid beds or masses in original or stratified position which can be removed only by continuous drilling, blasting or the use of pneumatic tools, and all boulders of 5 cubic yards in volume or larger. Material which can be loosened with a pick, frozen materials, soft laminated shale and hardpan, which for convenience or economy is loosened by drilling, blasting, wedging or the use of pneumatic tools, removal of concrete pavement and retaining walls, shall not be classified as rock excavation. When rock is encountered within the limits of the excavation, immediately notify the Owner and Engineer and do not proceed further until instructions are received and measurements made for the purpose of establishing the volume of rock excavation. Contractor shall note that blasting is not approved for this project. The need for specialized rock excavating equipment should be anticipated if rock is encountered.

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4. MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Stripping. Stripping will not be separately measured for payment.
- B. Unclassified Excavation. Unclassified Excavation will not be separately measured for payment.
- C. Excavation - Unsuitable Materials. Excavation to remove materials that are designated by the Engineer as unsuitable for reuse will be measured by the cubic yard from the stripped foundation. Measurement will be based on surveyed cross sections before and after the excavation.
- D. Rock Excavation. Rock Excavation will be measured by the cubic yard of rock excavation, as determined by cross sections surveyed before and
- E. Other Miscellaneous Excavations. All other excavations will not be measured for payment.

4.2 PAYMENT

- A. Stripping. No separate payment will be made for stripping. All costs in connection with this work will be considered incidental to the contract price per cubic yard for Excavation.
- B. Unclassified Excavation. No separate payment will be made for Unclassified Excavation. All costs in connection with this work will be considered incidental to the cost of construction of Habitat Features per Section 354200, Log Structures.
- C. Excavation - Unsuitable Materials, measured as specified above, will be paid for at the contract unit price per cubic yard, which price will be payment in full for furnishing all labor, materials, tools, equipment and incidentals, and doing all work necessary to complete the excavation as specified, including dewatering, all handling of materials, and disposal of unsuitable materials.
- D. Rock Excavation, measured as specified above, will be paid for at the contract unit price per cubic yard, which price will be payment in full for furnishing all labor, materials, tools, equipment and incidentals, and doing all work necessary to complete the Rock Excavation as specified, including dewatering, all handling of materials, and disposal of unsuitable materials.
- E. No separate payment will be made for other miscellaneous grading incidental to the work. All costs in connection with this work will be considered incidental to the cost of construction of associated improvement.
- F. Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Excavation – Unsuitable Materials	Cubic Yard
Rock Excavation	Cubic Yard

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END OF SECTION

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SECTION 312319 DEWATERING

1. GENERAL

1.1 DESCRIPTION

- A. Furnish all labor, materials, equipment, and incidentals necessary to relocate fish and to design, construct, operate, maintain, and remove all cofferdams, flumes shoring, diversions, filtration systems and/or other measures, including pumping, to dewater the construction site and to divert streamflow and other surface waters through or around the project area 24 hours a day during the entire field construction period, as shown on the Drawings, as specified, or as directed by the Engineer.
- B. Dewatering details on the Drawings (if provided) are schematic. The design and implementation of the Dewatering Plan is solely the responsibility of the Contractor. Contractor shall make their own independent evaluation of water sources (surface and groundwater) in preparing their Dewatering Plan.
- C. Dewatering shall comply with all project permit conditions, applicable laws and local ordinances.

1.2 RELATED SECTIONS

- 1. Section 015713.01, Fiber Roll
- 2. Section 312316, Stripping and Excavation
- 3. Section 354200, Log Structures
- 4. Section 354237, Rock Slope Protection

1.3 SUBMITTALS

- A. The Contractor shall submit the following for review and approval of the Engineer:
 - 1. A Fish Removal and Dewatering Plan listing materials, method of work, equipment to be used, methods for disposal of pumped water, provisions to prevent scour and erosion, and the proposed schedule shall be submitted to the Engineer. Approval of the Engineer shall be required before the Contractor proceeds with water control measures.
 - 2. Product data for:
 - a) pumps
 - b) silt control filter fabric
 - c) washed rock
 - d) impervious liners
 - e) cofferdam material
 - f) other materials used in dewatering
 - g) block nets for excluding fish

1.4 QUALITY ASSURANCE

- A. Comply with approved Hazardous Materials Control and Spill Prevention Plan, in accordance with Section 015000 paragraph 3.10.
- B. Notify Engineer 48 hours in advance of installation of temporary cofferdam(s) or diversion.
- C. Notify Engineer 48 hours in advance of removal of temporary cofferdam(s) or diversion.

2. PRODUCTS

2.1 MATERIALS

- A. General. The Contractor shall be responsible for sizing and design of temporary cofferdams, well points, pumps, drains, pipes and other diversion and dewatering facilities. Comply with Drawings and regulatory requirements.
- B. Imported Rock. Use only clean washed rock. Other materials, if used, shall be removed from river channel when dewatering work is complete.
- C. Dewatering Facilities. Provide and operate dewatering facilities of suitable size and capacity. The use of equipment shall be consistent with the manufacturer's recommendations.
- D. Silt Fence. Comply with Section 015713.02, Silt Fence.
- E. Block Nets. Block Nets shall be 1/4 inch opening nylon mesh net.

3. EXECUTION

3.1 GENERAL

- A. Contractor is solely responsible for the design, construction, and maintenance and monitoring of the diversion and dewatering facilities. Comply with the Drawings, Specifications, and applicable permit conditions.

3.2 FISH REMOVAL

- A. Contractor is responsible for providing Fish Removal by a qualified fisheries biologist as specified on the Drawings and as outlined in the project permits.

3.3 SEDIMENT CONTROL

- A. General. Comply with Section 401 Water Quality Certification.
- B. Materials. Earthen materials shall not be used within the flowing channel, with the exception of clean, washed rock.
- C. Cofferdam Construction. During construction of the cofferdam, install silt barrier(s) along the water side of the installation, as necessary to minimize mobilization and entrainment of disturbed soils within the active flowing channel, to a level in accordance with the permit conditions.
- D. Discharge of diverted flow. Unless otherwise specified, a diversion must discharge into the same natural drainage way in which its headworks are located. Where feasible, discharge to

existing pools or onto bedrock or otherwise erosion resistant surfaces. Construct energy dissipators at diversion outlets, where necessary to prevent scour at point of discharge.

- E. Discharge of Seepage/Groundwater. Discharge water from the dewatered construction site either by gravity or pumping in a manner to prevent excessive turbidity from entering the receiving waters and to prevent scour and erosion outside of the construction site. Pumped water should be pre-filtered with sand/gravel pack around sumps for subsurface flows and a silt fence or hay bales around pumps for surface flow.
- F. Discharge pumped water into adjacent gravel bars, isolated local depressions, or temporary sediment basins. Where discharging water into the river will create excessive turbidity, route water through a sediment interceptor or other facilities to remove sediment from water.
- G. Isolation of Construction Area. Place silt fences, hay bale barriers, or cofferdams between construction area and flowing river channel, at all locations.

3.4 HAZARDOUS MATERIAL CONTROL

- A. General. Comply with the approved Hazardous Materials Control and Spill Prevention Plan (HMC&SPP) in accordance with Construction Facilities and Temporary Controls, Section 015000.
- B. Equipment and Lubricants. Steam-clean all equipment prior to its use. Inspect all equipment for cleanliness and fluid leaks prior to use and monitor during its use. Maintain equipment as required. Equipment refueling shall only take place in a designated, contained area.
- C. Isolation of Construction Area. Prior to performing work within flowing water, outside of cofferdams, install oil containment booms downstream of the work area. Maintain booms until completion of the work within the channel is complete.
- D. Spills. Maintain a supply of oil spill booms, sorbent pads, and other supplies to contain and clean spills. Comply with approved HMC&SPP should spills occur.

3.5 COFFERDAMS

- A. General. The Contractor is solely responsible for the design, construction, maintenance, and monitoring of cofferdams, dikes and other isolation facilities. Cofferdams with an exposed height greater than 10 feet shall be designed by a Professional Engineer registered in the State of California, based on available soil data.
- B. Configuration. Cofferdam alignments, as shown on the Drawings, reflect the maximum allowable encroachment into the channel. Construct cofferdam alignments as shown on the Drawings, unless otherwise approved by Engineer. Provide cofferdams high enough to account for water surface fluctuations.
- C. Secondary Dikes/Seepage Control. Secondary dikes within the isolated construction area can be used to control seepage and groundwater around excavations, provided all dike materials are removed from the exposed channel upon completion, prior to re-watering the work area.

3.6 FLOW BYPASS

- A. Capacity. Bypass water around construction site using a cofferdam and bypass pipe as shown on the Drawings or equivalent facility, as approved by the Engineer. The bypass system shall be capable of passing the flows present at the time construction begins, with a minimum of 12

inches of freeboard (measured vertically from water surface to lowest point on dam). Bypass pipes shall have a minimum diameter of 10 inches to minimize the likelihood of clogging by debris.

- B. Storm Events. During the designated period for instream work, the Contractor shall be solely responsible for the integrity of the dewatering system. If rain is predicted, the Contractor shall perform flood fighting activities as directed by the Engineer and regulatory agencies.
- C. The diversion system may require adjustment to accommodate the sequence of work. No additional compensation shall be provided for any adjustments, revisions, or reinstallations of diversion elements.
- D. The diversion shall result in conditions that allow the required compaction to be achieved and shall prevent sediment-laden water that exceeds the effluent discharge limits from entering the drainage ways.
- E. Unless otherwise specified, a diversion must discharge into the same natural drainage way in which its headworks are located.

3.7 DEWATERING

- A. General. Remove water from construction area using pumping, well points, drains, or other approved methods. Discharge of water shall comply with 3.3.D. Construction water shall be segregated from seepage water and routed through sediment interceptors or other facilities to remove contaminants and sediment. Excavated slopes in the saturated soils may need to be retained, tied back, or otherwise stabilized.
- B. Well Points. Well points shall be designed to preclude the loss of fine soil by sand/gravel packing or other suitable means.
- C. Pumping Facilities. All pump intakes shall be screened to prevent the entrainment of fish, in accordance with project permit conditions. Pumps and discharge piping shall be suitable for the type of service provided and shall be a sufficient size and capacity to satisfactorily dewater work areas. Engines shall be muffled to avoid excess noise and pump intakes shall be fitted with screens as required.
- D. Power Supply. Consider the availability and reliability of power sources for dewatering operation in dewatering system design and make provisions for temporary or backup power supply as deemed necessary. Where the primary diversion is operated by pumping, provide a backup system with automatic controls capable of starting the backup upon failure of the primary system.
- E. Groundwater. Dewatering shall maintain water surfaces below the base of temporary excavations or trenches, to allow for visual inspection of the work, if requested by the Engineer. Lower groundwater tables within excavations for structures to a minimum of two (2) feet below foundations or as otherwise required to establish a firm, stable foundation. Control groundwater within excavation until completion of backfill operations.

3.8 WATER LEVELS DURING THE CONSTRUCTION PERIOD

- A. The Contractor shall be responsible for making an independent evaluation of site conditions. The Contractor's dewatering plan shall address all potential sources of surface and

groundwater, including but not limited to streamflow (natural or managed), backwatering of the channel from downstream blockages, domestic water lines, storm drain outfalls, irrigation tailwater, industrial discharges, seepage, and direct rainfall.

3.9 CLEANUP

- A. Thoroughly clean up area to remove debris and contaminated materials. Remove fine sediments and restore disturbed area prior to removal of the dewatering facilities. Clean and round river run gravels or cobbles, if used in cofferdam construction, may be spread in the creek channel in lieu of removal, provided grading will not interfere with facility operation.

3.10 REMOVAL OF DEWATERING FACILITIES

- A. Prior to removal of the dewatering facilities, complete the following activities:
 - 1. Complete required tests and inspections.
 - 2. Thoroughly cleanup work site.
 - 3. Perform final walkthrough with Engineer.
- B. Prior to removal of cofferdams and diversion, equalize the water surface levels on both sides of the dams.

3.11 REMOVAL OF BLOCK NETS

- A. Block Nets shall be removed by the fisheries biologist after the dewatering facilities are removed and the in channel work area is re-watered.

4. MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Dewatering will not be separately measured for payment.
- B. Fish Removal will not be separately measured for payment.

4.2 PAYMENT

- A. Dewatering will be paid for at the lump sum contract price for Dewatering, which price will include payment in full for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the dewatering operations, as specified, including temporary cofferdams, pumping, silt control, filter fabric, sediment control, erosion control, removal of muck, disposal of materials, and removal of dewatering facilities.
- B. No separate payment will be made for Fish Removal. Full compensation for all costs associated with this work, as shown on the Drawings, or as specified, shall be paid for under Dewatering.

<u>Pay Item</u>	<u>Pay Unit</u>
Dewatering	Lump Sum

END OF SECTION

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SECTION 312323
ENGINEERED FILL

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SECTION 312323 ENGINEERED FILL

1. GENERAL

1.1 DESCRIPTION

- A. The work covered by this section consists of furnishing all plant, labor, and materials, and performing all operations necessary for the construction of Engineered fills (unless separately designated elsewhere), including subgrade preparation, furnishing, loading, and on-site and off-site hauling of materials, processing, screening placement and compaction of Engineered Fill materials, construction of ramps, and other incidental earthwork as may be necessary to complete the Engineered Fills, as shown on the Drawings, as specified, or as otherwise directed by the Engineer.
- B. All grading shall comply with Section 19 of the Standard Specifications. It shall be the responsibility of the Contractor to visit the site and make his own interpretations with regard to materials, methods and equipment necessary to perform the work required for this project.
- C. Temporary erosion control and BMP's shall be installed and approved by the Engineer prior to beginning Engineered Fill Construction.
- D. The Contractor is responsible to locate, identify, and protect all existing utilities from damage.

1.2 RELATED SECTIONS

- 1. Section 311100, Clearing and Grubbing
- 2. Section 312316, Stripping and Excavation
- 3. Section 354200, Log Structures
- 4. Section 354237, Rock Slope Protection

1.3 REFERENCES

- A. American Society for Testing of Materials (ASTM) Standards:
 - D1556 Test Method for Density of Soil in Place by the Sand Cone Method
 - D1557 Test Method for Moisture-Density Relations of Soils and Soil-Aggregate Moistures Using 10 lb (4.54 kg) Rammer and 18-inch (457 mm) Drop
 - D2974 Test Method for the Organic Content of Soils
 - D2922 Density of Soil and Soil-Aggregate In-Place by Nuclear Methods (Shallow Depth)
 - D3017 Test Method for Moisture Content of Soil and Soil-Aggregate in Place by Nuclear Methods (Shall Depth)
 - D4318 Test Method for the Liquid Limit and Plastic Limit of Soils

D422C Particle-Size Analysis of Soils

- B. State of California, Department of Transportation (CALTRANS) State Standard Specifications, current edition.
- C. NRCS Construction Specification 903 – Engineered Fill, current edition.

2. PRODUCTS

2.1 MATERIALS

- A. Engineered Fill Materials. To the extent they are needed, all suitable materials from the specified excavations shall be used in the construction of required permanent engineered fill. The suitability of materials for specific purposes will be subject to the approval of the Engineer, in conformance with these specifications. Materials used for engineered fill shall conform to the quality and gradation requirements as follows:
 - 1. less than 3% organic material;
 - 2. shall contain no rock or clods greater than 6 inches in diameter;
 - 3. no more than 15 percent larger than 2 ½ inches;
 - 4. The material should be predominantly granular
 - 5. with a plasticity index of less than 15
 - 6. liquid limit less than 35
 - 7. not more than 15 percent passing the #200 sieve
 - 8. shall contain no sod, brush, roots, or other perishable or unsuitable material, and
 - 9. shall be approved by the Engineer prior to use.
- B. Surplus Materials. All surplus or unsuitable excavated materials will be designated as waste and shall be disposed in accordance with Section 312316, Excavation.
- C. Imported Engineered Fill. Importing of Engineered Fill material, if necessary or required to meet the grades and elevations shown on the plans, shall be considered included in the Contractor's bid for the various items of work involved and no additional compensation will be made therefore. Should such imported material be required, the Contractor shall notify the Engineer of the borrow site location at least 72 hours in advance, and provide an adequate sample size so the Engineer can verify the suitability of the material. All imported materials shall be proposed by the Contractor in writing in accordance with the submittal requirements of these Special Provisions and the Standard Specifications. The Contractor shall perform and/or submit all material testing reports and other data as necessary to provide the Engineer with established laboratory values for optimum moisture and maximum dry density, for any imported material requiring density testing. Any proposed engineered fill that deviates from the criteria stated herein, shall have written acceptance from the Engineer and geotechnical engineer prior to import or placement in the work.
- D. If a disagreement between the Contractor and the Engineer occurs over the suitability of materials, the Contractor shall perform laboratory testing to demonstrate compliance with the specifications. The failure of the Contractor to perform the testing shall not relieve the Contractor from the obligation to provide suitable materials.

3. EXECUTION

3.1 ENGINEERED FILL CONSTRUCTION

- A. General. Compacted Engineered Fill in Engineered Fills shall be placed in the dry and compacted as specified herein.
- B. Subgrade Preparation. Following Clearing and Grubbing, the subgrade surfaces shall be graded to remove surface irregularities and shall be scarified parallel to the axis of the fill and loosened to a minimum depth of 2 inches. The moisture content of the loosened material shall be controlled as specified for the Engineered Fill, and the surface materials of the subgrade shall be compacted and bonded with the first layer of Engineered Fill.
- C. Earth abutment surfaces shall be free of loose, uncompacted earth in excess of two inches in depth normal to the slope and shall be at such a moisture content that the Engineered Fill can be compacted against them to ensure a good bond between the fill and the abutments. Subgrade and abutment surfaces shall not be steeper than 1 horizontal to 1 vertical. The sites of the borrow area shall be stripped to sufficient depth to remove all vegetation, roots, brush, sod and other objectionable material. Clearing and disposal methods shall be in accordance with applicable state and county laws with due regards to the safety of persons and property. Fill shall not be placed until the required excavation and subgrade preparation has been completed.
- D. Fill shall not be placed on or in standing water, nor upon a frozen surface, nor shall snow, ice, or frozen material be incorporated in the fill.
- E. If soft, wet, or pumping subgrade soils are present, the required minimum level of compaction for the initial fill lift may be adjusted to eighty-five percent (85%) of the soil's maximum dry density as determined in accordance with ASTM D 1557, subject to approval of the Engineer. The intent of the reduction is to limit the amount of construction traffic that could lead to further deterioration and destabilization of the exposed subgrade and to build a more stable pad upon which to place subsequent fill lifts.
- F. Horizontal Layer Construction. The compacted Engineered Fill shall be constructed to a sufficient section so as to achieve the required compaction throughout the finished section. Materials to be compacted shall be placed or spread in layers not more than eight (8) inches in loose thickness prior to compaction. Materials excavated to form keyways or over-excavations, and suitable for use as Engineered Fill, shall be blended uniformly with other excavated soils or disposed of. All fill placed on slopes steeper than 5 horizontal to 1 vertical shall be keyed and benched as specified in Section 19 of the Standard Specifications. If the surface of any layer becomes too hard and smooth for proper bond with the succeeding layer, it shall be scarified parallel to the axis of the fill to a depth of not less than 2 inches before the next layer is placed. Fill placed around structures will be brought up at approximately uniform height on all sides of the structure.
- G. Compaction. When, in the opinion of the Engineer, the surface of any compacted layer is too smooth to bond properly with the succeeding layer, it shall be scarified to a depth of 6 inches before the succeeding layer is placed thereon. The degree of compaction required is expressed as a percentage of the maximum dry density, based on laboratory test procedure, ASTM D 1557. The Engineered Fill shall be compacted to a minimum of 90% of the maximum dry density, unless otherwise specified herein or directed by the Engineer. Construction equipment shall be operated over each layer of fill to ensure that the required compaction is obtained. Special equipment shall be used if needed to

obtain the required compaction. Heavy compaction equipment shall not be operated within 2 feet of any structure. Fill adjacent to structures, pipe, conduits, and anti-seep collars shall be compacted to a density equivalent to that of the surrounding fill by means of hand tampers or plate vibrators. Hand directed tampers or compactors shall be used on areas not accessible to heavy compaction equipment, fills compacted in this manner shall be placed in layers not greater than 4 inches in thickness before compaction, and shall meet the same density requirement as for the adjacent area.

- H. At the discretion of the Engineer, the top 18 inches of fill, within areas specified to receive revegetation treatments, may be compacted to between 80% and 85% of the maximum dry density, to facilitate plant establishment. Prior to seeding, the surface shall be prepared as specified in Section 329200, Seeding.
- I. Compaction of backfill adjacent to structures shall not be started until after the expiration of the following minimum time interval after placement of the concrete:
 - 1. Counterforts, vertical or near-vertical
 - 2. walls with earth loading on one side only 14 days
 - 3. Walls and counterforts, backfilled on both
 - 4. sides simultaneously 7 days
 - 5. Anti-seep, collars, conduits,
 - 6. and cantilever outlet bents 3 days
- J. Moisture Control. The moisture content required is expressed as a percentage, based on laboratory test procedure ASTM D 1557. The moisture shall be uniformly distributed throughout the layer prior to compaction and shall be at least 1% above the optimum moisture content. If the material is not within the required moisture content, the Contractor will be required to moisture condition the soil. The moisture conditioning of fill materials shall be performed prior to placement in the section. The final minor moisture conditioning may be made on the fill, as required. Harrowing, or other approved methods will be required to work the moisture into the material until a uniform distribution of moisture is obtained. Water applied on a layer of fill shall be accurately controlled in amount and distribution so that free water will not appear on the surface during or subsequent to rolling. If the material is too wet for proper compaction or soft and yielding sub-grade is experienced (pumping), the Contractor will be required to aerate the material to a moisture content within the desired limits prior to compaction. If the top surface of the preceding layer of compacted fill or a subgrade or abutment surface in the zone of contact with the fill becomes too dry to permit suitable bond, it shall either be removed or scarified and moistened to an acceptable moisture content prior to placement of the next layer of fill.
- K. Dressing. Engineered Fill slopes shall be dressed by over-building and cutting back to the required grade. The Contractor may compact the shoulder of each lift during the placement of fill materials to assist in the subsequent dressing of the slopes.

3.2 CROSS SECTIONS AND ZONING OF MATERIALS

- A. Standard Engineered Fill Sections. The dimensions, slopes, and zoning of materials shall conform to the sections shown on the Drawings and specified herein.
- B. Zoning of Materials. Unless otherwise specified, the Engineered Fill materials shall be homogeneous. The Engineered Fill shall be free of pockets, lenses, streaks, layers, etc. of different materials.

3.3 FINISH

- A. The finished grades shall transition naturally into adjacent existing grades to provide a functional and naturalistic finished surface. Due to the complex nature of the project and the desired aesthetic and functional features, not all details can be accurately represented on the Drawings. As a result, the Contractor may be directed by the Engineer to make minor adjustments to finish grades to best achieve these results. These adjustments may include smoothing or rounding conforms, or changing slope angles or daylight points as necessary to conform to the variable geometry inherent in natural topography. Compensation for this work shall be considered as included in the price paid for the various contract items of work involved, and no additional compensation will be allowed.
- B. After the placement of the engineered fills and spoils, the sides and top shall be dressed by final passage of compaction equipment or by dragging to give a smooth surface. The surface area shall be graded to provide surface drainage to flow to desired locations.

3.4 ROADS AND RAMPS

- A. Maintain Access. At locations where access roads to existing facilities are destroyed because of the work required under this contract, the Contractor shall provide temporary roads, if directed by the Engineer, to give access to fields and buildings during the construction period. Such facilities shall be removed to the extent required by the Engineer.
- B. Temporary Haul Roads. Temporary haul roads shall be constructed as required to transport materials from borrow source or excavation to Engineered Fill site. Temporary ramps to be constructed for the Contractors convenience need not comply with these foundation preparation and Engineered Fill construction requirements. Unless otherwise directed by the Engineer, temporary ramps shall be removed prior to completion of the work.

3.5 GRADE TOLERANCES

- A. Engineered Fill:
 - 1. General. Engineered Fills shall be constructed to the net grade and cross section shown on the Drawings.
 - 2. Grade Tolerances. At all points a tolerance of 0.2 (two-tenths) foot above, and 0.1 (zero) foot below the prescribed grade will be permitted in the final dressing, provided that any excess material is so distributed that the crown of the Engineered Fill drains in the desired direction and that there are no abrupt humps or depressions in surfaces. However, this tolerance above grade may be modified at locations where, in the opinion of the Engineer, such modifications will not impair the design or appearance of the project.

3.6 SLIDES

- A. In the event of the sliding of any part of the Engineered Fill during its construction, or during the one year period after acceptance, the Contractor shall, upon written order of the Engineer, cut out and remove the slide and then rebuild that portion of the Engineered Fill.

3.7 SPECIAL MEASURES

- A. Measures and construction methods shall be incorporated as needed and practical that enhances fish and wildlife values. Special attention shall be given to protecting visual resources and maintaining key shade, food, and den trees.

4. MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Payment Engineered Fill. Engineered Fill will not be separately measured for payment.

4.2 PAYMENT

- A. Engineered Fill. No additional payment will be made for Engineered Fill. All costs in connection with this work will be considered incidental to the cost of construction of Habitat Features per Section 354200, Log Structures.
- B. No payment will be made for construction or removal of temporary roads or ramps. All costs in connection with this work will be considered incidental to the cost of construction of Habitat Features per Section 015000, Temporary Facilities and Controls.
- C. No additional payment will be made for costs associated with stabilizing unstable materials. The cost for this work shall be included in contract Lump Sum price for compacted Engineered Fill.

END OF SECTION

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SECTION 329200
SEEDING

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SECTION 329200 SEEDING

1. GENERAL

1.1 DESCRIPTION

- A. Work covered under this section consists of furnishing all labor, tools, materials, equipment and incidentals required to perform Seeding of disturbed surfaces, as specified, as shown on the Drawings, or as directed by the Engineer.

1.2 RELATED WORK

- A. The work described under this section is related to the following sections of the Specifications:
 - 1. Section 015000, Temporary Facilities and Controls
 - 2. Section 311100, Clearing and Grubbing
 - 3. Section 312316, Excavation

1.3 SUBMITTALS

- A. Submit to the Engineer, for review, the following:
 - 1. List of origin/collection location for each seed species
 - 2. A representative one-ounce sample of each seed mixture supplied for the job, labeled as to content, purity, and germination percentage.
 - 3. Duplicate copies of invoices for all materials. Invoices for fertilizer shall show the grade furnished.

1.4 QUALITY ASSURANCE

- A. All seed shall be labeled in accordance with the California Food and Agricultural Code and shall be delivered to the site in sealed individual, unmixed bags with the vendor's certificate attached. Seed shall be sampled and tested in accordance with the State Standard Specifications, Section 21-1.01CY. Seed treated with mercury compounds shall not be used.
- B. Fertilizer shall be delivered in containers labeled in accordance with applicable state regulations and bearing the warranty of the producer for the grade furnished.
- C. Seed which has become wet, moldy, or otherwise damaged in transit or in storage, will not be acceptable.

2. PRODUCTS

2.1 MATERIALS

- A. Seed Source. Seed shall be collected or propagated from source populations within the Central Western (CW) region of the California Floristic Province.

- B. Quantities shown on the Drawings represent pure live seed (pls).
- C. Seed shall be mixed on-site in the presence of the Engineer. At no time shall the seed mix contain noxious weed seed. Seed shall be maintained in optimal health and be protected at all times from animal damage; vandalism; inclement weather conditions, including drought, wind, and frost; toxic water; sunlight; moisture; or contact with vehicles, equipment, and tools and any other conditions that would damage or reduce the viability of the seed.
- D. Seed Mix. The seed mix and application rates are as shown on the Drawings. No substitutions are allowed without written consent of the Engineer.
- E. Straw Mulch. Straw mulch shall be derived from wheat or barley. The Contractor shall furnish evidence that clearance has been obtained from the County Agricultural Commissioner, as required by law, before straw obtained from outside the county in which it is to be used is delivered to the site of the work. Straw that has been used for stable bedding shall not be used. Straw shall be free of mold. Straw shall be cured and dry with no water added after baling. Source must meet or exceed state certification standards for "weed free".

3. EXECUTION

3.1 PREPARATION

- A. General. Seed the areas disturbed by construction activities, as specified herein or as directed by the Engineer.
- B. Debris Removal. Prior to ground surface preparation operations remove and dispose of all wire, rubbish, stones, and other material which might hinder proper grading, and subsequent maintenance.
- C. Surface Preparation. Surfaces which are too hard or smooth to accept the seeding, as determined by the Engineer, shall be broken up to a minimum depth of 6 inches, by disking or other methods approved by the Engineer, until the condition of the soil is acceptable. When conditions are such, by reason of excessive moisture or other factors, that satisfactory results are not likely to be obtained, the work shall be stopped and shall be resumed only when directed. Slopes in excess of 25% shall be prepared by track-walking or equivalent method approved by the Engineer.

3.2 APPLICATION OF SEED

- A. Existing Features. During seeding operations, care shall be taken to avoid damaging existing facilities, vegetation to remain, or any other items on or around the planting areas.
- B. Seeding Areas: Apply seed to areas indicated on the Drawings, or as directed by the Engineer
- C. Time of Seeding: Perform all seeding between September 15th and October 1st of the year construction begins. The seeding operation shall be halted when, in the opinion of the Engineer, conditions of high winds, excessive moisture or other factors are not conducive to satisfactory results. Upon written request of the Contractor, and upon written approval of the Engineer, seeding may be done during off seasons provided that:

1. The resulting stand of grass shall be at least equal to the stand that might be expected from planting during the normal season; and
 2. The establishment period shall be lengthened, as required, to produce the above specified stand at no additional cost to the Owner.
 3. Perform seeding prior to placement of erosion control fabric, where erosion control fabric is specified.
- D. Method of Seeding: Seeding shall be performed mechanically in a dry condition.
- E. Broadcast Seeding. Broadcast seeding shall be dry-applied by the following method:
1. Broadcast seed and fertilizer (if specified), at the rates specified on the Drawings, uniformly by hand, mechanical hand seeder, combination seed spreader and cultipacker, or other approved equipment. Where seed is broadcast by hand or mechanical hand seeder, half the seed shall be sown with the sower moving in one direction, and the remainder sown with the sower moving at right angles to the first sowing. Broadcast seeding shall not be done during windy weather.
 2. Rake seed into the soil to achieve a sowing depth of approximately 1/8 inch to 1/4 inch.
 3. Following the application of seed, straw mulch shall be pneumatically applied or hand broadcast at the rate of 3,000 pounds per acre (typically 1.5 to 2 tons/acre), where erosion control fabric is not specified, and 500 lbs for acre where erosion control fabric will be used.

3.3 REPAIR

- A. General. When any portion of the ground surface becomes gullied or otherwise damaged following seeding within the period of Contractor's responsibility, repair the affected portion to re-establish the condition and grade of the soil prior to planting and then reseed as specified for initial planting, all at no cost to the Owner.
- B. Reseeding. When it becomes evident that the seeding has been unsuccessful, the Engineer will require that these areas be reseeded with the same seed and quantity as specified for the initial seeding. Complete reseeding within fifteen (15) days following notification and these areas shall be maintained by watering, as specified above, until the successful grass is established. Prepare the area to be reseeded as directed by the Engineer, to receive the reseeding.

3.4 FIELD QUALITY CONTROL

- A. During the course of work or upon completion of the project, a check of the quantities of materials will be made against the areas treated, and if the minimum rates of application have not been met, the Engineer will require the distribution of additional quantities of those materials to make up the minimum applications specified.

4. MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Seeding will be measured for payment on a lump sum basis.

4.2 PAYMENT

- A. Seeding will be paid for at the lump sum contract price for Seeding, which price will include furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the Seeding as specified, as shown on the Drawings, or as directed by the Engineer.
- B. The cost of seeding areas outside the designated limits of disturbance shall be solely borne by the Contractor.
- C. Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Seeding	Lump Sum

END OF SECTION

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SECTION 354200
LOG STRUCTURES

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SECTION 354200 LOG STRUCTURES

1. GENERAL

1.1 Description

- A. Work within this section includes furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing the Log Structures (a.k.a. Habitat Features), complete in place, including excavation, and backfilling, connections, log and ballast boulder supply, preparation, and placement, and backfill of voids, as specified, as shown on the Drawings, or as otherwise directed by the Engineer.
- B. Log structures include Type 1 – 4 Habitat Features shown on the Drawings.
- C. Related Sections
 - 1. Section 311100, Clearing and Grubbing
 - 2. Section 312316, Stripping and Excavation
 - 3. Section 312319, Dewatering
 - 4. Section 312323, Engineered Fill
 - 5. Section 354237, Rock Slope Protection

1.2 Submittals

- A. Submit to the Engineer, for review and approval, the following, prior to delivering materials to the work site:
 - 1. Product data sheet for all log/log and log/boulder connection hardware
 - 2. Product data sheet for epoxy
 - 3. Quarry source for the ballast boulders
 - 4. Photos of all Contractor supplied logs. Each log shall be tagged with a number, referenced in the photos.

2. PRODUCTS

2.1 Materials

- A. Ballast Boulders. Conform to the material requirements of **Section 354237, Rock Slope Protection.**
- B. Stream Substrate. Conform to the material requirements of **Section 354237, Rock Slope Protection.**
- C. Chain. Chain shall be Grade 30, 5/8 inch diameter electro zinc plated steel chain with a minimum breaking strength of 6,900 lbs, conforming to ASTM A413M.
- D. Shackle Bolts. Shackle Bolts shall be forged and galvanized screw pin anchor shackles, sized to fit the chain diameter with a working load limit of 3.25 tons, conforming to ASTM A153 and ASTM B695.

- E. Eye Bolts. Eye Bolts shall be hot dip galvanized, forged eye bolts conforming to ASTM A-193-B8 and sized per material specifications shown on the drawings.
- F. Epoxy. Anchoring adhesive shall be a two-component 100% solids epoxy based system supplied in manufacturer's standard cartridge and dispensed through a static-mixing nozzle supplied by the manufacturer. Epoxy shall meet the minimum requirements of ASTM C-881 specification for Type I, II, IV, and V, Grade 3, Class B and C and must develop minimum 12,650 psi compressive yield strength after 7 day cure. Epoxy must have a heat reflection temperature of a minimum 136 degrees Fahrenheit (58 degrees Celsius). Adhesive shall be Epoxy-Tie SET from Simpson Strong-Tie, Dublin, CA, or approved equivalent.
- G. Threaded Rod and Nuts. Threaded Rod and shall be comprised of one of the following at the Contractor's option:
 - 1. Grade 75 all-thread rebar conforming to ASTM A615, bar designation #8.
 - a. Nuts shall be H1F heavy hex nuts conforming to ASTM 194 Grade 2H.
 - 2. B12 Coil Rod conforming to ASTM A29, diameter 1 inch.
 - a. Nuts shall be B25 heavy coil nuts.
- H. Steel Plates. Steel plates shall conform to ASTM A36 and meet the dimensions shown on the Drawings.
- I. Logs.
 - 1. Logs may be imported or salvaged from the construction site, and shall meet the material specifications shown on the Drawings.
 - 2. All logs shall be inspected for approval by the Engineer, prior to installation.
 - 3. Refer to for the Drawings for trees available for salvage/harvest.
- J. Backfill. Backfill shall consist of either "Stream Substrate," or "Engineered Streambed Material", to match surrounding surface treatments shown on the Drawings.

3. EXECUTION

3.1 General

- A. Prior to the start of work, the Engineer shall designate representatives authorized to observe the Contractor's placement of Log Structures. Contractor shall notify the authorized representative 72 hours prior to placement of Log Structures. Construct all Log Structures in the presence of the authorized representative.
- B. Log structure designs are shown conceptually due to the inherent variability of material properties. The design requires that the Engineer will observe construction of the log structures to ensure the intent of the design is met. Observations must include log and boulder selection, placement, connections for ballasting, and placement of backfill. Any

log structures constructed without the Engineer present may result in rejection of the work by the Engineer.

- C. The construction of Log Structures requires equipment which can place rock and logs in precise locations. An excavator of a suitable size and containing a thumb is suggested.
- D. Placement of the foundation logs and rocks is critical to the success of the Log Structures. To ensure proper placement, the Contractor shall provide a portable pump or other method to de-water excessive ground water from the excavation, as necessary.
- E. Rock connections. Holes for eye bolts epoxied into rock shall be drilled into sound material. Hole diameter shall be not more than 1/8 inch greater than that eye bolt. Holes shall be drilled to align with the final orientation of the tensile forces in the chain, so as to minimize slack in chain from potential log movement. Holes shall be cleaned of all dust and debris, prior to installation of eye bolt. Eye bolts shall be thoroughly cleaned with a solution of muriatic acid or with acetone to remove all grease or oil from bonded length. Fill the hole approximately 2/3 with epoxy before inserting the bolt to the bottom of the hole. Allow adhesive to set up overnight before applying tension to the eye bolt.
- F. Log Placement. Log placement locations shown on the Drawings are approximate. Exact locations shall be as approved by the Engineer, or his authorized representative.
- G. Place rootwads at an elevation where the majority of the root mass is below ordinary low water, as approved by the Engineer.
- H. Log Salvage. Trees shown to be removed on the Drawings shall either be cut or be salvaged with their rootwad intact, as shown on the Drawings, or directed by the Engineer.
- I. Slash. Slash material salvaged during clearing and grubbing operations shall be incorporated into the log structure at the direction of the Engineer.

3.2 Field Quality Control

- A. Tolerances. Log and boulder placements shall be as approved by the Engineer.
- B. Logs. All logs shall be inspected for approval by the Engineer, prior to installation.

4. MEASUREMENT AND PAYMENT

4.1 Measurement

- A. Supply Logs With Rootwads. Supply Logs With Rootwads will be measured by each log with rootwad furnished, delivered, and staged at the site for construction of Habitat Features meeting the specifications indicated on the Drawings, as specified, or as directed by the Engineer.
- B. Harvest Logs With Rootwads. Harvest Logs With Rootwads will be measured by each log with rootwad harvested from the project area and staged for construction of Habitat Features meeting the specifications indicated on the Drawings, as specified, or as directed by the Engineer.

- C. Harvest Logs Without Rootwads. Harvest Logs Without Rootwads will be measured by each log without rootwad harvested from the project area and staged for construction of Habitat Features meeting the specifications indicated on the Drawings, as specified, or as directed by the Engineer.
- D. Cut Full Trees. Cut Full Trees will be measured by each full tree cut within the project area and positioned in the creek for construction of Habitat Features meeting the specifications indicated on the Drawings, as specified, or as directed by the Engineer.
- E. Felled Full Trees With Rootwads. Felled Full Trees With Rootwads will be measured by each full tree felled with rootwad within the project area and positioned in the creek for construction of Habitat Features meeting the specifications indicated on the Drawings, as specified, or as directed by the Engineer.
- F. Log/Log Connections. Log/Log Connections will be measured by each log/log connection installed meeting the specifications indicated on the Drawings and as specified.
- G. Log/Boulder Connections. Log/Log Boulder Connections will be measured by each log/boulder connection including ballast boulders and hardware installed meeting the specifications indicated on the Drawings and as specified.
- H. Install Type 1 Habitat Features. Installing Type 1 Habitat Features will be measured by each Type 1 Habitat Features installed at the locations indicated on the Drawings, as specified, or as directed by the Engineer.
- I. Install Type 2 Habitat Features. Installing Type 2 Habitat Features will be measured by each Type 2 Habitat Features installed at the locations indicated on the Drawings, as specified, or as directed by the Engineer.
- J. Install Type 3 Habitat Features. Installing Type 3 Habitat Features will be measured by each Type 3 Habitat Features installed at the locations indicated on the Drawings, as specified, or as directed by the Engineer.
- K. Slash material will not be separately measured for payment.

4.2 Payment

- A. Supply Logs With Rootwads will be paid for at the contract price per unit (each), which price will be payment in full for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in supplying and delivering Logs with Rootwads to the staging area of the site.
- B. Harvest Logs With Rootwads will be paid for at the contract price per unit (each), which price will be payment in full for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in harvesting and delivering Logs with Rootwads to the staging area of the site.
- C. Harvest Logs Without Rootwads will be paid for at the contract price per unit (each), which price will be payment in full for furnishing all labor, materials, tools, equipment,

and incidentals, and for doing all the work involved in harvesting and delivering logs without rootwads to the staging area of the site.

- D. Cut Full Trees will be paid for at the contract price per unit (each), which price will be payment in full for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in cutting full trees and positioning in the channel at the direction of the Engineer.
- E. Felled Full Trees With Rootwad will be paid for at the contract price per unit (each), which price will be payment in full for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in felling full trees with rootwads and positioning in the channel at the direction of the Engineer.
- F. Log/Log Connections will be paid for at the contract price per unit (each), which price will be payment in full for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in installing log/log connections at the direction of the Engineer.
- G. Log/Boulder Connections will be paid for at the contract price per unit (each), which price will be payment in full for furnishing all labor, materials, ballast boulders, tools, equipment, and incidentals, and for doing all the work involved in installing log/boulder connections at the direction of the Engineer.
- H. Install Type 1 Habitat Features will be paid for a the contract price per unit (each), which price will be payment in full for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in installing the Type 1 Habitat Features, complete in place, including moving the logs from the staging are to the installation location, excavation and backfill, as shown on the Drawings, as specified herein, or as directed by the Engineer.
- I. Install Type 2 Habitat Features will be paid for a the contract price per unit (each), which price will be payment in full for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in installing the Type 2 Habitat Features, complete in place, including moving the logs from the staging are to the installation location, excavation and backfill, supplying and installing ballast boulders, as shown on the Drawings, as specified herein, or as directed by the Engineer.
- J. Install Type 3 Habitat Features will be paid for a the contract price per unit (each), which price will be payment in full for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in installing the Type 3 Habitat Features, complete in place, including moving the logs from the staging are to the installation location, excavation and backfill, as shown on the Drawings, as specified herein, or as directed by the Engineer.
- K. No separate payment will be made for slash incorporated into Habitat Features. All costs in connection with this work will be considered incidental to the cost of construction of the Habitat Features.
- L. Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Supply Logs With Rootwads	Each
Harvest Logs With Rootwads	Each
Harvest Logs Without Rootwads	Each
Cut Full Trees	Each
Fell Full Trees With Rootwads	Each
Log/Log Connections	Each
Log/Boulder Connections	Each
Install Type 1 Log Structure	Each
Install Type 2 Log Structure	Each
Install Type 3 Log Structure	Each

END OF SECTION

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SECTION 354237
ROCK SLOPE PROTECTION

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SECTION 354237 ROCK SLOPE PROTECTION

1. GENERAL

1.1 DESCRIPTION

- A. Work within this section shall include furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in placing, Ballast Boulders and Stream Substrate where shown on the Drawings, as specified herein, or as otherwise directed by the Engineer. Stone protection, rock slope protection, and riprap are interchangeable in these Specifications and Drawings.
- B. All loading, transport, temporary stockpiling, processing and mixing of stone materials to achieve designated gradations, washing, on-site hauling, excavation, preparation of sub-grade, placement, embedment, backfill, grading, compaction, finish grading, clean-up, and off-haul and disposal of excess materials needed to install all Rock Slope Protection work, where incorporated in the work, shall be considered as included in the applicable bid item unit price, and no additional compensation will be allowed.
- C. The location, alignment, angles, elevations, grades, slopes, dimensions, etc. of the proposed creek channel improvements, treatments, and structures as described in this section are shown on the Project Plans to provide a basis for construction and bidding purposes. The Engineer is expected to make minor revisions and provide direction in the field to fit any varying field conditions. The Contractor shall include all costs for working under the direction of the Engineer in his/her bid for this work, as no additional compensation will be allow therefore.
- D. The Contractor is hereby notified that the Engineer may direct the Contractor to place additional stone materials (not shown on the Plans) at select locations within the project work treatment areas to fit existing conditions at the time of construction. Any such additional stone materials and placement shall be considered as included in the unit prices paid for the designated stone materials as described elsewhere in these Technical Specifications and no additional compensation shall be allowed for.
- E. Related sections:
 - 1. Section 312316, Stripping and Excavation
 - 2. Section 312319, Dewatering
 - 3. Section 312323, Engineered Fill
 - 4. Section 354200, Log Structures

1.2 SUBMITTALS

- A. Submit to the Engineer, for review, the following:
 - 1. Certified weights of the rock delivered to the site.
 - 2. Certificate(s) and other material testing data as necessary to validate the source of the Rock Materials and their conformance with the Standard Specifications and these Technical Specifications. Include all applicable test results for grading, specific gravity, resistance to degradation, absorption, durability index, and soundness (as described elsewhere in these Technical Specifications).

354237-2

3. A representative 5 cubic yard sample of each of the proposed Rock Materials specified herein shall be provided to the Engineer for approval, ten days prior to delivery of the remainder of material to the project site. The Engineer reserves to the right to reject said materials.
- B. Sampling and Testing Assistance. Any difference of opinion between the Engineer and the Contractor shall be resolved by dumping and checking the gradation of the two random truck loads of rock. Mechanical equipment, a sorting site and labor needed to assist in checking gradation shall be provided by the Contractor at no additional cost to the Client.

1.3 QUALITY ASSURANCE

- A. Tolerances. Place rock to a vertical tolerance of minus 2 to plus 3 inches.
- B. Subgrade Preparation. Prior to placement of rock, Engineer shall verify subgrade preparation, and placement of fabric for rock. Where backing is shown on the Drawings, Engineer shall verify subgrade preparation and backing placement prior to placement of outer rock course.

2. PRODUCTS

2.1 MATERIALS

- A. Salvaged Rock Material. Native rock found on site may be salvaged for reuse, subject to compliance with the material requirements for the intended use, and subject to the approval by the Engineer. The Engineer may require the Contractor to provide testing (e.g. gradation curve, hardness, etc.) to ensure that materials are suitable for reuse. Salvaged creek bed material shall be placed on a hardened surface or other suitable material (i.e. steel plate, pavement, filter fabric) in order to protect the said material from contamination or mixing with other soils, earthen material and debris. The Engineer may, at his sole discretion, waive certain testing requirements to facilitate the Contractor's use of locally salvaged materials.
- B. Rock Material Shape. Cobble and Boulders identified for use in the proposed creek channel improvements, treatments, and structures, and other areas subject to or where it is expected to be exposed to hydraulic conditions (creek water flow) shall be smooth and rounded in shape, as is typical of river run cobblestone, fieldstone, or that from a former stream deposited source. **Angular rock, quarried, split rock, crushed rock or shot rock shall not be used** (except where specified or allowed as shown on the Plans or directed by the Engineer). All creek channel ballast boulders that are located within and immediately adjacent to the proposed creek channel (exposed or expected to be exposed over time to creek water flows) shall be smooth and rounded in shape as noted above and of a natural earth tone color/hue that blends with the surrounding environment (or generally described as "round and brown"). Attention is directed to the submittal requirements as noted in this section.
- C. Rock materials and gradation shall conform to Section 72-2.02 Materials of the State Standard Specifications. Stones shall be sound, durable, hard, resistant to abrasion and free from laminations, weak cleavage planes, and the undesirable effects of weathering. It shall be of such character that it will not readily disintegrate from the action of air, water, or the typical conditions experienced during handling and placing. All aggregate material shall be clean and free from deleterious impurities, including alkali, earth, clay, refuse, and adherent coatings.

- D. Rock size classes not designated below shall be as shown on the Drawings, or as directed by the Engineer. All stone, rock, aggregate materials, and soils imported to the site shall be from a certified “Weed Free” source approved by the SCVWD.
1. Ballast Boulders. Ballast Boulders shall be sub-rounded to sub-angular. Minimum weight of Ballast Boulders shall be 2 tons.
 2. Backfill. Backfill within RSP voids shall consist of either Engineered Fill (Section 312323) “Stream Substrate” material (as specified below), as shown on the Drawings, or as directed by the Engineer.
- E. Stream Substrate. Stream Substrate shall consist of dense, hard, durable non-friable stone free of organic debris and other deleterious substances. The rock shall have a minimum specific gravity of 2.5 and shall be sub-rounded to rounded, as derived from a natural stream or pit-run mining operation. Angular quarried material will not be acceptable. Volcanic cinder material shall not be acceptable. Stream Substrate shall conform to the gradation requirements for Size Class 150, per Table 2, below.

Table 2: Gradation requirements for Stream Substrate, inches or sieve size					
Size Class	100% passing	75-85% passing	45-55% passing	12-20% passing	10% passing
50	5	2	3/4	1/4	No. 10
100	10	4	1 3/4	0.530	No. 10
150	14	6	2 1/2	3/4	No. 10
225	22	9	3 1/2	1.06	No. 10
300	29.5	12	5	1 1/2	No. 10
375	35.5	14	6	1 3/4	No. 10
450	45	16.5	7	2 1/2	No. 10
600	59	23.5	10	3	No. 10
750	74	29.5	12	3 1/2	No. 10
900	88.5	35.5	14	4.24	No. 10
1050	103	45	16.5	5	No. 10

3. EXECUTION

3.1 GENERAL

- A. Salvaged rootwad transplants and live stakes shall be incorporated into the rock work as rock placement proceeds. Contractor shall coordinate with revegetation crew as necessary to

ensure that materials are prepared prior to placing rock and shall provide access to revegetation crews through the duration of the work.

- B. Rounded and smooth gravel, cobbles, and boulders shall not be placed on slopes steeper than 2:1 (horizontal: vertical) unless otherwise directed by the Engineer.
- C. All rock materials shall be placed in such a manner as to smoothly conform with adjacent graded areas. Smaller rock shall be chinked into the margins of larger rock placements, as necessary to conform to earthwork and prevent migration of fines from adjacent graded areas into the rock matrix.

3.2 BALLAST BOULDERS

- A. Ballast Boulders for the Habitat Features shall be used to construct the Log/Boulder Connections and placed to the lines, grades and depths shown on the Drawings, or as directed by the Engineer.

3.3 STREAM SUBSTRATE.

- A. Stream Substrate shall be placed to the lines, grades and depths shown on the Drawings, or as directed by the Engineer. Uniformly distribute large stones to produce the required gradation of rock. Prevent contamination of rock materials by excavation and/or earth materials. Subgrade shall be uniform with no soil clumps or rocks greater than two inches.
- B. Following placement of the Stream Substrate, the finished surface shall be jetted with water until fines (material with a diameter less than 2mm) have been washed into the interstices of the mix to form a uniform plane of embedment, to the satisfaction of the Engineer. Turbid water resulting from jetting operations shall be pumped to a local depression or other sediment treatment facility.

4. MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Ballast Boulders. Ballast Boulders will not be independently measured for payment.
- B. Stream Substrate. Stream Substrate will not be separately measured for payment.
- C. Excavation and backfill for rock slope protection will not be separately measured for payment.
- D. Backing will not be separately measured for payment.

4.2 PAYMENT

- A. Ballast Boulders. No separate payment will be made for Ballast Boulders. Payment for Ballast Boulders will be considered incidental to the unit price paid Log/Boulder Connections in Section 354200, Log Structures.
- B. Stream Substrate. No separate payment will be made for Stream Substrate. Payment for Stream Substrate will be considered incidental to the unit price paid for the related Rock Slope Protection work item.

- C. No separate payment will be made for excavation and backfill incidental to slope protection work. All costs in connection with this work will be considered incidental to the cost of construction of the associated slope protection work.

END OF SECTION

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
CALIFORNIA

**PRACTICE REQUIREMENTS
FOR
ZAYANTE CREEK HABITAT ENHANCEMENT PROJECT**

For: **Business Name:** San Lorenzo Valley Water District & the City of Santa Cruz

Job Location: Zayante Road near Felton, CA

County: Santa Cruz

RCD: Santa Cruz

Farm/Tract No.:

Funding:

Prepared By: Mark Barnett

Date: April 17, 2019

IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO OBTAIN ALL NECESSARY PERMITS AND/OR RIGHTS, AND TO COMPLY WITH ALL ORDINANCES AND LAWS PERTAINING TO THIS INSTALLATION.

Installation shall be in accordance with the following drawings, specifications and special requirements. NO CHANGES ARE TO BE MADE IN THE DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR APPROVAL OF THE NRCS TECHNICIAN.

1. **Drawings, No.:** Waterways: 16-032
2. **Practice Specifications:** Stream Habitat Improvement & Management (395) & Control of Water (909).
3. **Special Requirements:**

Install project according to Waterways Consulting, Inc. Design and Technical Specifications.

4. Maintenance Requirements:

- Periodically check roads for erosion.
- Periodically inspect banks for sloughing.
- Periodically inspect LWD for movement. Consult with engineers and/or RCD if necessary.
- Conditions shall be evaluated and compared to desired conditions on a regular basis to be able to quickly adjust the conservation plan to ensure the desired habitat conditions are met.

PRACTICE APPROVAL:

Job Classification: (Ref: Section 501 NEM).

Practice:	Limiting elements:	Unit	Job Class
Stream Habitat Improvement & Management (395)	Not engineering	n/a	n/a

Design Approved by: **MARK BARNETT**  Digitally signed by MARK BARNETT
Date: 2019.04.26 09:16:49 -07'00' Date: _____

NRCS, CA
July, 2000

LANDOWNER'S/OPERATOR'S ACKNOWLEDGEMENT:

The landowner/operator acknowledges that:

- a. He/she has received a copy of the construction drawings and specification, and that he/she has an understanding of the contents, and the requirements.
- b. He/she has obtained all the necessary permits.
- c. No changes will be made in the installation of the job without prior concurrence of the NRCS technician.
- d. Maintenance of the installed work is necessary for proper performance during the project life.

Accepted by: _____ Date: _____

PRACTICE COMPLETION:

I have made an on site inspection of the site (or I am accepting owner/contractor documentation), and have determined that the job as installed does conform to the drawings and practice specifications.

Construction Certification by:

/s/ _____ Date _____



Memorandum

TO: Board of Directors,
San Lorenzo Valley Water District

FROM: Gina R. Nicholls, District Counsel

DATE: May 2, 2019

RE: Grand Jury Follow-Up
502665-0001

RECOMMENDATION:

Review the attached correspondence from the Santa Cruz County Civil Grand Jury and provide guidance to staff regarding preparation of a draft response.

For purposes of discussion, staff proposes to prepare a draft letter response for presentation to the Board at the May 16 meeting. The letter would set forth the eight Grand Jury recommendations and provide a succinct status update for each, and include copies of the relevant documentation. Materials to be attached to the letter would include, at a minimum, the LADOC Charter, the Board of Directors Policy Manual, relevant Board and LADOC meeting materials such as agendas and minutes, and relevant training materials. The Board would have an opportunity to edit the letter and comment upon the attachments.

BACKGROUND:

On May 31, 2018, the Grand Jury issued its 2017-2018 report entitled “San Lorenzo Valley Water District: Encouraging the Flow of Information to the Public.” (Attachment 2.) The Report set forth three findings and eight recommendations to which the Board was required to respond in writing. On August 22, 2018, the Board submitted its written response to the Grand Jury. The Board’s response committed to implement the Grand Jury’s eight recommendations, and provided projected timeframes for each item.

The Board is in receipt of correspondence from the Grand Jury that request a follow-up report by May 17, 2019. In particular, the Grand Jury is requesting (1) documentation reflecting implementation of each recommendation, or (2) for each recommendation that has not been implemented, “all documentation related to the analyses, discussions, and other steps you took to consider the recommendation.”

Please note that some of the Board’s specific commitments may no longer align with the actual manner in which the recommendations are being implemented. For example, Grand Jury Recommendation R1 states that “LADOC should produce an annual report detailing the status of Assessment District revenues and expenditures.” The Board’s

response stated that District staff would generate a template for the annual report within six months. Although the Grand Jury's recommendation is being implemented, LADOC established (with Board approval) a format for its annual report via the LADOC Charter, such that it no longer seems necessary or relevant to have staff generate a template. For an item like this, the cover letter to the Grand Jury may reflect a succinct status update such as:

Recommendation R1 - LADOC should produce an annual report detailing the status of Assessment District revenues and expenditures:

The LADOC Charter written and adopted by LADOC, and approved by the Board on March 21, 2019, establishes a format for the LADOC annual report and states that the report will be completed "as soon as possible after June 30 of each year, presented using preliminary financial data." Thus, the first annual report is anticipated to be completed in the third quarter of 2019.

The Board can anticipate possible additional follow-up requests from the Grand Jury, especially for recommendations that are in the process of being implemented. Some or all of the materials that the Board provides to the Grand Jury in response to its follow-up request(s) may be posted to the Grand Jury's website.

STRATEGIC PLAN:

Element 6.0 Public Affairs
Element 9.0 Administrative Management

FISCAL IMPACT:

TBD

ATTACHMENTS:

- Attachment 1 - Correspondence from the Grand Jury to SLVWD's Board of Directors, dated April 18, 2019
- Attachment 2 - 2017-2018 Grand Jury Report, "San Lorenzo Valley Water District: Encouraging the Flow of Information to the Public"
- Attachment 3 - SLVWD Board Response to Grand Jury Report

From: Grand Jury [<mailto:grandjury@scgrandjury.org>]
Sent: Thursday, April 18, 2019 7:44 AM
To: Board of Directors
Cc: Bob Fultz
Subject: Grand Jury Report Follow-Up



County of Santa Cruz

Grand Jury
701 Ocean Street, Room 318-I
Santa Cruz, Ca 95060
(831) 454-2099

April 18, 2019

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

Dear Board Members:

In 2018 the Grand Jury issued a report to the San Lorenzo Valley Water District entitled, *"Encouraging the Flow of Information to the Public."* Today the Grand Jury is following up on the actions which you took in response to the recommendations in that report. In your reply, you indicated that you would follow up on the recommendations specified below:

"b. HAS NOT YET BEEN IMPLEMENTED BUT WILL BE IMPLEMENTED IN THE FUTURE, with a timeframe or expected date for implementation"

- Recommendations 1 through 8

For reference, your complete responses are available at: http://www.co.santa-cruz.ca.us/Portals/0/County/GrandJury/GJ2018_final/SLVWDAndThePublic_BoD_Response.pdf

For each recommendation that you committed to implement in the future and then did implement, please provide documentation. For example, if you indicated that you would devise a plan, please provide a copy of the plan.

For each recommendation that you committed to implement but did not implement, please provide all documentation related to the analyses, discussions, and other steps you took to consider the recommendation. Relevant documents might include analyses, proposals, meeting minutes, draft plans, and emails.

All documents submitted to the Grand Jury should be dated. In addition, if your cover letter or cover email presents substantive information, such as describing actions taken or documents created, then you must include the date of every action and every document you reference.

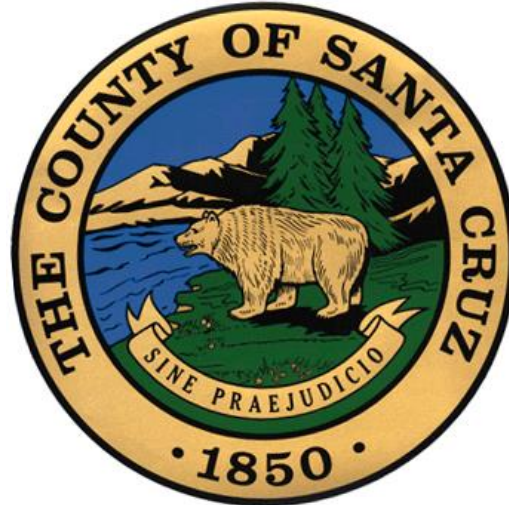
Please email the requested documents to grandjury@scgrandjury.org or send them to Grand Jury, 701 Ocean Street, Room 318i, Santa Cruz, CA 95060, by May 17, 2019.

If you have any questions about this request for documents, please contact us at 831-454-2099 or grandjury@scgrandjury.org.

Sincerely,

A handwritten signature in cursive script, appearing to read "Peggy Flynn".

Peggy Flynn, Foreperson
2018–19 Santa Cruz County Grand Jury



San Lorenzo Valley Water District

Encouraging the Flow of Information to the Public

Summary

Since mid-2016 the San Lorenzo Valley Water District (SLVWD or District) has struggled to address public concerns about a number of controversial issues. The administration of the Lompico surcharge and capital projects, use of glyphosate in the watershed, and a lawsuit involving a former Board member, were among the issues that drew sharp criticism from citizen groups and the press. The criticisms tested the capacity of the District's representatives to maintain productive and civil interactions with the community and, at times, with one another.

Although the Lompico surcharge has now been eliminated, other disputes and communication challenges remain. Issues such as the District's handling of legal matters, management of the Lompico Assessment District and capital projects, and support for the Lompico citizen oversight committee continue to be divisive. In addition, District changes to meeting practices in 2017 have reduced public access to the debate and decision-making process and compromised the community's understanding of the issues.

Better communication on difficult matters, an informed and effective Assessment District oversight committee, and an unwavering commitment to public access, will enable greater transparency and may restore trust and foster better relationships within the SLVWD community.

Role of the Grand Jury

A special note: The Grand Jury conducts all investigations in a confidential manner. Witnesses are admonished not to disclose their contacts with the Grand Jury. In the course of this investigation, however, several interested parties made public statements asserting that an investigation was underway, including speculation about the likely focus and outcome. Thus, it is appropriate to clarify the proper role of the Grand Jury, including its statutory limitations.

The primary function of a civil grand jury is to investigate the function of local government agencies, publish its findings, and recommend ways to improve governmental operations.^[1]

The Grand Jury has no power to remedy individual situations. It cannot vindicate the positions of aggrieved parties nor right past wrongs. The strength of a grand jury investigative report comes from informing the public about the practices of local governmental bodies, with the expectation that an informed public will ensure effective government.

Background

The Santa Cruz County Civil Grand Jury issued a report in 2014 regarding the San Lorenzo Valley Water District's lack of transparency in dealing with the public.^[2] In the wake of that report, the District made a number of positive changes to expand access to the workings of the District, including providing better information in its annual reports and arranging for Community Television of Santa Cruz County (CTV) to record video of all regular Board of Directors meetings. It also made notable organizational and administrative changes. It brought in new senior staff in 2015; it completed its annexation of the Lompico County Water District in 2016; and in the Fall of 2017, it obtained a significant increase in water rates, paving the way for a 10-year capital improvement program to upgrade infrastructure throughout the District.

Since 2016 the District has come under fire again for its lack of transparency. The key issues concern the administration of the conditions of the Lompico merger, as well as the District's handling of several controversial matters. The Grand Jury sought to understand public concerns and to investigate the District's current standards for accountability and transparency.

LCWD-SLVWD Merger

Financial problems, an aging infrastructure, and the threat of state intervention obliged the Lompico County Water District (LCWD) to look to SLVWD for help in 2013. After two years of complex negotiations, SLVWD agreed to annex LCWD if Lompico ratepayers would pass a bond issue to fund infrastructure improvements, and agree to pay a surcharge to cover extra costs related to integrating Lompico operations into SLVWD. The conditions were laid out formally in [Resolution 953-A](#), which all parties refer to as the “merger agreement.” Similarly, while the transaction is more correctly termed an annexation, all parties refer to it as the “merger.”

A bond issue to provide SLVWD with immediate funding for the Lompico infrastructure projects failed by a narrow margin in 2015. The parties then agreed to the formation of an assessment district as a “similar revenue instrument” which would collect the required funds over a 10-year period. In addition, the parties retained the requirement that SLVWD would create a “Lompico oversight committee.”^[3] The assessment district passed in a new ballot measure in March 2016, clearing the way for the merger on June 1, 2016.

By October 2016, Lompico ratepayers were already arguing that changed financial circumstances had reduced the need for the surcharge specified in Resolution 953-A. First, during the year between the failure of the bond initiative vote and the success of the assessment district vote, LCWD passed a significant rate hike, which put it in better financial shape than the merger agreement had contemplated.^[4] Second, SLVWD decided to immediately install a temporary supervisory control and data acquisition (SCADA) system and replace water meters. Those actions substantially reduced the financial burden of integrating and operating the Lompico service area by eliminating the need for workers to monitor water storage tank levels and read the meters in Lompico manually.^[5]

Lompico ratepayers requested a speedy review of the 5-year surcharge, with the goal of bringing the surcharge to an early end. For its part, the District asserted that it needed time to understand the Lompico audited financial statements and future demands. The surcharge review process began ten months later, in April 2017. Over the months of discussions about the surcharge, the public and the District traded accusations that the other was not listening. Civility declined.

While the surcharge involved several hundred thousand dollars over five years, an early controversy arose over a set of mapping charges for three Zayante parcels totalling just \$20,847.^[6] ^[7] ^[8] The charges were not part of the Lompico merger, but the District included them in the original computation of LCWD’s transferred liabilities anyway.^[9] ^[10] ^[11] Including these mapping charges meant that Lompico ratepayers would pay for them indirectly through the monthly surcharge. Later, in the course of forecasting whether the surcharge was still needed, the District removed the mapping charges, but did not publicize the change to concerned citizens. The surcharge issue eventually came to a resolution, but because of communication issues, like the Zayante mapping charges, mistrust and dialog problems remained.

Another condition of the merger, the 10-year Assessment District, provided \$2.75 million to fund a set of capital improvement projects specified in the accompanying Engineer's Report.^[12] It also provided for the collection of an additional \$183,000 for interest payments on anticipated loans taken against future Assessment District collections. The Engineer's Report lists the Lompico capital improvement projects and the estimated cost of each project. It contains few other details about the projects or their implementation.

Since the merger, District representatives and members of the public have raised financial issues not addressed in either the merger agreement or the Engineer's Report. These concerns include questions about what adjustments are possible under the Assessment District (AD) if some projects come in substantially over or under budget, or if the District obtains grants to fund any of the listed projects.^[13]^[14] Other questions have focused on the disposition of the funds collected over the years for loan interest if no loans are obtained.^[15] Still other financial concerns are centered on what would happen with the designated AD funds if a listed project is later determined to be unnecessary.^[16]

The construction timeline has been another area of concern. Public discussions and presentations before the merger had laid out the District's plans to start the Lompico projects shortly after the merger, with funding coming from loans taken out against the AD.^[17]^[18] After the merger however, the District staff investigated loan funding and reported back that it found fewer acceptable loan opportunities than it had anticipated. Instead, the District opted for pay-as-you-go construction funding for most years, with a possible bridge loan in years four through seven.^[19]^[20]

In September 2017 the District was successful in obtaining substantial increases in water rates for the next five years to fund capital improvements. This success allowed the District to update its Capital Improvement Program (CIP) to go forward on several critical, long-delayed pre-merger projects.

The new CIP, introduced in November 2017, specifies all District projects for the next 10 years, including all of the Lompico projects identified in the Assessment District Engineer's Report.^[21] The CIP assigns priority rankings to each project. Under this new plan, Lompico projects are still scheduled to be completed within 10 years, but have a lower priority for completion than a number of projects in other service areas.^[22]

Lompico ratepayers have expressed their concerns that the lower priority ranking of the Assessment District projects might lead to delays and higher construction costs, with a possible consequence that some of the AD projects might not be done.

Lompico Assessment District Oversight Committee (LADOC)

The LCWD-SLVWD merger agreement required the formation of a "bond oversight committee." To address that requirement, the District created an oversight committee, later named the Lompico Assessment District Oversight Committee (LADOC), consisting of five citizens from the Lompico service area. The responsibilities and boundaries of LADOC's role were the subject of early debate.

SLVWD updated its policy manual to add the new oversight committee.^[23] It then solicited applicants.^[24] The policy manual described the committee's role in broad terms:

The Committee shall be responsible to review matters of stewardship, design, construction, replacement, and repair of the District facilities and property directly related to Assessment District 2016-1, the Lompico Service Area.^[25]

LADOC's opening meeting was August 23, 2016. At its second meeting, held on October 6, 2016, the committee decided to pursue several open questions and issues that appeared to fall under its purview. Less than two weeks later, at the October 16, 2016 Board of Directors meeting, the Board debated the reduction of LADOC's duties,^[26] by changing the description of its role to one which it said more closely resembled the wording of the merger agreement.^[27] At the next Board meeting, the SLVWD policy manual was amended to read:

The Committee shall be responsible to review matters of revenue and expenses directly related to Assessment District 2016-1 projects.^{[28] [29]}

District representatives refer to this one sentence description of the responsibilities of LADOC as the LADOC "charter."^[30] The responsibilities of LADOC continue to be the subject of discussion and disagreement.^[31]

Public Meetings and Other Communication Practices

SLVWD is responsible for setting the tone for communications with the public.^[32] The communication environment includes the policies and procedures for Board meetings and other interactions with the public. The communication environment also encompasses the care the District takes to provide an atmosphere conducive to public engagement.

Communication problems came to the forefront in 2017. The District received public criticism not only for its handling of several controversial matters, but also for its handling of the resulting public fallout. During the same period, the District also instituted changes to its meeting practices that had the effect of reducing public participation and understanding. Among other changes, the District switched from holding mostly regular meetings of the Board to holding mostly special meetings of the Board, which were far less likely to be video recorded by Community TV.^{[33] [34]} It also switched from detailed minutes to brief "action minutes."^[35]

Scope of Grand Jury Investigation

From July 2017 through April 2018, the Grand Jury looked into SLVWD interactions with the public in three broad areas:

- Assessment District 2016-1, including:
 - the planning and execution of the capital improvement projects for the Lompico service area pursuant to the LCWD-SLVWD merger agreement
 - the ranking and integration of Assessment District projects into the District-wide CIP plan
- Lompico Assessment District Oversight Committee (LADOC):
 - the responsibilities of the committee established to oversee the Assessment District collections and project expenditures
 - District support of the oversight committee
- the communication environment, including:
 - District practices related to public access, transparency, financial oversight, civility and decorum, and
 - handling of controversial matters

Methodology and Approach

The Grand Jury:

- conducted a series of interviews with individuals affiliated with SLVWD as well as with District ratepayers and others with relevant knowledge
- reviewed internal SLVWD documents and communications among SLVWD Board and staff, as well as SLVWD communications with the public
- reviewed agendas, minutes, meeting notes, and where available, videos and audios of the meetings of the SLVWD Board of Directors and its five committees
- attended meetings of the SLVWD Board and its committees
- reviewed documents and other materials related to the merger of LCWD and SLVWD
- reviewed SLVWD policy and procedure manuals, as well as resolutions and proposals concerning changes to these documents
- reviewed audited financial statements, forecasts, interim financial reports, bill lists, studies (e.g. water rates), and similar financial materials
- reviewed strategic plans, capital improvement project plans, requests for proposals (RFPs), engineering reports, [Gantt charts](#), and similar technical materials
- conducted online research about SLVWD, LCWD, and other local water districts, as well as research about assessment districts and oversight committees
- reviewed applicable California codes and regulations

Investigation

Assessment District 2016-1

In its investigation of the Assessment District (AD), the Grand Jury found notable differences in understanding among District representatives regarding the construction strategy for the AD's projects, including District plans in the event of project delays, cost differences, or possible changes in projects undertaken.

While the District recognizes that AD funds may be used only for the benefit of Lompico, understandings differ among decision makers on what flexibility exists under the AD as written. Varying interpretations of the Assessment District terms have, in several cases, led to conflicting assertions made to the Grand Jury or to the public, about:

- the process for changing or removing projects from the Engineer's Report list^[36]
- the possibility of reducing Assessment District collections in later years^[37]
- ending the Assessment District early^{[38] [39] [40]}
- whether the AD is collecting interest on a future loan^[41]
- whether obtaining a loan against the AD is required^[42]
- using the \$183,000 collected for loan interest for other AD expenses^[43]
- returning unused funds to the ratepayers^{[44] [45]}
- postponing the completion of Assessment District capital projects beyond ten years^[46]

The Grand Jury has found that, nearly two years after the merger, District representatives still communicate differing views of the AD and its projects. The varying interpretations have caused public concern, and warrant serious and sustained discussion.

Capital Improvement Program (CIP)

The District-wide Capital Improvement Program introduced in November 2017 has presented another communication challenge. The District used a priority rating system to rank each capital project, which resulted in a timetable for the execution of each project on the list. The CIP assumes, however, that there are no differences between Lompico and non-Lompico projects except for the funding source; that is, that the projects for which Lompico ratepayers pay an extra assessment have no special status. In contrast, Lompico ratepayers contend that they gave their vote to accept the Assessment District in exchange for the District's promise to complete the specific projects listed in the Engineer's Report in an expeditious manner.^[47]

The November 2017 Capital Improvement Program still meets expectations to do all AD projects and to do them within 10 years of the merger, but it also incorporates delays of five months to three years for several AD projects. (See Table A below.) The substantial increase in water rates, passed in September 2017, has allowed several pre-merger capital projects to go forward immediately. Now those projects and the AD projects must vie for the time and attention of the small professional staff who will manage the District strategy for permitting, planning, construction, and financing of multiple projects.

The following table, Table A, shows the original and changed estimated start dates for all of the Assessment District projects listed in the Engineer’s Report.

Table A: Scheduled Start Dates for AD Projects in 2017 District Gantt Charts

Assessment District Projects ^[48]	Cost (\$)	Project Timeline (Gantt) 2/01/17 ^[49]	Project Timeline (Gantt-CIP) 11/16/17 ^[50]	Approximate Months early / (delayed)
Service Line and Meter Replacements	862,500			
Meters & Private PRVs		7/1/16	7/1/16	0
Laterals		4/3/17	4/3/17	0
Tank Replacement	682,500			
Lewis		1/18/17	11/13/17	(10)
Madrone		7/20/20	12/7/20	(5)
Kaski		7/10/23	6/19/23	1
PRV Replacement	358,000	4/3/17	1/1/18	(8)
Refurbish Mill Creek WTP	105,000	7/19/21	7/15/24	(36)
Distribution System Interconnection	301,000	7/17/17	8/6/18	(13)
SCADA System	441,000*	7/22/19	7/22/19	0

*Includes \$19,540 for a temporary SCADA, not addressed in the Engineer's Report, installed in 2016 ^[51]

Lompico Assessment District Oversight Committee (LADOC)

The parties to the merger of LCWD and SLVWD agreed to keep the original wording of the merger agreement, Resolution 953-A, to avoid renegotiations that would have delayed the merger.^[52] ^[53] Instead, the stakeholders relied on one another to honor the intent of the merger agreement, even if the words did not fully match the actual elements of the merger.^[54] ^[55]

A condition of the merger, Section 7(B) of Resolution 953-A, required the formation of a “bond oversight committee.”^[56] A bond oversight committee has clearly recognized duties and responsibilities. The California Taskforce on Bond Accountability identifies guidelines for local agencies to follow^[57] regarding the establishment and maintenance of “internal control systems to account for and report on the expenditure of funds.”^[58]

By requiring the formation of a bond oversight committee, the merger agreement, in effect, required a formal control system to ensure fiduciary care of the funds collected. The parties agreed that the Assessment District was a “similar revenue instrument” to a bond. The Grand Jury found no evidence to suggest that the parties agreed to a lower standard of oversight and fiduciary care for the Assessment District than the accepted standards for oversight of the proceeds of a bond issue.

Guidelines, charters, and bylaws from a variety of organizations addressing both bonds^{[59] [60] [61]} and assessment districts^{[62] [63]} show oversight responsibilities and practices that reflect the same concerns for the fiduciary care of funds. The state Taskforce on Bond Accountability describes several responsibilities for bond oversight, including creating a transparent control environment; assessing, monitoring and mitigating risk; and maintaining internal controls to ensure that the agency is “properly receiving, managing, and disbursing bond funds.”^[64]

Creating the control environment is key to all of the oversight responsibilities. The control environment prescribes seating qualified people, providing them with appropriate policies and procedures to direct their efforts, and granting them the authority they need to perform the oversight role.

Experts on oversight committees advise that members of these committees receive training, along with others in their agency who will play a role in the administration of the funds.^{[65] [66]} LADOC members have not received formal training in assessment districts, or in other key areas, such as special district governance and meeting management.^[67] For the first 14 months of its existence, the committee also did not receive support from senior financial staff, who might have provided valuable guidance in the absence of relevant formal training.^[68]

The District policy manual describes LADOC’s responsibilities in one sentence, without supporting details. In contrast, expert groups provide detailed guidelines for oversight efforts.^[69]

Oversight Committee Duties and Support ^{[70] [71] [72] [73] [74]}

At minimum, adequate guidance and support for LADOC would include:

- Comprehensive orientation prior to beginning work
- Members handbook of key documents, including items such as a LADOC charter (description of duties), the Engineer’s Report, relevant resolutions,^{[75] [76] [77] [78]} relevant District policies and procedures, project descriptions, budgets and schedules, financial reports, minutes of prior meetings, guides to Brown Act and parliamentary procedures
- Regular meeting schedule, at least quarterly

Expected duties of the oversight committee would include:

- Tracking expenditures of assessment proceeds back to the capital improvement plan
- Actively reviewing and reporting on the proper expenditure of assessment money for the Lompico construction and replacement projects listed in the Engineer’s Report
- Maintaining a committee webpage with (1) detailed information about the progress of each project, (2) committee minutes, and (3) materials it has received
- Preparing and publishing an annual report for ratepayers

Expected duties of the District would include:

- Providing timely, comprehensive data to the oversight committee, including financial reports that display original budget, current budget, actual expenditures, budget balance, and approved commitments to projects to date across all fiscal years
- Providing technical and administrative assistance

As listed above, one of the expected duties of an oversight committee is the production of an annual report. LADOC did not produce such a report, nor did the Board request that LADOC produce one.

In April 2017 the Board received a staff memo indicating that it would be “appropriate for the full Board to periodically review progress” of LADOC and to “provide guidance regarding committee functions, goals and objectives.”^[79] Other communications indicated that senior staff declined to attend LADOC meetings beginning in April 2017.^[80] LADOC meeting notes and internal emails from April 2017, and subsequent Grand Jury interviews, confirm that LADOC sought more support from the Board and staff, but the District did not have the resolve to provide effective support.^[81] ^[82] ^[83] The Grand Jury also determined that opinions differ within the District concerning the utility of LADOC and its appropriate responsibilities as a standing committee.^[84]

In October 2017, the Board considered a staff memo proposing to restrict LADOC meetings and responsibilities further -- that is, to a once-a-year, after-the-fact review of AD project expenditures.^[85] While the Board did not accept the proposal, the ensuing debate made clear that the District has not granted LADOC the authority to perform the oversight role that Resolution 953-A required. The debate also illustrated the District’s lack of recognition that it has an obligation to support a fully functioning oversight committee.^[86]

In sum, the Grand Jury found that the lack of consensus about the role of LADOC, combined with insufficient training and lack of effective support, prevented LADOC from fulfilling its responsibilities in its first year of existence.

Public Meetings and Other Communications

Meeting practices are key communication elements. Policies and procedures that promote public understanding and participation in Board and committee meetings create a trust environment. Policies and procedures that tend to restrict public understanding and participation risk public complaints and a breakdown in civility and decorum in times of controversy.

The Grand Jury looked at meeting and communication practices of nearby water districts and compared them to SLVWD’s practices in 2016 and 2017. It found that in 2016, the District excelled in practices such as publishing comprehensive minutes and arranging for Community TV filming of regular Board meetings. Unfortunately, in 2017, both the written and electronic recording of District meetings took a step backwards.

Recording Board Proceedings – Videos and Published Minutes

In 2016 the District held 24 Board of Directors meetings – 21 regular Board meetings and four special Board meetings with limited agendas. Of those 24 meetings, Community Television of Santa Cruz County (CTV) recorded 19. In contrast, in 2017 the District held 30 Board of Directors meetings – 10 regular Board meetings and 20 special Board meetings. CTV recorded just 13 of the 30 Board meetings, mostly the regular Board meetings.

As Table B shows, CTV recorded only three of the 20 special Board meetings in 2017. Two of the unrecorded special meetings had multi-item agendas indistinguishable from regular meeting agendas. The relative lack of CTV coverage of special meetings reduced access to ratepayers who could not attend those meetings.

Table B: Regular and Special Board of Directors Meetings, 2016 and 2017

	2016	2017
Regular Board of Directors Meetings	21	10
-- Minutes Posted on SLVWD website	21	10
-- CTV Videos Posted on SLVWD website	18	9
-- CTV Videos Available at CTV	18	10
Special Board of Directors Meetings	4	20
-- Limited Agenda	4	15
-- Full (multi-item) Agenda	0	5
-- Minutes Posted on SLVWD website	3	19
-- CTV Videos Posted on SLVWD website	0	2
-- CTV Videos Available at CTV	1	3
Total Board of Directors Meetings	24	30
CTV Videos Available at CTV	19	13
% of Meeting Videos	79%	43%

In 2016 the District produced detailed minutes of the Board of Directors meetings. With the January 17, 2017 Board of Directors meeting, the District switched to “action minutes,” which do not provide any insight into the decisions because they omit the Board discussions and details of public input.

The 2017 elimination of detailed minutes, combined with the relative lack of CTV coverage of the numerous special meetings, reduced publicly available sources of information about District issues for all ratepayers not in attendance at the meetings.

Recording Board Proceedings -- Audio recordings

In late 2017, the District began recording audios of all Board and committee meetings. While the District currently has no written retention policy for audios, it informed the Grand Jury that it destroys all audios after 30 days pursuant to Government Code section 54953.5, subdivision (b). That section provides for a minimum retention period of 30 days; it does not *require* destruction of the media after 30 days or at any particular time in the future.^[87]

The Board of Directors meeting of November 9, 2017 illustrates the communication problems that the stated destruction practice creates.^[88] CTV did not record that meeting. The meeting included a discussion of proposed changes to rates and charges for the Bear Creek Wastewater Enterprise. In the absence of either a recording of the proceedings or detailed meeting minutes, ratepayers not in attendance are unable to access the important discussions that took place.

In the same November 9, 2017 meeting, an exchange among Board members arose over a procedural point addressed in the policy manual. The issue was whether an individual Board member could direct the District Manager to perform an administrative task, or if the task request required Board authorization. Two Board members asserted that Board authorization was not required; the remaining Board members did not challenge the assertion.^[89] The Grand Jury could verify this exchange on its copy of the audio. In the January 18, 2018 Board of Directors meeting, the procedural issue surfaced again. In this instance however, two other directors made the opposite assertion about policy; that is, that an individual Board member could *not* task the District Manager without Board authorization.^[90] Without a publicly-available recording of the November 9, 2017 meeting, interested parties cannot verify, or challenge with confidence, possible contradictory assertions or misstatements.

The District's stated destruction practice for audios implies that community members not only need to make a Public Records Request (PRR) for a recording, but need to make it within 30 days. Having to make a PRR creates an impediment to accessing the discussions and information from the meetings.

In February 2018, the Grand Jury observed that the District began a new project to embed the District's official audios in the pdf files of the action minutes which are posted on the SLVWD website. Unfortunately, the embedded recordings do not function consistently across browsers and devices. The current system leaves out the many users of unsupported devices. If the new system can be made more universally accessible, then it could make a positive contribution to public engagement.

Communication Environment

The approved policy manual for 2017 urges District representatives to "Establish and maintain an environment that encourages the open exchange of ideas and information between Board members, staff and the public that is positive, honest, concise, understandable, responsive and cost-efficient."^[91]

The November 2017 draft revised policy manual proposes similar language to encourage District representatives "(i) to use the Golden Rule (treating others as one would wish to be treated) as a guide in interactions with the media, the SLV community, District management and employees and other Board members and (ii) to speak candidly and forthrightly about the issues in front of the Board of Directors."^[92]

Both the current and proposed policy manuals clearly encourage civility. In routine meeting settings, District representatives do interact civilly with one another and with the public. In the past two years, however, the District has had to address a number of

difficult and controversial matters. Criticism from the public, at times harsh and personal, and disagreements among the District representatives, created lapses in decorum and civility in a number of public meetings as well as on social media.^{[93] [94] [95] [96]} These lapses have led, in turn, to public frustration, and the unwelcome prospect of continuing friction on issues of long-term concern to all parties.

Contentious matters that dominated 2017 and will be of ongoing concern include the following items:

Lompico Merger. After the June 2016 merger, the Lompico surcharge became a divisive issue for more than a year. Although the surcharge has ended, the administration of the Assessment District will be an ongoing activity for eight more years. The issues surrounding the administration and oversight of the Assessment District, especially the decisions necessary for successful completion of the required capital projects, are complex. While the District has the responsibility to create and execute the AD project strategy, transparency dictates regular and substantive communications about that strategy, including changes in timing, funding priorities, and regulatory hurdles.

Legal Fees. In each of the previous three fiscal years, legal fees were under \$100,000. In contrast, in the first four months of the 2017-2018 fiscal year, the District had already spent \$108,000 of its \$140,000 budget on legal fees, much of it related to a long-running set of legal actions involving a former Board member. In anticipation of additional litigation, the District raised its budget for legal fees by \$204,500, to a total of \$344,500.^{[97] [98]} Legal fees now represent a material portion of the District's annual budget for administrative professional services. The confidential nature of legal work means that the District has a continuing challenge to explain and justify expensive and controversial legal strategies to an inquiring public.^{[99] [100]}

Relationship with Citizen Groups and the Press. The local newspaper, along with other media outlets and citizen groups on social media, were critical of the comportment of District representatives at public meetings throughout 2017. The surcharge, the use of [glyphosate](#) in the watershed, and District spending on legal matters were especially controversial issues. While some critics may leave the scene, the District would be right to anticipate that the press, citizen groups, and new critics will continue to focus on difficult matters that have become contentious.^{[101] [102]}

Disagreements among District Representatives. The work of the District cannot proceed effectively without robust discussion. When District representatives fail to maintain civil interactions, however, the public may fear that its interests are at risk. Ratepayers expect discussions at public meetings to focus solely on outcomes, not on personal differences.^{[103] [104]}

Personal Expressions. District representatives have the right to put forth their personal views about SLVWD matters in public forums. The policy manual requires only that such expressions be clearly designated as an individual's opinions and not declarations of the District's official views. Regardless of whether that policy is followed, criticism of colleagues in social media may have a negative long-term impact on public perception of, and respect for, all representatives of the District.^[105]

Findings

- F1.** The lack of effective communication between the District and the community regarding the administration of the Assessment District has caused public concern regarding the timing and implementation of Assessment District projects.
- F2.** The District has not provided adequate authority, guidance, training, or support to the Lompico Assessment District Oversight Committee (LADOC) to ensure that the committee can fulfill its assessment district oversight responsibilities, thus reducing transparency and accountability to the public.
- F3.** Lack of effective District communication practices has reduced public access to the decision-making process, and contributed to acrimony and on-going relationship challenges with the community, causing stress on elected officials and staff, as well as frustration among ratepayers.

Recommendations

- R1.** LADOC should produce an annual report detailing the status of Assessment District revenues and expenditures.(F1, F2)
- R2.** The District should schedule annual public study sessions or workshops to review the LADOC annual report and discuss the administration of the Assessment District (AD), in order to provide in depth information to the public about the timing, funding, and execution of AD projects. (F1, F3)
- R3.** The Board and LADOC should work in concert to create a charter for LADOC that describes in detail the committee's responsibilities and its authority to fulfill its oversight role. (F1, F2)
- R4.** The Board should ensure that LADOC receives adequate professional, technical, and administrative support from the District, as well as the authority to carry out its oversight responsibilities. (F2)
- R5.** The District should provide formal training for all LADOC citizen committee members in governance, meeting management, and the Brown Act. (F2)
- R6.** The District should provide formal training about assessment districts to LADOC members and all others involved in the administration of the Assessment District. (F2)
- R7.** The District should record all Board and committee meetings, and post the recordings online for public access. (F3)
- R8.** The District should provide formal training to all Board and committee members and senior staff on how to communicate with the public on contentious issues. (F1, F3)

Required Response

<i>Respondent</i>	<i>Findings</i>	<i>Recommendations</i>	<i>Respond Within/ Respond By</i>
San Lorenzo Valley Water District Board of Directors	F1 – F3	R1 – R8	90 Days August 29, 2018

Abbreviations and Definitions

- **CIP:** Capital Improvement Program (also called Capital Improvement Plan)
- **CTV:** Community Television of Santa Cruz County
- **Gantt Chart:** “A Gantt chart is a visual view of tasks scheduled over time.”^[105]
- **Glyphosate:** “Glyphosate is an herbicide. It is applied to the leaves of plants to kill both broadleaf plants and grasses.”^[106]
- **LADOC:** Lompico Assessment District Oversight Committee
- **LAFCO:** Local Agency Formation Commission for Santa Cruz County
- **LCWD:** Lompico County Water District
- **Resolution 953-A:** LAFCO resolution (also called the “merger agreement”) approving SLVWD’s annexation of LCWD (also called the “merger”)
- **SCADA:** Supervisory control and data acquisition system
- **SLVWD:** San Lorenzo Valley Water District, also referred to in this report as “the District”

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Websites

Local Agency Formation Commission, Santa Cruz County:
<http://www.santacruzlafco.org/>

San Lorenzo Valley Water District: <http://www.slvwd.com/>



Santa Cruz County
Grand Jury

Grand Jury <grandjury@scgrandjury.org>

Completed Grand Jury Response - SLVWD

1 message

Holly Hossack <hhossack@slvwd.com>

Wed, Aug 22, 2018 at 9:48 AM

To: "grandjury@scgrandjury.org" <grandjury@scgrandjury.org>

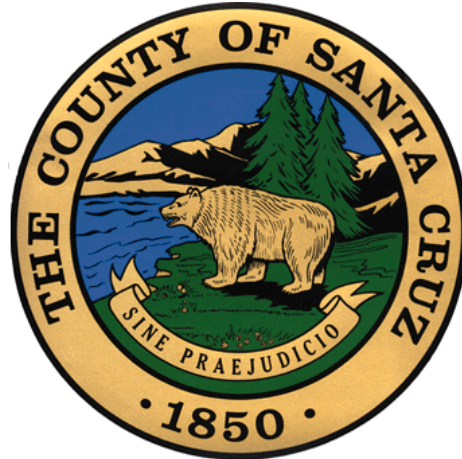
Please find attached the completed Grand Jury Response from San Lorenzo Valley Water District. A hard copy will be mailed to the Honorable Judge John Gallagher.

Thank you,

Holly Hossack | Administrative Assistant/District Secretary
San Lorenzo Valley Water District | 13060 Highway 9 | Boulder Creek | CA | 95006
Office (831) 338-2153 | Direct (831) 430-4636 | Fax (831) 338-7986
hhossack@slvwd.com



 **SLVWD BoD-Approved Response to 2017-18 Grand Jury Report.pdf**
95K



**The 2017–2018 Santa Cruz County Civil Grand Jury
Requires that the
San Lorenzo Valley Water District Board of Directors
Respond to the Findings and Recommendations
Specified in the Report Titled
San Lorenzo Valley Water District
Encouraging the Flow of Information to the Public
by August 29, 2018**

When the response is complete, please

1. Email the completed Response Packet as a file attachment to grandjury@scgrandjury.org, and
2. Print and send a hard copy of the completed Response Packet to

The Honorable Judge John Gallagher
Santa Cruz Courthouse
701 Ocean St.
Santa Cruz, CA 95060

Instructions for Respondents

California law PC §933.05 (included [below](#)) requires the respondent to a Grand Jury report to comment on each finding and recommendation within a report. Explanations for disagreements and timeframes for further implementation or analysis must be provided. Please follow the format below when preparing the responses.

Response Format

1. For the Findings included in this Response Packet, select one of the following responses and provide the required additional information:
 - a. **AGREE** with the Finding, or
 - b. **PARTIALLY DISAGREE** with the Finding and specify the portion of the Finding that is disputed and include an explanation of the reasons therefor, or
 - c. **DISAGREE** with the Finding and provide an explanation of the reasons therefor.
2. For the Recommendations included in this Response Packet, select one of the following actions and provide the required additional information:
 - a. **HAS BEEN IMPLEMENTED**, with a summary regarding the implemented action, or
 - b. **HAS NOT YET BEEN IMPLEMENTED BUT WILL BE IMPLEMENTED IN THE FUTURE**, with a timeframe or expected date for implementation, or
 - c. **REQUIRES FURTHER ANALYSIS**, with an explanation and the scope and parameters of an analysis or study, and a timeframe for that analysis or study; this timeframe shall not exceed six months from the date of publication of the grand jury report, or
 - d. **WILL NOT BE IMPLEMENTED** because it is not warranted or is not reasonable, with an explanation therefor.

Validation

Date of governing body's response approval: **August 16, 2018**

If you have questions about this response form, please contact the Grand Jury by calling 831-454-2099 or by sending an email to grandjury@scgrandjury.org.

Findings

F1. The lack of effective communication between the District and the community regarding the administration of the Assessment District has caused public concern regarding the timing and implementation of Assessment District projects.

AGREE

PARTIALLY DISAGREE – explain the disputed portion

DISAGREE – explain why

Response explanation (required for a response other than **Agree**):

The San Lorenzo Valley Water District (District) and its Board of Directors (Board) appreciate the work of the Grand Jury and all of the diligence and time invested over the past term. We agree with the finding and believe “lack of effective communication” actually understates the nature of the broader Assessment District No. 16 (AD-16) concerns, which largely center on confusion about the mechanics of the assessment district and unaligned expectations. Much of the confusion relates to the unexpected direction the Lompico County Water District (Lompico) annexation took after the failure of the original attempt to approve a bond to finance it. We agree it is time to clear up the confusion and move forward with a clearer and broader consensus on the workings of AD-16 for the ratepayers in the assessment area.

Our plans to provide effective communications regarding AD-16 going forward are in our responses to R1 and R2. We have added a plan of action addressing the larger issue of AD-16 mechanics in our response to R6.

- F2.** The District has not provided adequate authority, guidance, training, or support to the Lompico Assessment District Oversight Committee (LADOC) to ensure that the committee can fulfill its assessment district oversight responsibilities, thus reducing transparency and accountability to the public.

AGREE

PARTIALLY DISAGREE – explain the disputed portion

DISAGREE – explain why

Response explanation (required for a response other than **Agree**):

We appreciate the work of the Grand Jury in highlighting the lack of a detailed Charter for LADOC and the need to provide additional guidance, training, and support to LADOC committee members. In light of the bond/assessment distinction and commonly held misconceptions about assessment districts generally and the specific function of this oversight committee, a one sentence charter for LADOC is clearly insufficient for communicating the responsibilities of LADOC.

A challenge faced by the District in providing more structure for LADOC is the limited availability of precedent for the specific function of this oversight committee. Most of the precedent that is available is for bond oversight, especially school bond oversight, which is governed by detailed requirements set forth in Proposition 39 and the Education Code. Though LADOC originally was conceived of as a bond oversight committee, it is not exactly the same as a bond oversight committee, although many of the same best practices can be adapted or applied.

Our plan and commitment to create a more detailed Charter for LADOC is in our response to R3.

F3. Lack of effective District communication practices has reduced public access to the decision-making process, and contributed to acrimony and on-going relationship challenges with the community, causing stress on elected officials and staff, as well as frustration among ratepayers.

AGREE

PARTIALLY DISAGREE – explain the disputed portion

DISAGREE – explain why

Response explanation (required for a response other than **Agree**):

We appreciate the work of the Grand Jury and agree with this finding because it highlights an unusual level of acrimony and strained relationships that exist within the District. These issues present significant challenges for all members of the community, including ratepayers, elected officials and staff.

We recognize that a high level of public engagement is desirable in light of public interest and concern regarding the District's activities. Over the past couple of years the District has experimented with a number of ways to try to improve community relations and engagement. These include contracting with Community TV to record regular Board meetings and making these recordings available online. Also, the District switched to action minutes, consistent with best practices, in response to numerous complaints from members of the public resulting from the District's former reliance on detailed meeting minutes.

Not all of the District's efforts to improve communications have been successful. In fact, most efforts have met with mixed reactions. A key challenge is that procedural changes to provide more equal and fair access to all members of the community may be perceived as limiting the participation of others. For example, limiting the time for each speaker at public meetings to three minutes per oral communication period helps to ensure that everyone who wishes to speak gets an equal opportunity to do so. Also, time limitations help prevent meetings from running so long into the night that meaningful attendance becomes prohibitive for some. On the other hand, time limits mean that people who wish to provide more detailed comments or to engage in back and forth dialogue may not have the opportunity to fully engage. There are reasonably held views on both sides of this issue, just as with many other communication challenges. Because of these kinds of challenges, at times the District has vacillated in terms of how best to facilitate communications.

There is no one-size-fits-all solution for these kinds of tensions. The District remains open to new ideas and is willing to experiment and try new things. The ultimate goal shared by all members of the Board is to maximize public engagement in a manner that is workable, legal and fair.

Our plan and commitment to address these issues in a manner that is responsive to the Grand Jury report is in our response to R7 and R8.

Recommendations

R1. LADOC should produce an annual report detailing the status of Assessment District revenues and expenditures.(F1, F2)

HAS BEEN IMPLEMENTED – summarize what has been done

HAS NOT BEEN IMPLEMENTED BUT WILL BE IMPLEMENTED IN THE FUTURE – summarize what will be done and the timeframe

REQUIRES FURTHER ANALYSIS – explain scope and timeframe
(not to exceed six months)

WILL NOT BE IMPLEMENTED – explain why

Response explanation, summary, and timeframe:

We are committed to developing a process and format for a LADOC annual report.

The revised Charter and/or new Bylaws for LADOC (see response to R3) will describe the timeframe and process for producing an annual report. The contents of the annual report should be defined jointly by the District and LADOC.

As soon as possible within the next 6 months, staff will help jump start the process of implementing this recommendation by generating a template to help facilitate the first annual report, giving consideration to the California League of Bond Oversight Committees (CaLBOC) best practices for preparation of an annual report regarding school bond oversight. Staff may consider other relevant guidance and samples available from other sources. It will be up to LADOC to develop and write the substantive content of the report. Based on a cursory review of samples, it looks like oversight committee annual reports often have less than 10 substantive pages, such that writing the report need not be an onerous task for LADOC members.

R2. The District should schedule annual public study sessions or workshops to review the LADOC annual report and discuss the administration of the Assessment District (AD), in order to provide in depth information to the public about the timing, funding, and execution of AD projects. (F1, F3)

HAS BEEN IMPLEMENTED – summarize what has been done

HAS NOT BEEN IMPLEMENTED BUT WILL BE IMPLEMENTED IN THE FUTURE – summarize what will be done and the timeframe

REQUIRES FURTHER ANALYSIS – explain scope and timeframe (not to exceed six months)

WILL NOT BE IMPLEMENTED – explain why

Response explanation, summary, and timeframe:

We are committed to scheduling annual workshop-style meetings to review the LADOC annual reports, which will include discussion of current information about the timing, funding, and execution of AD-16 projects.

Upon completion by LADOC of its annual report, the District will make the report available on the LADOC page of the District's website. Also, the District will schedule a joint meeting of the Board and LADOC for the purpose of having LADOC present its report. The format will include a public-workshop style discussion with Q&A.

We will go further than the Grand Jury's recommendation by creating high-level project summaries for each discrete AD-16 project. Our goal is to post these summaries on the LADOC web page within the next year. The format and initial content should be reviewed and approved by the Board. The summaries will serve an informational function only. They will not create any new or additional commitments on the part of the District. The summaries will be living documents to be updated periodically as circumstances change.

We will also look into creating a role for designated Board and/or staff members to serve as a liaison with LADOC and its chairperson. The purpose of this new role would be to help improve communications and the flow of information between LADOC and the rest of the District.

We believe it is important to note that comments and questions about the implementation of AD-16 projects, including priority, timeline, bidding and design considerations etc., are within the purview of the Engineering Committee and ultimately the Board. We encourage members of the public to bring these types of issues to the Engineering Committee rather than LADOC.

R3. The Board and LADOC should work in concert to create a charter for LADOC that describes in detail the committee’s responsibilities and its authority to fulfill its oversight role. (F1, F2)

HAS BEEN IMPLEMENTED – summarize what has been done

HAS NOT BEEN IMPLEMENTED BUT WILL BE IMPLEMENTED IN THE FUTURE – summarize what will be done and the timeframe

REQUIRES FURTHER ANALYSIS – explain scope and timeframe (not to exceed six months)

WILL NOT BE IMPLEMENTED – explain why

Response explanation, summary, and timeframe:

We are committed to creating a revised Charter that describes in more detail LADOC’s responsibilities and its authority to fulfill its oversight role.

As soon as possible within the next 6 months we will revise the LADOC Charter to replace its current Charter. A draft will be presented to LADOC for its review and comment and to the Board for approval. The revised Charter will be more specific than the current Charter, keeping in mind that a Charter is intended to be a broad statement of purpose and authority, and the core purpose of a citizens’ oversight committee to advise the public as to whether the assessment district funds are being managed in accordance with law.

We will go further than the Grand Jury’s recommendation by including information in the Charter about LADOC membership, meetings, procedures and functions if such information is not provided by other documents such as the Board Manual or new LADOC Bylaws.

R4. The Board should ensure that LADOC receives adequate professional, technical, and administrative support from the District, as well as the authority to carry out its oversight responsibilities. (F2)

HAS BEEN IMPLEMENTED – summarize what has been done

HAS NOT BEEN IMPLEMENTED BUT WILL BE IMPLEMENTED IN THE FUTURE – summarize what will be done and the timeframe

REQUIRES FURTHER ANALYSIS – explain scope and timeframe (not to exceed six months)

WILL NOT BE IMPLEMENTED – explain why

Response explanation, summary, and timeframe:

Our plan and commitment is described under R3 to produce a revised Charter as soon as possible within the next 6 months that defines the authority of LADOC to carry out its oversight responsibilities.

We are committed to making adequate professional, technical and administrative support available to LADOC from the District. The bond/assessment distinction presents a challenge because many of the professional resources that exist for bond oversight do not translate perfectly to non-bond assessment oversight. We believe the District has professional expertise up to the task of locating appropriate resources, adapting existing resources, or creating new materials as necessary.

R5. The District should provide formal training for all LADOC citizen committee members in governance, meeting management, and the Brown Act. (F2)

HAS BEEN IMPLEMENTED – summarize what has been done

HAS NOT BEEN IMPLEMENTED BUT WILL BE IMPLEMENTED IN THE FUTURE – summarize what will be done and the timeframe

REQUIRES FURTHER ANALYSIS – explain scope and timeframe (not to exceed six months)

WILL NOT BE IMPLEMENTED – explain why

Response explanation, summary, and timeframe:

We are committed to improving the training regimen for Board members and creating one for public members of committees including LADOC.

As soon as possible within the next 6 months, we will make governance, meeting management, and Brown Act training available to all members of the Board and the District's public committee members. Within a year, we will evaluate and select a means of making such training available on a recurring or ongoing basis. For example, staff may consider creating tailored training materials for in-house use and reproduction versus hiring consultants and/or procuring online subscriptions, etc.

We will go further than the Grand Jury's recommendation by including government ethics training for public members of committees as part of the training regimen. Ethics training already is a required and made available for Board members.

R6. The District should provide formal training about assessment districts to LADOC members and all others involved in the administration of the Assessment District.
(F2)

HAS BEEN IMPLEMENTED – summarize what has been done

HAS NOT BEEN IMPLEMENTED BUT WILL BE IMPLEMENTED IN THE FUTURE – summarize what will be done and the timeframe

REQUIRES FURTHER ANALYSIS – explain scope and timeframe
(not to exceed six months)

WILL NOT BE IMPLEMENTED – explain why

Response explanation, summary, and timeframe:

Our plan and commitment is described under R5 to make training on key topics available to all Board and public committee members, including LADOC members. For Board and LADOC members, we will have additional training about assessment districts.

The bond/assessment distinction presents a challenge because the formal training that exists for bond oversight does not translate perfectly for non-bond assessment district oversight. We believe the District has professional expertise up to the task of locating or adapting existing training, or creating new materials as necessary.

We will go further than the Grand Jury's recommendation by coming up with a mechanism for posing questions about, e.g., the implications of changes to AD-16 projects, and addressing them.

R7. The District should record all Board and committee meetings, and post the recordings online for public access. (F3)

HAS BEEN IMPLEMENTED – summarize what has been done

HAS NOT BEEN IMPLEMENTED BUT WILL BE IMPLEMENTED IN THE FUTURE – summarize what will be done and the timeframe

REQUIRES FURTHER ANALYSIS – explain scope and timeframe (not to exceed six months)

WILL NOT BE IMPLEMENTED – explain why

Response explanation, summary, and timeframe:

We recognize that interested members of the public cannot always attend Board and committee meetings. Accordingly, we are committed to going above and beyond open meeting requirements by recording all Board and committee meetings and posting the recordings online to maximize public access.

As indicated in the Grand Jury report, the District has been experimenting with a technology solution that embeds links to audio recordings of public meetings into the action minutes. This is an elegant solution that couples the clarity of action minutes with detailed information about what was said during the proceedings. Notwithstanding some technical difficulties encountered by the District in rolling out this new technology, it is very close to being implemented. We believe that this can be done within 6 months to a year.

- R8.** The District should provide formal training to all Board and committee members and senior staff on how to communicate with the public on contentious issues.
(F1, F3)

HAS BEEN IMPLEMENTED – summarize what has been done

HAS NOT BEEN IMPLEMENTED BUT WILL BE IMPLEMENTED IN THE FUTURE – summarize what will be done and the timeframe

REQUIRES FURTHER ANALYSIS – explain scope and timeframe
(not to exceed six months)

WILL NOT BE IMPLEMENTED – explain why

Response explanation, summary, and timeframe:

Our plan and commitment is described under R5 and R6 to make training on key topics available to all Board and public committee members. For all Board and committee members and senior staff, we will add training on how to communicate with the public on contentious issues.

A challenge is that the District has previously expressed interest in this type of training but did not locate appropriate resources. With additional effort, we believe that something can be located or adapted for this purpose. Ideally the training would be provided by someone familiar with the local community.

MEMO

TO: Board of Directors
FROM: District Manager
SUBJECT Board and Public Member Committee Assignments
DATE May 2, 2019

Recommendation:

It is recommended that the Board of Directors review this memo and direct staff to move forward with procedures for committee appointments to the LADOC and Budget & Finance committees and possibly appoint Board Members to fill vacancies on open committees and Santa Margarita Groundwater Agency.

Background:

The San Lorenzo Valley Water District Board of Directors Policy Manual provides for five standing committees and Santa Margarita Groundwater Agency Directors as follows:

Current Committees

Administrative - Fultz, Henry, Benkert, Bounds, White

Budget & Finance - Fultz, Henry, Sanders

Engineering - Swan, vacant, Busa, Farris, Smolley

Environmental - Fultz, vacant, Fresco, O'Connor, Supp

Lompico Oversight - LoBalbo, Loewen, Norton, 2 vacant

Santa Margarita Groundwater Agency - Lois Henry, Steven Swan, vacant
Alternate Director

Recently LADOC Oversight Committee members Write and Gomez have resigned from the committee (attached). In addition the Budget & Finance Committee has one public seat open. Board minutes reflect that on January 17, 2019 the Board

appointed L. Hammack and L. Sanders as public members to serve with Directors Fultz and Henry, for a total of 4 seats. With the resignation/withdrawal of L. Hammack, we have 3 committee members with 1 public member seat vacant.

As part of the replacement process the District is moving forward with advertising for replacement members for the LADOC Committee. In addition we could advertise for a position on the Budget and Finance Committee if the board desires. Display Ad's in the Press Banner cost \$265 per week and we usually run the ad for a minimum of 3 weeks totaling \$795. We can run all three openings in the same ad keeping the cost down. In addition to advertising in the Press Banner we post openings on the District Web site and Facebook account. For LADOC we will be trying something new placing a notice for the committee at the entrance to Lompico (common posting location) to increase exposure.

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

There are current vacancies on the Environmental Committee, the Engineering Committee and Santa Margarita Groundwater Agency Alternate Director. The Board may also wish to fill those vacancies.

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

It is recommended that the Board Chair review Board Committee assignments and recommend appointments to fill vacancies on committees and Santa Margarita Groundwater Agency subject to Board of Directors approval.



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

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

Thursday, March 21, 2019 at 6:30 p.m., SLVWD, 13057 Highway 9, Boulder Creek, CA 95006.

1. Convene Meeting 6:30 p.m.

Roll Call: Bruce, Swan, Henry, Fultz present. Dir. Smallman was absent.
Staff: R. Rogers, S. Hill, J. Furtado, H. Hossack
Pres. Henry welcomed the public to the meeting.

2. Additions and Deletions to Open Session Agenda: none

3. Oral Communications:

R. Moran-Ben Lomond, said he appreciates the action minutes. He asked how informational material is chosen.

C. White-Ben Lomond questioned if the Board was going to take any action in moving from "at large" elections to "trustee-area" elections.

4. Unfinished Business:

a. 2016 STRATEGIC PLAN REVIEW

R. Rogers introduced this item. Moving forward to update the plan. Brent Ives has provided a proposal to facilitate an update on the Strategic Plan. R. Rogers said that he had sent out a request for proposal to 2 other facilitators but did not receive response to inquiries. He thinks it's a good idea to have someone come in to work with the Board and public.

L. Henry said that she always had a facilitator for strategic plans in the past. The Strategic Plan is necessary to navigate the future.

M. Bruce agreed with Pres. Bruce. It's a detailed and complex process and it's good to have somebody who's impartial to steer us through the process. Mr. Ives familiarity with the District is a plus but she is concerned that he may not be interested in working anymore. She likes the process in his proposal.

B. Fultz has engaged with him before and found his work product to be very pedestrian. He doesn't want to spend \$8,800 or \$10,000 on this proposal. He said he took it upon himself to started his own version of the

Strategic Plan. He said he should have a draft by next meeting. He said that he thinks that the Board should write the Strategic Plan.

L. Henry said that the problem is that Dir. Fultz can't talk to the Board in private. It was one thing for him to write the Board Policy Manual and she still has an issue with that.

B. Fultz it's not meant to be the end all, it's a draft that people can edit. He doesn't want to spend money with someone that he thinks doesn't do good work.

M. Bruce said that there are other facilitators. She said that she is uncomfortable with any one of the Board members taking ownership of the document. We hire professionals.

S. Swan said he is not keen on another sole source proposal. He thinks Dir. Fultz makes a great effort but he is concerned that it could lead to a violation of the Brown Act. Perhaps he could bring his draft to a workshop for the Board to work on. He said he wouldn't mind giving Dir. Fultz's idea a try. He's in favor of saving the money and having a workshop to work on this.

C. Baughman-Boulder Creek, said whatever process is used, all 5 Board members need work together. Facilitation helps organize the process.

L. Farris-Felton said that review of the Strategic Plan in the packet leads several thoughts to share. Set clear direction over a rolling 5-year period. 1 or 2 pages are all that is necessary. The current plan has too much information. He said it combines strategic with tactical.

V. Champlin-Brookdale said he thinks he likes what he has heard for the most part. The directors are responsible for the plan; they need to own it. Staff can provide help.

L. Henry agrees that the plan should be looked at every year. We need to be looking at the plan.

M. Bruce agrees that the Board needs to own the plan.

C. White said that the Board needs to get out of the weeds. The job of the Board is not to be doing the day to day work. The staff is more that capable.

B. Fultz said he is not prepared to quibble.

R. Rogers said that he does not think that it is the staff's job to write the plan, it's the Board's responsibility. He believes someone from the outside should be hired to work with staff and the Board in a workshop. He thinks you can proceed with Dir. Fultz's idea but it needs to be done in a meeting.

B. Fultz said that he is concerned about walking into the workshop without something to start with. His intention was to prepare a starting point. The Board can decide if they want to use all of it, some of it, none of it.

S. Swan asked if it will be based on the 2016 plan. Let's start with what we do have, keep the good stuff and expand on that.

B. Fultz he said that he found that the current plan is not a strategic plan it's a tactical plan. It has specific tasks that are going to be accomplished. He envisions a very different format.

R. Rogers the current Strategic Plan is a great place to start. We are locked in on projects. It's the philosophy of Board that we need to get into and how to move forward.

S. Swan agreed with R. Rogers. He said to schedule a workshop and have Dir. Fultz bring his draft and also have the current plan. He doesn't think

Dir. Fultz is taking ownership he is just offering his skills to save us \$10,000.

R. Rogers questioned how to move forward/facilitate a workshop.

B. Fultz said that there has to be facilitators in Santa Cruz County.

M. Bruce suggested that some of our committee members might be facilitators.

L. Farris said he would have a proposal for facilitation within 2 days.

L. Henry said she thinks this is being simplified more than it should be.

R. Rogers suggested that he come back to the Board with a plan/outline to move ahead.

L. Henry she said she would feel better if the entire Board was all more involved in the process.

5. New Business:

a. REJECTION OF DAMAGE CLAIM - N. BARRICK

R. Rogers introduced this item. Nancy Barrick filed a claim for \$516.60 for plumbing damage and 4 months high consumption on October 15, 2108. Customer service staff has spent an excessive amount of time, both in field and office staff, on this issue. A water audit was performed. We installed a Badger meter because of her complaints of high water usage. We saw a continuous usage of ½ to 1 gallon per hour which we determined to be a leak. Ms. Barrick disagreed there was a leak. When a leak was found she claimed it was caused by staff. We believe she had a leak all along.

L. Henry said that she contacted Ms. Barrick. She said she sent Ms. Barrick an email and told her that leaks are hard to find. She became unhappy. Ms. Barrick continued to claim there was no leak and all of a sudden she found a leak and blamed the District.

S. Swan said that from all of the emails he can see that Ms. Barrick was frustrated. He questioned if she had been difficult in the past with calls regarding other leaks or credits.

S. Hill responded that almost every summer. When the Badger meter was installed in October 2018 we had daily visuals of usage. The usage showed 24/7 on Badger. S. Hill gave her the tools to look at her usage and it took months for her to log on and look at the information.

B. Fultz noted that these situations are frustrating for everyone. He appreciates data. Data patterns show that everything is very consistent. Are the new meters more sensitive to water flow?

R. Rogers you have to know how to read meters, our staff know what to do to find evidence of leaks. They are very slow sometimes. The new meters are much easier to read.

B. Fultz the Badger meter seems to have picked up a leak that was there and wasn't being caught with the old meter.

L. Henry noted that even when her usage goes down, she was using more than one unit of water even though she said she wasn't showering at home or doing laundry at home.

S. Hill said the October 2017 - April 2018 usage was 1 or 2 units, then it went up to 8, 8, 5, 6, 4, 3, 7, 6, 8, 7 so there was something going on.

B. Fultz if she was by herself, as she says, this would be high. Everyone that has a leak needs to understand there is a process we go through. Based on this, I see there is a leak there.

R. Rogers said the leak was in a valve 10 feet from the meter.

M. Bruce questioned if it is possible that her claim is true, in the process of changing out the meter the pipe was cracked.

R. Rogers said the leak was found in an old service line in a valve. At 10 feet in the is enough cover to protect from any force from a meter change. There's not a lot of force put on the meter. He was sure that we have no responsibility.

L. Henry said she hasn't given any proof of paying a plumber. Who is this plumber? There are no receipts.

R. Rogers said the usually when there is a plumber, we meet the plumber as the location.

B. Fultz questioned if there is a possibility this will go to small claims court. He wants to make sure everyone understands that will involve staff time costs.

R. Rogers said that no attorneys will be involved but it could be the better part of a day. He is concerned that more people will files claims if the precedence is set that we pay off.

L. Henry questioned how can Ms. Barrick win in small claims without receipts.

R. Rogers said that it has been his experience that the court wants hard evidence.

S. Swan shared information about a leak at his house in Texas.

S. Hill said that Ms. Barrick was told in December that she had a leak. It was February before she took action. We do have a leak adjustment program.

S. Swan suggested that we offer her some sort of compensation.

R. Rogers said she was offered a leak adjustment and refused.

B. Fultz people should be reminded to do repair work on old supply lines before they have a leak.

R. Rogers said he would like to do away with leak adjustments. When everybody has a Badger meter, leak adjustments won't be necessary.

B. Fultz made a motion that the Board reject the claim.

M. Bruce seconded the motion.

L. Farris questioned if we can invoke binding arbitration for a chronic complainer.

S. Hill responded that in most cases the customer receives a large bill, the District goes out and finds a leak, then the customer takes care of the leak.

C. Baughman shared the story about his leak. It is never going to be found.

S. Hill shared her leak story.

R. Rogers said we need to move ahead in getting more Badgers installed.

V. Champlin questioned the time resolution on the Badger meters.

S. Hill the badger reports in 15 minute increments, retains the information and transmits once daily.

All present voted to reject the claim. Motion passed.

- b. LOMPICO ASSESSMENT DISTRICT OVERSIGHT COMMITTEE CHARTER
R. Rogers introduced the item. T. Norton, LADOC chair, wrote a memo read by R. Rogers.
M. Bruce questioned page 5, there's a change in the text color.
B. Fultz said this is a model of how things should be put together.
R. Rogers said that staff made a point to guide and not dictate to them.
B. Fultz made a motion to accept the LADOC Charter.
M. Bruce seconded.
All present voted in favor of the motion. Motion passed.
- c. REQUEST FOR PROPOSALS FOR THE DISTRICT WEBSITE
R. Rogers introduced this item. The Admin Committee recommends that the Board approve the RFP for the District website.
M. Bruce questioned when does the staff anticipate the RFP going out.
S. Hill said it will go out immediately. We have 7 companies we will be sending this out to initially.
B. Fultz made a motion to accept the RFP for website redesign.
S. Swan seconded.
All present voted in favor of the motion. Motion passed.
- d. LOCAL AGENCY FORMATION COMMISSION ELECTION FOR SPECIAL DISTRICT REGULAR BOARD MEMBER
L. Henry introduced this item.
R. Rogers read the memo.
B. Fultz noted that there are 3 seats but only 2 are mentioned. (The 3rd seat is the alternate.)
B. Fultz made a motion for the Board to vote for Edward Banks.
S. Swan seconded.
C. Baughman suggested Rachel Lather be the choice of the District. He has a very favorable impression of her.
B. Fultz was equally impressed with Mr. Banks description of business background.
All present voted in favor of the motion. Motion passed.

6. Consent Agenda:

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

- a. REVISED MINUTES FROM SPECIAL BOARD OF DIRECTORS MEETING JANUARY 23, 2019
- b. MINUTES FROM BOARD OF DIRECTORS MEETING FEBRUARY 21, 2019

c. MINUTES FROM SPECIAL BOARD OF DIRECTORS MEETING
FEBRUARY 28, 2019

d. MINUTES FROM BOARD OF DIRECTORS MEETING MARCH 7,
2019

M. Bruce made a motion to approve the Consent Agenda with the exception of the February 21, 2019 meeting.

B. Fultz seconded.

L. Farris noted that it was the District Counsel that pulled the Consent Agenda from the last meeting so he thinks that the attorney should weigh in.

All present voted in favor of the Consent Agenda minus the meeting on February 21, 2019. Motion passed.

B. Fultz made a motion to approve the minutes from the February 21, 2019 meeting.

S. Swan seconded.

3 votes in favor, Director Bruce abstained. Motion passed.

7. District Reports:

No action will be taken and discussion may be limited at the President's discretion. The District encourages that questions be submitted in writing (bod@slvwd.com) on items listed in the District Reports. Questions submitted, if any, will be posted in the next available District Reports, along with a reply.

- DEPARTMENT STATUS REPORTS

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

- Administration/Engineering

- Finance

- Status Report

- Bill List

L. Henry questioned a payment to Wine Country for \$500. (this charge was for calibration of a scale)

M. Bruce thanked Dist. Mgr. for adding a Board meeting subject calendar.

- Operations

- Environmental

- Legal

- COMMITTEE REPORTS

- Future Committee Agenda Items

- Committee Meeting Notes/Minutes

- LADOC Minutes 2.26.19

- B & F Minutes 3.5.19

- Admin Minutes 3.6.19

8. Written Communication:

- Letter from D. Loewen & E. Frech

- Letter from J. Hofvendahl

9. Informational Material:

- Water Board Director Censured - SC Sentinel 3.4.19
- Smallman Censured - Press Banner 3.8.19
- Santa Cruz County Water Resources Management Status Report for 2018

R. Rogers noted that another Coffee Chat took place.

10. Additions and Deletions to Closed Session Agenda: None

11. Oral Communications Regarding Items in Closed Session: None

12. Adjournment to Closed Session 8:12 p.m.

- a. COMPLAINT RE: PUBLIC EMPLOYEE
Government Code Section 54957(b)
- b. CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION
Government Code Section 54956.9(d)(1)
Holloway v. Showcase Realty Agents, Inc. et al.
(Santa Cruz Superior Court Case No. CV180394; 6th District Court of Appeal Case Nos. H044505, H044800).
- c. CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION
Government Code Section 54956.9(d)(1)
Vierra v. San Lorenzo Valley Water District, et al.
(Santa Cruz Superior Court Case No. 18CV00890)

13. Reconvene to Open Session 9:16 p.m.

14. Report Action Taken in Closed Session

- 12b. 4 - 0 vote. Smallman was absent.
The Board voted in favor of making the 6th District Court of Appeal case Holloway v. Vierra decision public and to post with the agenda.
- 12c. 4 - vote. Smallman was absent.
The Board voted to approve the District moving forward with mediation with all parties in regard to the Vierra and Holloway cases.

15. Adjournment 9:19 p.m.



**BOARD OF DIRECTORS
SAN LORENZO VALLEY WATER DISTRICT
MINUTES
April 18, 2019**

Thursday, April 18, 2019 at 5:30 p.m., SLVWD, 13057 Highway 9, Boulder Creek, CA 95006.

1. Convene Meeting 5:30 p.m.
Roll Call: Smallman, Fultz, Swan, Henry
Staff: R. Rogers, H. Hossack
2. Additions and Deletions to Closed Session Agenda: None
3. Oral Communications Regarding Items in Closed Session: None
4. Adjournment to Closed Session 5:31 p.m.
 - a. CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION
Government Code Section 54956.9(d)(1)
Holloway v. Showcase Realty Agents, Inc. et al.
(Santa Cruz Superior Court Case No. CV180394; 6th District Court of Appeal Case Nos. H044505, H044800).
 - b. CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION
Government Code Section 54956.9(d)(1)
Vierra v. San Lorenzo Valley Water District, et al.
(Santa Cruz Superior Court Case No. 18CV00890)
5. Convene to Open Session at 6:30 p.m.
6. Report of Actions Taken in Closed Session
L. Henry said there is nothing to report out from Closed Session.
7. Roll Call: Smallman, Fultz, Swan & Henry were present.
Staff: R. Rogers, S. Hill, J. Michelsen, D. Langfield, H. Hossack
8. Additions and Deletions to Open Session Agenda: R. Rogers welcomed Darren Langfield, our new District engineer.
9. Oral Communications:
 - L. Henry explained that the public may have 5 minutes for public comment on anything that pertains to the District.
 - J. Gomez, Lompico-read from a prepared statement. She said that the rule limiting a citizen to serve on only one of the committees seemed contrived to her. She feels that this Board is only offering civility and public engagement to its

supporters. This Board's president tried to make enemies with her and her family by filing a false and vexatious complaint against my husband with his employer the Santa Cruz Police Department. In doing so you have effectively taken away his right to participate here. She believed the complaint was in retaliation for a letter her husband sent to the Diversity Center. The letter was attached to the complaint. She can't imagine what the tax payer funded investigators must have thought when they realized someone was complaining about one of their officers for standing up for a persecuted minority community. Pres. Henry insults both her husband and Margaret Bruce by claiming their motivation was political. The letter you are proposing to send to the Press Banner is a stunning and shameless attempt at false equivalency. A wise and mature Board would be thanking Margaret Bruce for her years of dedication and service, and wishing her well. With respect to the complaint against her husband, she would like the Board President to be advised that he is an honorable and courageous person who has served and protected for nearly 15 years. He has received numerous commendations and attended thousands of hours of training on diversity and discrimination, racial profiling, tolerance, mental health and crisis intervention, etc. Det. Gomez has been involved with the Diversity Center and knows the training is useful and effective. She said she will continue to attend meetings and advocate for environmental issues. She encourages this Board to treat all of their customers and volunteers with dignity, respect and appreciation.

B. Fultz asked if her complaint was against the Board. He didn't understand. J. Gomez explained that the Board President submitted a false and vicious complaint against her husband with his employer, the Santa Cruz Police Dept. She believes the Board President was acting out of retaliation for her husband speaking out against hate. She didn't submit the complaint on behalf of the Board.

10. Unfinished Business:

a. CLASSIC WATERSHED EDUCATION GRANT PROGRAM - 2018 FINAL REPORTS

J. Michelsen explained this item. Last year the Board awarded a number of Classic Watershed Education Grants and 2 of the applicants have completed their contracts and submitted reports. J. Cursio, science teacher from the elementary school with 130 kids and 99 parents on Science Night. The Banana Slug String Band for multiple water conservation and watershed performances at multiple schools throughout the San Lorenzo Valley. The District grants 90% of the total contract at the beginning and the final 10% is granted after a final report is received. Staff is asking the Board to accept the final reports.

A motion was made to accept the reports by Dir. Swan. The motion was seconded.

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

b. LETTER TO PRESS BANNER

G. Nicholls explained the item. The letter is attached to the packet for the Board's review and amendments.

B. Fultz questioned if the letter is coming from the entire Board and should the entire Board be on the signature.

G. Nicholls asked the Board how they would like the letter signed.

B. Fultz said it needs to be a broad statement.

D. Loewen appreciates the letter and agrees it should come from the entire Board. She also suggested the Dist. Counsel and Dist. Manager also sign the letter.

J. Gomez said she thinks it's a terrible letter. She said it is unnecessary, mean spirited and disrespectful

B. Nahrwold-Ben Lomond, said she agreed with the letter. She said that at past Board meetings M. Bruce was disrespectful.

B. Fultz said none of this has been fun for anybody. The letter is not meant to be spiteful. It's defending the integrity of the Board members who were attacked in social media. Attacks and disparagement have to be addressed.

B. Fultz made a motion to adopt the letter with the amendment of being signed by all 4 Board members.

B. Smallman seconded.

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

11. New Business:

a. HYDROGEOLOGIST REQUEST FOR QUALIFICATIONS

J. Michelsen introduced this item. N. Johnson, our hydrogeologist for many years, is no longer available for consultation. An RFQ was prepared for an as needed consulting for a hydrogeologist. We suspect we will be needing consultation regarding the SMGWA, groundwater and surface water sustainability, water supply, conjunctive use, well locations, prepare reports for Board meetings, hydrologic assessments, Water Master Plan, etc.

S. Swan questioned if this person works with SMGWA.

J. Michelsen responded the SMGWA already has a hydrogeologist they are working with. This person would be working on behalf of SLVWD to insure that what the SMGWA is meeting SLVWD's needs.

R. Rogers we would want a second opinion related to the District.

B. Smallman questioned if we are looking for as needed services.

J. Michelsen the contract would be for an annual budgeted amount.

B. Fultz said that he noticed the fee schedule is in the double secret process. He doesn't believe that the District is legally required to follow the Mini Brooks Act. It's a very unsatisfying process. What's the value, what's the price? He would like that to be incorporated into the RFP's and RFQ's.

R. Rogers said basically it's an hourly wage we want from them.

J. Michelsen said we can make change as long as its legal.

L. Henry said that the other issue here is that we have to deal with SMGWA and they have a hydrologist and we need to know for our benefit what a hydrologist has to say, not rely what SMGWA's hydrologist says.

R. Rogers said we have other needs for our own well field, which we evaluate annually. There are regular duties this individual would fulfill.

J. Michelsen said what we are asking is that the Board authorize staff to solicit proposals from qualified consultants to provide as needed hydrogeological services.

B. Smallman made a motion for a request for RFQ for a hydrologist.
B. Fultz seconded
C. Baughman said this is an extremely important function to have in place for the District.
All present voted in favor of the motion. Motion passed.

b. REDWOOD MOUNTAIN FAIRE SPONSORSHIP

R. Rogers read the staff memo regarding the Redwood Mountain Faire sponsorship.

S. Swann questioned what is included in the sponsorship.

R. Rogers we supply a tank of water. It's approximately a \$2000 value.

S. Swan questioned what does the District get for the \$2000.

R. Rogers said that we have a booth there with a banner with our name.

B. Fultz said that he thought we were being paid for the water.

S. Hill explained that normally a sponsor pays to have a booth there.

J. Coffis, Ben Lomond - presented the Redwood Mountain Faire 10th anniversary 2-day music and art festival. It is a community event for the San Lorenzo Valley and raises \$50,000 each year to give back to the community's schools and non-profit organizations. SLVWD has been a sponsor for all 10 years. The water is very popular at the fair and the program has been emulated by other fairs in the state. This year they will be banning all plastic cups. Feel good for the community. Request for water but he would also like to request a generator.

R. Rogers said we asked about the generator and the response back was that a generator wasn't needed.

J. Coffis said that they usually have a backup generator.

B. Fultz questioned what is the policy for participation in these kinds of events.

R. Rogers said that to his knowledge we don't have a written policy. Usually a case by case request comes to the Board.

B. Fultz questioned if we get requests.

B. Smallman said that we don't want to have a fair and have people selling plastic bottles of water. Community involvement like this is priceless. It only costs each customer \$.25 per year.

B. Fultz questioned are there no cups at all.

J. Coffis explained that there will be cups in the first aid station. For people that have zero other options and need hydration. You bring your own water bottle. The point is we are reducing waste. No plastic cups will be used for beer either.

N. Macy explained it's \$10 for your first alcoholic beverage and that included the glass.

S. Swan questioned where do the glasses come from. He would be interested in selling the glasses in our water booth.

J. Coffis said the total operating budget for this faire is \$150,000 and it generates \$50,000 for community projects.

S. Swan said that the Faire can pay \$2000 and the District will provide the water.

J. Coffis said that if the District doesn't sponsor the water they will have to find someone else to. The faire has to have water.

B. Smallman said environmentally we are setting an example to the community.

B. Fultz questioned how does the staff situation work for this.

R. Rogers said that staff preps the tank during regular working hours. On the weekend we set it up so that the on call staff will stop by while he is out on a call, so that it's part of the 2-hour minimum. Or some of the staff go to the faire and they will keep an eye on the tank. Staff does not man the water booth.

J. Coffis said that the faire staff the water booth with volunteers with Boy Scouts and Girl Scouts and other volunteers that receive grants from the faire.

S. Swan questioned if Scotts Valley Water District has provided water.

J. Coffis other community orgs there for outreach.

J. Mosher is supportive of community better than bottled. Positive. Magnet need water. Appreciated.

D. Loewen says the question from the community. Is it's the water. Suggested that RMF

J. Coffis said that since the faire is in the San Lorenzo Valley they have never asked Scotts Valley for water. He believes that they have an event in Scotts Valley the same weekend. The faire has several community outreach sponsors from agencies in Santa Cruz County.

J. Mosher-Felton, spoke in support of the faire and for the District to continue the sponsorship. This is an amazing event that gives the District an opportunity to send an important message to the community that we have high quality water that's better than what you buy in a bottle. It's important to have free water at the event.

D. Loewen said it's not free water the District is paying for it.

J. Coffis said the faire is the only annual event in the valley where you can see 50-60% of the population in one place.

B. Fultz questioned if there is a water connection at the Roaring Camp.

R. Rogers said not at this time. They have their own source but it is not very good and they are in the process of annexing into the SLVWD. Right now they are out of our service area. They have inadequate water and electricity supplies. Their water is not potable.

B. Smallman made a motion to approve the cost of supplying water for the 2019 Redwood Mountain Faire.

L. Henry seconded.

Dir. Smallman voted in favor of the motion, all others voted no. Motion fails.

c. SANTA CRUZ COUNTY PARKS USE OF GLYPHOSATE

R. Rogers introduced this item. It has come to the District's attention that the County Parks has or plans to use glyphosate on the easement property.

The District has banned the use of glyphosate and does not wish for it to be used on the easement property. A letter was sent to the County requesting that the County not use glyphosate on District property.

B. Fultz questioned if there is nothing in the easement that is explicit about following District policies. Can we ask for an amendment?

R. Rogers said we can always ask. We haven't heard back from the County. He hoped that they would honor our request. He has heard both that they have already used it and that they will not use it. Nothing in writing for clarification.

G. Nicholls said that the use of glyphosate would be outside of the scope of the current easement.

B. Fultz questioned if we can make it explicit not implicit.

G. Nicholls said it's fair to say the County should not be using glyphosate on District property.

B. Fultz read from the easement.

B. Smallman said the use of glyphosate doesn't bode well for the County.

R. Moran-Ben Lomond, said he has been in contact with Santa Cruz County. He said they have not used it yet.

J. Mosher representing the Felton Library Friends read a letter from the Felton Library Friends.

D. Loewen said she would like the Board to follow the recommendation to add the ban on the use of glyphosate all easement property as soon as possible.

B. Nahrwold said the District needs to stand firm on the ban of glyphosate.

B. Fultz said he personally would like to amend the easement.

G. Nicholls said we don't need a motion; we'll just ask the County.

d. **DRAFT FISCAL YEAR 2019/2020 PROPOSED BUDGET - REVENUE & EXPENSES**

S. Hill introduced this item. The B & F Committee met on April 9th and went over the numbers. High level operating revenues are forecasted to be \$10.8 million. Proposed operating expenses is \$8.3 million, leaving an operating income of approx. \$2.5 million. Non-operating revenue of \$1.3 million, non-operating expenses of \$1.1 million, overall increase is forecasted to be \$2.7 million.

B. Smallman questioned if the Board needs to take action on this tonight.

S. Hill said that this is a draft so it will go back to the B & F Committee. She is asking the Board for direction on environmental expenses.

S. Hill explained that she is looking for direction. They removed things from the budget that they know the Board doesn't support. Is it a no spend, some spend?

B. Smallman would like to go item by item and discuss as a Board.

R. Rogers said that he would like to hear from the full Board on the draft budget.

B. Smallman said the fish monitoring program is money well spent, just for water quality alone.

L. Henry said the Board has a lot of things they have to do. There's 5 years of deferred maintenance. There's not enough money to fix the infrastructure, for emergencies, or just funds to run the District. We need millions of dollars to fix things. You have to start somewhere. Reserves need to be better. This is a water district and we need to provide water to the community.

B. Fultz said he ran some numbers using last year's budget. He would like to see the budget go down from last year.

L. Henry said she thought it was a 4% increase but you say it's a 10% increase.

B. Fultz said he is having a hard time following it the way it is formatted.

S. Hill said you have a full year with an engineer.

B. Fultz said it's clear that the District needs to move from a pure operating focus to an engineering/construction focus. Rate payers are looking at these numbers and know inflation isn't going up as fast as the expenses or the amount of money they are having to pay for this. And it's not clear exactly what the ROI was for each of these years.

S. Hill said this is not a typical ROI business. When you have spikes in operating expenses because you had a horrible winter with massive amounts of pipe breaks, you're not going to find ROIs on every single thing.

B. Fultz said that needs to be broken out separately.

S. Hill explained the audit v. budget

S. Swan said they are asking for general direction from the Board. We want the operating expenses to decrease by 10%, let them figure it out. He would like to see the numbers without the upcoming rate increase.

S. Hill she would like the Board to be mindful of all of the different buckets. A lot of the expenses are fixed. expenses, you're talking about laying off employees to see those kinds of results. We can pull out some of the more discretionary, for example training, conferences, memberships, etc. The budget does assume a 3% cost increase for labor. She wants to get a feeling from the whole Board and see if we can get an idea of what we can do to drill down at the next B & F.

B. Smallman said that \$90,000 is \$11.39/per customer for the year. He said he has savvy business plans saving millions of dollars.

L. Henry our biggest expense is staff. We can't reduce staff. The State has been on top of SLVWD for years about not having adequate field staff. We finally have adequate field staff, so who are you going to get rid of?

B. Fultz said he thinks that the Board should look at what kind of changes we can make in how we do business. Is it in the best interest of the District to own the watershed property? In light of rapidly accelerating expenses we owe it to our ratepayers to say we did a deeper dive on this. He would like to see a flat or -5% budget.

L. Henry said we can ask Stephanie to do a flat budget and see what it gets us. Or down 5%, how do we accomplish that?

- S. Hill said she can do something along those lines. Look at gas prices, we don't have control over that.
- S. Swan said he doesn't know why we don't look into increasing the revenue. He thinks we should put together a committee that looks into opportunities to increase revenue.
- S. Hill said that a public member of the Admin Committee suggested PR campaign about how good our water is.
- S. Swan said that's the kind of thinking that gets you started maximizing revenue opportunities.
- S. Hill said the Strategic Plan can be a strong guiding point.
- B. Smallman said again the small amount of \$90,000, the benefits speak for itself.
- L. Farris questioned the capital budget roll out date. Time is of the essence because it is a significant part of the budget.
- S. Hill said that she will have the capital budget at the May 7th Budget & Finance Committee. She added that she sees an end in sight, the District has been working off of a staffing study since 2016 that's where a lot of the positions were discussed. Compared to the prior budget it will put the District up to 36 employees total. She sees the larger increases coming to an end.
- L. Farris questioned if there is anything she needs from the Engineering Committee for the capital budget.
- S. Hill responded that Darren and Kirsten are working on timelines.
- J. Kendall-Ben Lomond, said that he has been on the wrong end of public services cutting personnel. \$90,000 is less the 1% of the total budget but is wiping out portions of foundational information for monitoring the water supply.
- J. Mosher said he is concerned that the District's mission doesn't include preserving and protecting the watershed. Thought this Board said that they could protect the watershed a different way.
- C. Baughman said he heard a Board member ask "is it in our best interest to own the watershed". The answer is resoundingly yes. You want to protect your well heads the best way to protect them is to own the land. Without the analysis is it even possible to cut 5% from the budget without cutting staff? Thank you Dir. Henry for recognizing importance of staff.
- N. Macy-Boulder Creek, each of you has claimed how important the environment is to you and that you understand the interdependence of the watershed and waterways, you can demonstrate that with the budget. Demonstrate to everyone who believed you when you said that.
- D. Loewen she believes that the District has always been compliant with environmental requirements. She doesn't know that our reputation is in danger.
- D. Alley, Fishery Biologist, questioned the idea that fisheries monitoring is discretionary. Many agencies have fishery biologists on staff. You can't be in a vacuum; you don't grasp the complexity of environmental regulations. Jen knows how difficult it is to get permits.

When you lose trust and confidence from the regulatory agencies you generally have to do more monitoring.

L. Henry said to S. Hill to show the Board some different scenarios.

S. Hill asked if they want her to list things she thinks are yes/no.

R. Rogers said they will send the budget back to the dept. heads for more cuts.

L. Henry show what would happen if we were flat or reduce 5%.

B. Fultz said he understands these conversations are uncomfortable. The ratepayers of this District expect the Board to have these discussions.

B. Smallman said they need more detail on the cuts they discussed.

R. Rogers said expenses for operations of the water system/supply and treatment come before water conservation. Health & safety come first.

B. Fultz said when he looks at leakage and leak detection every year that's a huge savings in water production.

R. Rogers said you won't see the same amount doing it every year.

Doing it every 3 years is more of what you get.

S. Swan said I think staff understands what we want to see. Look at what ifs.

L. Henry said she doesn't think we'll be using consultants like we did in the past. We have an engineer now. Why do we need a bunch of consultants?

B. Fultz said there's no difference in the contracted services in the budget.

B. Smallman said with the in-house engineering less money to WSC.

12. Consent Agenda:

- a. MINUTES FROM BOARD OF DIRECTORS MEETING APRIL 4, 2019
The Board accepted the minutes.

13. District Reports:

- DEPARTMENT STATUS REPORTS
Receipt and consideration by the Board of Department Status Reports regarding ongoing projects and other activities.

- Administration/Engineering

- Finance

- Status Report

- Bill List

S. Swan questioned the elections charge for \$25,000. It was explained that was what the elections cost.

- Operations

- Environmental

- Legal

R. Rogers suggested that the next meeting on May 2nd move to Highlands Park. The Board prefers to have the meeting at the usual Boardroom.

L. Farris questioned J. Michelsen about several times a month meetings attending Felton Library Friends is that her time or District time. J. Michelsen explained that she had been working on the easement with the Library. That is done now so there won't be so much time on meetings with the Library.

- COMMITTEE REPORTS
 - Future Committee Agenda Items
 - Committee Meeting Notes/Minutes
 - Environmental Committee Minutes 3.21.19
B. Fultz said he wanted to bring up the Environmental Comm. Zayante Creek project. He has some issues with the indemnity clause.
 - Administration Committee Minutes 4.3.19

14. Written Communication: None

15. Informational Material:

- Court of Appeal Decision-Holloway v. Vierra
B. Fultz is happy that the Court of Appeals Decision is in the packet.
- Director Resigns - Press Banner 3.29.19
- Bruce Resigns - Press Banner 4.5.19

16. Adjournment 8:59 p.m.



County of Santa Cruz

HEALTH SERVICES AGENCY

701 OCEAN STREET, ROOM 312, SANTA CRUZ, CA 95060-4073

(831) 454-2022 FAX: (831) 454-3128 TDD/TTY – Call 711

www.scceh.com

ENVIRONMENTAL HEALTH

April 15, 2019

Board of Directors
San Lorenzo Valley Water District

Subject: Funding for Steelhead Monitoring Program

Dear Board Members,

We have reviewed your proposed draft 2019-20 budget and have noted that it does not include any funding for the Steelhead Monitoring Program. We greatly appreciate your District's contributions in the past to this joint cooperative effort and believe that the information that this program provides is critical for supporting continued use of the streams for water supply while minimizing adverse impacts on threatened fish populations. The information provided by this program and other monitoring and management programs provides the resource regulatory agencies the data and the assurance that your District and other local agencies are managing stream sources in a responsible manner.

I am writing to ask that you consider continuing to fund the Steelhead Monitoring Program for the fiscal year 2019-2020. The program is a voluntary partnership among 7 water districts and other public agencies to collect juvenile steelhead and stream habitat data in 4 watersheds: San Lorenzo, Soquel, Aptos and Corralitos. Your District has been instrumental in funding this long-term monitoring program since 1994 and has been a consistent partner since 2006 when the County of Santa Cruz started managing the program.

Your District's contribution to the monitoring program serves to document conditions in streams where SLVWD water diversions could be expected to impact threatened steelhead and endangered coho salmon. Specifically, your contribution funds fish sampling on streams of interest to the District, including Boulder Creek, San Lorenzo Mainstem downstream of Boulder Creek, Fall Creek and Zayante Creek. The data from the two Fall Creek sites are being used to develop bypass flow requirements at the Fall Creek diversion. The California Department of Fish and Wildlife and the National Marine Fisheries Service are part of the Partners Group and are supportive of the District's participation in the Steelhead Monitoring Program.

In order to complement and build on the annual fish and stream monitoring, the County of Santa Cruz has contributed more than \$150,000 in the past few years to develop a database and

analysis of the monitoring data. Within the past year, we have mostly completed the database and developed a website for the program that includes an award-winning Program Overview, shows the monitoring results, and provides access to the data. This spring, we will be completing a data analysis tool and will be able to examine the relationships between fish densities and stream habitat to better inform water resources management and stream habitat restoration efforts. With the database finally complete and the data analysis tool completed soon, we are looking forward to adding new data from the 2019 season. The County also coordinates and manages the federal Section 10 Permit that allows the sampling of steelhead and coho salmon.

We appreciate your Board' desire to reduce costs. However, given the value of continued District participation in the steelhead monitoring program, we would encourage you to consider reducing your contribution rather than eliminate your participation entirely. We would be glad to discuss these options further with you or your staff.

Sincerely,

A handwritten signature in cursive script, appearing to read "John A. Ricker".

John A. Ricker
Water Resources Division Director

Holly Hossack

From: Jankovitz, Jon@Wildlife <Jon.Jankovitz@wildlife.ca.gov>
Sent: Wednesday, April 17, 2019 4:56 PM
To: Board of Directors
Subject: Funding for Steelhead Monitoring Program

Dear Board of Directors,

As the District Fisheries Biologist and regional representative, I am writing on behalf of the California Department of Fish and Wildlife as overtly supportive of SLVWD's financial contributions to the Santa Cruz County Steelhead Monitoring Program. CDFW has been actively working with SLVWD staff on facility upgrades to improve regulatory compliance in good faith as partners in environmental health and fishery recovery. I am discouraged to note your draft 2019-2020 budget does not include funding for the Steelhead Monitoring Program moving forward.

The voluntary Steelhead Monitoring Program has acted as a partnership to the various stakeholder and consumer groups throughout Santa Cruz Co since 1994. The program also represents the only long-term data set focused on stream health and salmonids in the San Lorenzo River Watershed. The information obtained from the annual monitoring has aided CDFW in focusing management, restoration, and enforcement efforts in protecting and enhance the stream resources.

As a direct consumer to the stream resources, I urge the SLVWD to continue to financially support monitoring of the fishery.

Thank you for consideration

Jon Jankovitz
District Fisheries Biologist
Santa Cruz, San Mateo, San Francisco Counties
California Department of Fish & Wildlife
Bay Delta Region (3)
(510) 853 1054
Jon.Jankovitz@wildlife.ca.gov



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

NATIONAL MARINE FISHERIES SERVICE
West Coast Region
777 Sonoma Avenue, Room 325
Santa Rosa, California 95404-4731

April 18, 2019

Lois Henry
President, Board of Directors
San Lorenzo Valley Water District
13060 Highway 9
Boulder Creek, California 95006

Re: NOAA's National Marine Fisheries Services comments for the April 18, 2019 San Lorenzo Valley Water District Board of Directors Meeting, Agenda Item 11(d)

Dear Ms. Henry:

NOAA's National Marine Fisheries Service (NMFS) is the federal agency responsible for managing, conserving, and protecting living marine resources in inland, coastal, and offshore waters of the United States. We derive our mandates from numerous statutes, including the federal Endangered Species Act (ESA). The purpose of the ESA is to conserve threatened and endangered species and their ecosystems. Watersheds within the San Lorenzo Valley Water District's boundary support federally endangered Central California Coast coho salmon (*Oncorhynchus kisutch*) and federally threatened Central California Coast steelhead (*O. mykiss*).

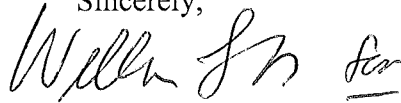
It has come to our attention the San Lorenzo Valley Water District Board of Directors (Board) is considering not funding the Steelhead Monitoring Program in the draft 2019-2020 budget. The Board has been instrumental in funding this long-term monitoring program since 1994. The data being collected helps all of the partners and the public gain a better understanding of local salmonid populations, and conservation and management efforts. Therefore, we are disappointed to see your draft budget does not include funding for this program. NMFS urges the Board to reconsider and to continue the funding.

Programs and projects implemented by the Board may be having impacts on protected species. Permits or other forms of authorization are required under the ESA to conduct activities that may result in the "take" of a protected species. NMFS believes it would behoove the Board to continue funding this program and other monitoring efforts as you seek to comply with the ESA. We would be happy to discuss your ESA requirements and how appropriate monitoring programs play a role in compliance.



Thank you for considering our comments. If you have any questions, please do not hesitate to contact William Stevens, North-Central Coast Office in Santa Rosa, California at (707) 575-6066, or via email at William.Stevens@noaa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Amanda E. Ingham". The signature is fluid and cursive, with a horizontal line underlining the name.

Amanda E. Ingham
Central Coast Branch Chief
North-Central Coast Office



City of Santa Cruz Water Department 212 Locust St. Santa Cruz, California. 95018 (831) 420-5200

ATTN: Board of Directors
San Lorenzo Valley Water District (SLVWD)
13060 Highway 9
Boulder Creek, CA 95006
(via email)

April 18, 2019

Re: Letter of Support for Upper Zayante Creek Stream Wood Enhancement Project

Dear Members of the Board:

I am writing to express strong support for the advancement of the Upper Zayante Creek Stream Wood Enhancement Project, and to encourage the San Lorenzo Valley Water District's Board of Directors to approve and sign the associated Cooperative Agreement that will allow permitting of this important project to proceed.

The Upper Zayante Creek Stream Wood Enhancement Project seeks to improve water quality and enhance special-status salmonid (coho and steelhead) habitat in Upper Zayante Creek, a key tributary to the San Lorenzo River, through the implementation of four types of wood enhancement. Stream wood serves multiple functions including retaining and sorting sediment, providing critical winter refuge habitat for juvenile steelhead and coho salmon, creating pool habitat, and providing cover for salmonids.

The San Lorenzo River has been listed for nonattainment of established water quality standards pertaining to sediment under Section 303(d) of the Clean Water Act. Excessive sedimentation has been exacerbated in many locations due the combined effects of stream-side roads (such as East Zayante Rd adjacent to the Project), removal of native vegetation, removal of instream woody debris, road crossings, and exposure of the stream banks to erosion. In some areas, loss of woody debris has reduced hydraulic complexity and induced channel downcutting thereby degrading water quality, reducing aquatic habitat quality and groundwater recharge and increasing stream "flashiness" downstream. This Project seeks to directly mitigate these threats to water supply and instream habitat through the installation of anchored instream wood, which will retain and sort sediment, and lessen downcutting of the adjacent stream bed and banks.

Zayante Creek has been identified as a priority watershed for special-status salmonid protection and recovery. In particular, Zayante Creek has been designated by NOAA National Marine Fisheries Service (NOAA Fisheries) as a recovery priority for coho – which are functionally extirpated in the San Lorenzo River watershed currently. In addition to supporting improvements in water quality, this Project directly supports the recovery of listed salmonid species through the improvement of their habitat there. Zayante Creek has been characterized as a “bowling alley” for its lack of structure and channel complexity, and NOAA Fisheries has identified the lack of large woody instream as “the major contributor to the lower shelter values estimated in the watershed,” and one of the primary limiting factors for salmonids.

Santa Cruz County partners¹ have been dedicated to the improvement of water quality and habitat restoration of the watershed for over 30 years, and together have conducted numerous studies and plans focused on reducing sedimentation within the watershed, implementing habitat improvements including maintaining stream wood, improving other instream habitat features, monitoring fisheries population status, identifying limiting factors for salmonid recovery, and protecting riparian habitat (Exhibit A). In 2015, Project partners and other watershed stakeholders began participating in the development of the San Lorenzo River 2025 Partnership, which is a 10-year program to identify restoration priorities, align partners on mutually-agreeable goals and find ways to synergize overall restoration efforts in the watershed. This proposed project, the Upper Zayante Creek Stream Wood Enhancement Project, is part of a larger effort by the 2025 Partnership in taking a “top to bottom” holistic watershed approach to enhance water quality and habitat for salmonids in the San Lorenzo River watershed in Santa Cruz County.


As a surface water purveyor, the City of Santa Cruz has a strong commitment to watershed protection, both to benefit fisheries conservation as well as our own drinking water source protection goals. In addition to modifying our own operations so they are more protective of fisheries’ habitat, the City has a strong commitment to environmental education, restoration and other activities that support our overall watershed protection mission. The City has previously successfully partnered with your district on many occasions on a variety of projects including one similar project on Mountain Charlie Creek (a nearby tributary to Zayante Creek on SLVWD and City lands). As previously described, this new project is exactly the kind of project that the watershed needs in order to provide functional habitat for special-status salmonids and also to continue to provide reliable water supply into the future. Without the partnership of SLVWD on this project, it will be markedly less effective and also demonstrate to funders and regulators that we do not have stakeholder alignment on watershed protection goals. This latter concern will likely translate into less state funding being available for San Lorenzo River watershed restoration (and other) projects and increased regulatory scrutiny. The finalization and signature of the Cooperator Agreement associated with the Project by the Board of Directors, is key in not only demonstrating the District’s ongoing commitment to the vital and long-standing partnerships between the San Lorenzo Valley Water District, the Resource Conservation District of Santa Cruz County, the City of Santa

¹ San Lorenzo Valley Water District, City of Santa Cruz, Resource Conservation District of Santa Cruz County, County of Santa Cruz, NOAA National Marine Fisheries, California Coastal Conservancy, State Water Resources Control Board, California Department of Fish and Wildlife

Cruz, and the County of Santa Cruz, but will also ensure that project momentum is maintained and that public funds earmarked for this project are utilized while still available.

Thank you for this opportunity to support this important project. If you wish to discuss this matter further, please contact Chris Berry at (831) 420-5483.

Sincerely,



Digitally signed by Chris
Berry
DN: cn=Chris Berry,
o=City of Santa Cruz,
ou=Watershed,
email=cberry@cityofsanta
cruz.com, c=US
Date: 2019.04.18 16:03:09
+07'00'

Chris Berry
Watershed Compliance Manager

Exhibit A

The proposed project directly implements recommendations from the following studies and plans:

- *San Lorenzo Urban River Plan* (City of Santa Cruz, 2003). The Project addresses several recommendations, including enhanced habitat and passage for steelhead trout.
- *Integrated Watershed Restoration Program for Santa Cruz County*, 2003. Provides a watershed-based approach to improving habitat. This program administered by the RCD of Santa Cruz County includes a fisheries agency technical advisory committee, which has reviewed this project and supports its implementation.
- *San Lorenzo River Sediment TMDL* (USEPA, 2004) The Project will address impairments identified in the TMDL including sediment from channel and bank erosion sources, and loss of suitable stream habitat including spawning, rearing and over summering for anadromous fisheries due to excessive sedimentation.
- *San Lorenzo River Salmonid Enhancement Plan* (D.W. Alley & Associates and Swanson Hydrology and Geomorphology, 2004). The goal of the plan was to evaluate current watershed conditions and make recommendations for steelhead conservation. The Project directly addresses Recommendation WD-4: Incorporate large woody material into stream bank protection projects (p. 86).
- *San Lorenzo River Watershed Management Plan* (San Lorenzo Valley Water District, 2010). The Project addresses objectives and policies of the plan, including: Objective EH5-SLR: Contribute to the protection, preservation and where possible, the enhancement and restoration of significant aquatic resources in the greater San Lorenzo River watershed; and Policy EH5-SLR2: Work collaboratively with other agencies to seek grant funding for habitat enhancement and salmon and steelhead stream habitat improvement projects throughout the watershed.
- *Steelhead and Coho Salmon Conservation Strategy* (County of Santa Cruz 2015). The Project will implement the following conservation strategies of this plan: Continue to implement the Large Woody Material Management Program to enhance the amount of wood in Santa Cruz streams that is effective in improving habitat quality. Support multi-agency efforts to evaluate and address high priority fish passage barriers in the San Lorenzo Watershed.
- *The Juvenile Salmonid and Stream Monitoring Program* collects steelhead and Coho salmon juvenile densities and stream habitat conditions in the San Lorenzo River. Seven local agencies collaborate to fund and direct the program, which is administered by the County of Santa Cruz. These data are used to track steelhead and Coho salmon spawning and rearing habitat conditions, prioritize restoration and conservation efforts, and track restoration project effectiveness. In the San Lorenzo River watershed, six mainstem and 19 tributary sites are monitored each year, including Zayante creek. Many of these sites have been monitored since 1994 with additional sites added in the past few years to provide baseline data for the proposed projects.

RECEIVED

APR 13 2019

**SAN LORENZO VALLEY
WATER DISTRICT**



Felton Library Friends

Libraries Build Community

**PO Box 1245, Felton, CA 95018
831-335-1135**

feltonlibraryfriends@gmail.com
www.feltonlibraryfriends.org

April 19, 2019

Board of Directors
San Lorenzo Valley Water District
13060 Highway 9
Boulder Creek, CA 95006-9119

Dear Board Members:

I am writing on behalf of Felton Library Friends (FLF) regarding the recent disclosure that the Santa Cruz County Parks and Recreation Department was considering the use of the herbicide glyphosate at the Felton Library/Discovery Park site. When this came to our attention (approximately at the same time as your Board), we promptly contacted the Parks Department to raise our concerns. We subsequently contacted Supervisor Bruce McPherson's office. It is our understanding that in light of the community concerns raised by your board, FLF, and others that the Parks Department has decided to withdraw its application for glyphosate use at the library/park site.

We believe the County Parks Department should strictly adhere to the spirit and requirements of the County's Integrated Pest Management Policy which permits the use of herbicides only when there is documentation that alternatives to their use have been fully considered. Specific legal, public health, and safety concerns must also be reviewed. The Policy also emphasizes the importance of public involvement in its implementation.

In the case of the library/park site, the primary problem is the infestation of invasive blackberry plants that are extremely difficult, time consuming, and expensive to eradicate using non-toxic methods (typically by pulling the plants, a process that must be repeated over several years). There also is no guarantee that these methods will be successful. Nevertheless, despite the costs, we support using nontoxic methods first before considering the use of herbicides.

Board of Directors
San Lorenzo Valley Water District
April 19, 2019
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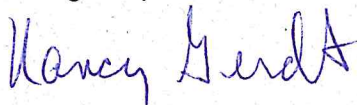
We believe the San Lorenzo Valley community should be actively engaged in the decisions regarding the use of herbicides in our valley. To this end, we are considering establishing a program to monitor and report to SLV residents the progress made to eradicate the invasive blackberries and other invasive species on the site, including the SLVWD easement property, their success, and costs. We can focus particularly on the criteria outlined in the County's pest management policy. This can be part of a broader program to provide resources to the community regarding habitat restoration and watershed protection strategies that minimize or eliminate the use of herbicides and pesticides.

Such a program fits squarely into FLF's vision for the new library/park. Our mission is to support outstanding library and park services to the community, with a special focus on environmental literacy. The library/park facility is bisected by Bull Creek, an SLVWD water source. It is therefore particularly well suited as a location for educational programs that focus on habitat restoration, watershed protection, the impact of global warming, and their connection to SLVWD's mission of providing safe, reliable water to residents and businesses. We are also dedicated to building community – establishing a safe place for residents of all ages to explore, learn, and constructively engage with each other regarding the important issues of our times.

We would like to invite SLVWD to take part in such a program by including the district's efforts to protect the rare and sensitive sand hill habitats from invasive plants without the use of glyphosate. Expanding the program to the sand hills will greatly enhance its value not only for SLV residents but for both professionals and communities across the region and state facing similar habitat restoration issues.

We are grateful that SLVWD is a partner in the library/park project and look forward to continuing our collaboration with the district as the project moves forward and the library/park facilities open.

Best regards,



Nancy Gerdt
Chair
Felton Library Friends



County of Santa Cruz

HEALTH SERVICES AGENCY

701 OCEAN STREET, ROOM 312, SANTA CRUZ, CA 95060-4073

(831) 454-2022 FAX: (831) 454-3128 TDD/TTY – Call 711

www.scceh.com

ENVIRONMENTAL HEALTH

April 23, 2019

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

Subject: Upper Zayante Stream Wood Enhancement Project

Dear Board Members,

I am writing to request that your Board sign the Cooperator's Agreement for the Upper Zayante Stream Wood Enhancement Project. This project has been in development since 2014 and has received strong support from the San Lorenzo Valley Water District since it was first discussed with staff and the Environmental Committee. Based on this support, the Resource Conservation District has managed the development and funding for the project with the SLVWD District, the City of Santa Cruz and the County of Santa Cruz. The California Department of Fish and Wildlife, the National Marine Fisheries Service and other resource permitting agencies have committed substantial resources to the development, review and support for this project.

The Zayante Stream Wood Enhancement Project is similar to many other projects that have been constructed throughout California and the West Coast for salmonid restoration. This project was designed by an engineer with expertise in these types of projects and the design has been and will receive review through the permitting process. Locally, similar stream wood enhancement projects have been constructed in Zayante Creek on the City of Santa Cruz Property, San Vicente, Scotts and Butano creeks. In 1999, the County of Santa Cruz installed 22 structures in San Vicente Creek upstream of a residential neighborhood and there have been no problems with wood structures breaking free and causing damage downstream.

While we appreciate concerns that the current SLVWD Board may have, your organization has already made a commitment to a project that has now been extensively planned and funded and is ready for construction this fall. Your Board's approval of the cooperative agreement will fulfill your District's ongoing commitment to work with our local partner agencies to complete a valuable project that has already seen considerable commitment of resources to bring it to this stage.

We look forward to continuing to work with you on water supply and watershed conservation projects that benefit local residents and local resources.

Sincerely,

A handwritten signature in black ink, appearing to read "John A. Ricker". The signature is fluid and cursive, with the first name "John" being the most prominent.

John A. Ricker
Water Resources Division Director

Holly Hossack

From: John Wright II <johndalewright@icloud.com>
Sent: Monday, April 22, 2019 1:16 PM
To: Holly Hossack
Subject: Re: LADOC

Holly,

Yes I did. It was too much to juggle with family & work.

Thanks,

John

Sent from my iPhone

On Apr 18, 2019, at 3:17 PM, Holly Hossack <hhossack@slvwd.com> wrote:

Hi John,

I heard a rumor that you have resigned from the LADOC. If true, I'm sorry to hear that. Please send me an email confirming your resignation, if you have resigned.

Thank you,

Holly Hossack | Administrative Assistant/District Secretary
San Lorenzo Valley Water District | 13060 Highway 9 | Boulder Creek | CA | 95006
Office (831) 338-2153 | Direct (831) 430-4636 | Fax (831) 338-7986
hhossack@slvwd.com

<image001.jpg>

Holly Hossack

From: Jennifer Gómez <jagomez173@gmail.com>
Sent: Tuesday, April 23, 2019 1:01 PM
To: Holly Hossack
Cc: Rick Rogers
Subject: Resignation

Good Afternoon,

I am writing to inform you that effective immediately I am resigning from the LADOC committee.

I would also like to thank the District for giving me the opportunity to serve. However, with limited time, I have decided that I would like to focus my efforts and energy in other areas.

Sincerely,

Jenni Gómez

Holly Hossack

From: Barry Burt <bfishin@aol.com>
Sent: Friday, April 26, 2019 9:50 AM
To: Holly Hossack
Subject: Steelhead monitoring on the San Lorenzo

My name is Barry Burt and as the conservation Committee chairman of the Santa Cruz Fly Fishermen and former board member of the Monterey Bay Salmon & Trout Project, I would like to weigh in on your proposal to discontinue the monitoring of the steelhead population in the San Lorenzo River for the 2019-2020 season. It is my understanding that consistent monitoring of the steelhead population in the San Lorenzo has been successfully conducted for as long as the last 20 years, providing valuable data concerning the status of these federally protected species. Why, at this point in time in particular, you would decide to curtail these efforts, is almost incomprehensible.

This last winter the San Lorenzo sustained one of the highest flow years in recent history. This coupled with the fact that the year before in 2017- 2018 was extreme drought conditions, I would think that it would be paramount to continue your monitoring efforts, if for no other reason, than to compare and contrast two polar opposite seasonal conditions and their effect on the population of salmonids. The juvenile production and number of returning adults on an extremely high water year compared to that of years of drought would be invaluable information.

The fact that you already have consistent monitoring protocols in place conducted by reliable, independent professionals who have delivered consistent results for decades assures you the continuity essential for valid data. To disrupt that now would be a monumental mistake.

The Monterey Bay Salmon & Trout Project has just submitted their HGMP(Hatchery Genetic Management Plan) for review in hopes of reestablishing the take of steelhead brood stock, not only to supplement the dwindling runs in the river, but also to provide eggs for classroom incubation for the Salmon & Trout Education Program. One of the requirements of the HGMP is that a consistent monitoring strategy be put in place in order for the plan to be approved. We were hoping to rely heavily on the work being done by the city, the Water Dist. and DF&W. to contribute to our monitoring efforts. Without this invaluable data there is a good possibility that our plan will be denied.

If your decision to eliminate your monitoring efforts in 2019-2020 is financially driven, I would urge you to consider the revenue that the sport fishing for our local steelhead brings into our county. Even considering the short duration of the season, it is estimated, using a formula provided by DF&W, that Steelhead fishing brings in over a million dollars in revenue into the county. Know that if you ever needed volunteers to help with this effort, just from The Santa Cruz Fly Fishermen and The Monterey Bay Salmon & Trout Project membership alone, we would be able to supply all of the assistance you would need.

Whatever rationale you've used to make your decision to stop the monitoring, I would highly urge you to reconsider. These fish are federally protected for a very good reason. Their numbers have dropped drastically over the course of my life

time and I can only hope that with the combined efforts of all involved that there will still remain a viable run of fish for my grandkids to enjoy. Thanks for your consideration.

Barry Burt
SCFF & MBSTP

Sent from my iPhone